



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Section I - Notice Inviting Tender (NIT)

1. Notice Inviting Tender (NIT): Mazagon Dock Shipbuilders Limited (MDL), Mumbai is India's leading Shipbuilding Company with ISO 9001:2015 accreditation. Mazagon Dock Shipbuilders Limited, invites offer in two bid system i.e. Part-I (Techno Commercial Bid) and Part-II (Price Bid) from Indian bidders through online bidding via MDL e-procurement portal (<https://eprocuremdl.nic.in>) for Item /Services.
2. **The Tender Document.**
 - i. **Bidders must read the complete 'Tender Document'.**
 - ii. Bids must be uploaded till the deadline for submission of bids. Bidders in their own interest are requested to upload their bids well in advance of tender closing date to avoid the last minute difficulties in uploading the bids. Request for extension, if at all to be made, shall be forwarded at least 3 working days in advance to the tender closing date / time (excluding tender closing date) with proper reasoning. **However, the extension would be granted by MDL on merit of the case at MDL discretion and would be binding on all bidders.**
3. **Eligibility Criteria for Participation in this Tender:** Subject to provisions in the Tender Document being limited tender, participation in this Tender Process is open for all nominated bidders.
4. **Submission of Bids:** No manual Bids shall be made available or accepted for submission (except for originals of scanned copies as per sub-clause above). Bidder must comply with the conditions of the eProcurement portal, including registration, compatible Digital Signature Certificate (DSC) etc. In the case of downloaded documents, Bidder must not make any changes to the contents of the documents while uploading, except for filling in the required information.
5. **Disclaimers and Rights of MDL:** The issue of the Tender Document does not imply that MDL is bound to select bid(s), and it reserves the right without assigning any reason to
 - (a) reject any or all of the Bids, or
 - (b) cancel the tender process; or
 - (c) abandon the procurement of the Goods/Services; or
 - (d) issue another tender for identical or similar Goods/Services.

Note: Please refer to appended TIS and the complete Tender Document for further details.

Tender Inviting Authority



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Section II - Tender Enquiry Form (TEF)

(This is an illustrative format, same may be amended/modified as per the requirement)

Integrity Pact shall be signed on each page by the authorized representative of the bidder and submit/upload along with the Part-I bid, failing which the bid shall be categorically rejected without giving further any opportunity .Hence bidder to ensure submission of above document complete in all aspect on NIC portal only.

Bidder to note that the shortfall information/documents shall be sought only in case of historical documents which pre-existed at the time of the tender opening i.e. submitted along with original bid and which have not undergone change since then.

1. **Description & Scope of Supply / Work: Please refer the Section V of Para A**
2. **Validity Period of Offer:**
 - (a) Bid / Offer shall have the validity period of **60 days** from the tender closing date.
 - (b) In case the day up to which the bids are to remain valid falls on/ subsequently declared a holiday or closed day for MDL, the bid validity shall automatically be deemed to be extended up to the next working day.
3. **Contract Duration, Work Schedule & Mobilization:** Contract Duration: The proposed Contract shall be valid for duration of 120 calendar days from the date of placement of order or as per start date intimation by user/Plg refit dept. Tentative refit duration is 01.03.2024 to 29.06.2024. Actual start date of work will be confirmed by Plg-Refit dept. Any work released till the completion of contract shall be carried out by the contractor.
4. **(A) Submission of Offer in Two Bid System:** Offer must be submitted in two parts as follows:
 - a) **Part I (Techno Commercial Bid):** The bidder shall ensure following are essentially submitted in the Part-I bid as applicable:
 - (i) Technical & Commercial offer.
 - (ii) **Integrity Pact (IP) Signed (On each page).**
 - (iii) Valid MSME Udyam Certificate, MDL Registration Certificate & ISO Accreditation Certificate.
 - (iv) Taxes and duties certificate for which they are registered.
 - (v) Acceptance of Tender terms & General Condition of Contract (GCC).
 - (vi) Declaration of Local Content, preference for MSE Order 2012 / PPP Order 2017 for purchase preference.
 - (vii) Compliance Certificate w.r.t. Land Border Clause
 - (viii) Unique GeM Seller ID.
 - (ix) Blank rate sheet indicating quoted/not quoted against each line item, tax percentage, type of taxes.
 - (x) Bank details for payment by RTGS/NEFT in the format enclosed.
 - (xi) Bidder contact details as per attached annexure" Contact Details of the bidder.
 - (xii) Additional documents as applicable to this tender.

Note: In any case, prices are not to be mentioned in Part-I bid.
 - b) **Part-II (Price Bid):** Prices for each of the listed items has to be uploaded strictly in the prescribed format provided in the e-procurement portal. Bids received other than this given format will be **rejected**.

Note:

 - (i) If, in the price structure quoted for the required goods, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly;
 - (ii) If there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (iii) If there is a discrepancy between words and figures, the amount in words shall prevail.
- (iv) For inseparable (overall lowest) requirement, bidder must quote for all line items.

5. **Bid Modification:** Modification in bids, if any, is to be made by bidders prior to the tender closing date & time.

6. **Bid Rejection Criteria:**

- (a) **Categorical rejection criteria:** The following conditions / deviations are non-negotiable and therefore any bid falling under these conditions / deviations shall be summarily rejected. Bidders to note that they shall not be provided any opportunity to rectify these conditions / deviations post Part-I bid opening:
 - (i) Bids received after tender closing date and time.
 - (ii) Bids received other than through e-portal (NIC).
 - (iii) Bidders who are debarred under PPP MII order 2017, GeM, CPPP including Tender holiday issued by MDL.
 - (iv) Bids received without Integrity Pact duly signed by the bidder on each page.

- (b) **Liabe rejection criteria:** Non-compliance/non-acceptance to any of the terms and conditions of the tender other than following shall render the bid liable for rejection;
 - (i) Clause mentioned under loading criteria

Note:

Equal time and opportunity for submission of deficient techno-commercial documents and clarification shall be given to the bidders. Bidders are required to submit such documents / clarifications within the duration / date stipulated by MDL failing which their bids will be rejected.

7. **Performance Security (PS):**

- (a) Separate Performance Security for an amount equal to 5% of each order/contract value (excluding taxes, duties) payable in Indian Rupees shall be submitted.
- (b) Performance Security is to be furnished within 25 days after notification of the award of contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.
- (c) Performance security may be furnished in the form of NEFT / Demand Draft / Pay order / Bank Guarantee / Insurance Security Bond / e-Bank Guarantee in favor of Mazagon Dock Shipbuilders Limited, Mumbai from the list of Banks approved by SBI / Canara Bank published on MDL website.
- (d) PS can also be remitted online through MDL website: <https://www.mazagondock.in/OnlinePayment.aspx>.

Or

one can find Online payment tab on MDL website home page as under:

- Go to www.mazagondock.in
- Click on Online payment tab available on home page.
- 4 option viz. Career, Tender, Security, Scrap/ Disposal will be available.
- Click on the Tender tab and make the payment online using Debit cards, Credit Cards, Net banking, BHIM/ UPI etc. after filling the required details.

- (e) Further, the bidder should specifically mention the details of company name as well as nature of remittance, tender number/order number etc. in the text/narration fields of Bank's NEFT remittance in order to identify the same. The duly filled & signed copy of annexure is to be submitted to respective dealing commercial executives.
- (f) In cases where the supplier / contractor has not submitted the PS and already commenced supply / services, dealing commercial executives shall advice Finance department for withholding the PS from his bills if any. In such case, interest is to be recovered for the period starting from 26th day of transmission / notification of order/contract by any mode and amount involved at the relevant rate of interest. For foreign supplier, the interest will be EUROBOR/LIBOR plus 2%. For Indian suppliers, the interest will be SBI BPLR plus 2%.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (g) In case of GTE tenders, the performance security should be in the same currency as the contract and must conform to Uniform Rules for Demand Guarantees (URDG 758) - an international convention regulating international securities.
- (h) PSU may submit Indemnity bond in lieu of Performance Security Bank Guarantee in case of single tender only.
- (i) PSBG shall be valid for validity period of PSBG plus four weeks for settlement of claim.
- (j) The performance security will be forfeited and credited to MDL's account in the event of a breach of contract by the contractor. It will be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.
- (k) Where the duration of contract is very long and banks are unwilling to issue BGs for long duration, rolling bank guarantee towards performance security can be submitted where it will be valid for at least one year with claim period of three months within which the same can be extended for further period by amendment.
- (l) Performance security on reducing balance can be accepted when the contract period extends beyond one year. This will be effective on completion of one year and thereafter on six monthly / yearly basis.
- (m) No exemption can be granted to any unit including MSME, SSI units and MDL Registered Supplier.
- (n) In case of failure to submit performance security deposit by the supplier within 25 days of transmission / notification of order by any mode, MDL reserves the right to cancel the order and invoke the risk purchase clause.
- (o) In the event of defects due to poor workmanship leading to non-performance of the Equipment/Item and bidder failure to attend the defects within a reasonable period of time, the PSBG will be encashed by MDL. MDL's decision in this regard shall be final and binding on the supplier / contractor.
- (p) In the event of postponing of delivery of deliverables/services or extension of guarantee desired & sought by MDL, the Performance Security has to be extended and its amendment charges shall be borne by MDL.

8. **Warranty/Guarantee:** Please refer Para A, Section V, SOW clause No 9.

9. **Currency of Bidding:** Indian Bidders shall quote in Indian Rupees only.

10. **Pricing:**

- i) The prices quoted shall remain firm and fixed during the currency of the order / contract unless agreed otherwise by MDL.
- ii) Quoted price shall include equipped man day charges along with accessories, consumables, operators, etc. for the execution of work as per tender terms & conditions. Additionally, bidder while quoting should consider the all costs such as labour, minimum wages, hike in the minimum wages, transportation, equipment, all incidental expenses, travelling, lodging, boarding, and administrative, mobilizations, demobilizations, etc.
- iii) Quantum of the work is tentative. Considering the priority, Project requirement, time constraint, work progress and contractor's performance, the quantum of work allotted to the contractor may vary or reduce and under such circumstances no compensation would be payable.
- iv) The payment shall be based on actual work completed in line with tender terms and conditions.
- v) **GROWTH OF WORK CLAUSE:** MDL shall be at liberty to place additional work to the extent of 15% of contract value at the same terms and conditions of the contract within contractual delivery period and bidder shall have to honor it. Such additional work shall be entrusted to the contractor through a separate Order to that effect or through an amendment to the Order. In any case, the contractor should not undertake any (additional) work beyond the Contractual period without an order to that effect from MDL. This additional 15% work is considered beyond the total Tendered quantity. The contract period may be extended by 3 months with same terms and conditions of this contract.

11. **Tie Breaker:** When multiple bidders quote same price for particular item(s)/services under such situation, following action in given sequence shall be done:

- (a) In case of divisible, 50-50 Qty to be given to each.
- (b) In case of non-divisible, supplementary bid to be obtained.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (c) In case of both divisible and non-divisible, lottery option to be exercised after above options are not conclusive.

12. Taxes & Duties:

- (a) Bidders must clearly mention the applicable Taxes & Duties in the rate sheet enclosed in the tender. The item-wise rates (i.e. Basic + Packing, Forwarding, Freight & Insurance) quoted in the Rate sheet should exclude Taxes, Cess & Duties. Bidder should indicate GST rates as applicable separately under each of the head in the same rate sheet, which will be paid extra based on tax invoice to the extent applicable.
- (b) Supplier / contractor will not be entitled to any increase in rate of taxes occurring during the period of extended delivery completion schedule if there is delay in supplies / completion attributed to him. However, if there is a decrease in taxes, the same must be passed on to MDL.
- (c) Income tax applicable on cost of services rendered in India in relation to the contract, shall be payable by bidders.
- (d) TDS (GST) shall be carried out as per the existing Laws and Acts.
- (e) **Goods and Services Tax (GST):**
- (i) The prevailing rate of GST is to be indicated in your blank rate sheet in Part-I.
- (ii) For MDL's GST number, please visit our website. MDL's GST Number is **27AAACM8029J1ZA**.
- (iii) Bidder shall mention MDL GSTIN while invoicing and avoid any data entry error on GST portal.
- (iv) Bidders shall mandatorily mention their GST number in their offer.
- (v) Bidders shall mention the HSN (Harmonized System of Nomenclature) code for the quoted items and services in their offer. These codes must be in accordance with GST law and responsibility of specifying correct HSN codes for goods &/or services is that on the bidder. MDL shall not be responsible for any error in HSN no. specified by vendor. However, if any penalty is levied on MDL or any loss of ITC to MDL occurs or any delay in availing ITC by MDL occurs due to such error, vendor shall reimburse such loss after intimation by MDL or the amount shall be recovered from the SD or any outstanding payments to the vendor.
- (vi) Bidder must mention HSN numbers in invoices as reflected in the order. These codes must be in accordance with GST law.
- (vii) If bidder is registered under GST, bidder should note that successful bidder shall ensure timely submission of invoice and file all applicable returns under GST Law in the stipulated time & any losses of ITC to MDL arising due to delay in submission of invoice or delay in filing will be recovered from their invoice wherever MDL is eligible to avail tax credit. Any default towards payments of tax and / or uploading of monthly returns by supplier / contractor, MDL retains right to withhold payments towards tax portion until the same is corrected & complied by the supplier/ contractor with the requirement of GST along with satisfactory evidence.
- (viii) Original invoice to be submitted to Bill Receipt Centre at MDL gate and a copy of the invoice to be submitted to the respective stores.
- (ix) If the GST rating of supplier / contractor on GST portal/ Govt. website is found to be negative/ blacklisted, the MDL reserves the right to reject the offer of such bidders. Similarly, on post placement of the contract/order, MDL shall reimburse GST to the vendor only after he makes the payment of GST and fulfils all requirements as per GST law for successful GST along with penalties/interest, if any, incurred by MDL.
- (x) In case, MDL is unable to avail ITC, supplier/ contractor at their own cost shall rectify the shortcoming in the returns to be filed immediately thereafter. Further, if the ITC is delayed / denied to MDL/ reversed subsequently as per GST laws due to non/ delayed receipt of goods and/ or services and/ or tax invoices or expiry of timelines prescribed in GST Laws for availing ITC, nonpayment of taxes or non-filing of returns or any other reason not attributable to MDL, such amount shall be recoverable from supplier / contractor along with interest and penalty as levied on MDL under GST Law for the number of days the ITC was delayed. This amount shall be recovered from the SD or any outstanding payments. If the short coming is not rectified by supplier / contractor and MDL ends up in reversal of credits and / or payments, supplier / contractor is fully liable for making good all the loss incurred by MDL as a result of default.
- (xi) If bidder is registered under GST, Suppliers shall be responsible for the financial and non-financial consequences in case of non-compliance of GST provisions/requirements/timelines on their part.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

13. Payment Terms:

Advance payment is not applicable for this tender.

- (i) On receipt of Invoice, 100% of Payment shall be made within 15 days of completion of services subject to acceptance of services on receipt of performance security valid up to contract validity plus 60 days' claim period as relevant and as reduced by any deductibles and / or the amount leviable towards liquidated damages, if any plus 100% taxes, duties etc. as applicable.
- (ii) Payment of the balance of the value of the supplies/services may be payable and as reduced by any deductibles and / or the amount leviable towards liquidated damages, if any, on submission & confirmation of Performance Security of equivalent amount valid up to warranty period plus 60 days' claim period.
- (iii) **Part Payment:** Part Services, Part Payment shall be accepted.
- (iv) Monthly bills should be preferably submitted within four weeks of certification of Work Completion Certificate 'WCC' along with Service entry through SAP system from user department.

14. Payment Mode & Documents:

(a) All the payments to indigenous bidders due shall be made through Real Time Gross Settlement (RTGS) / National Electronic Fund Transfer (NEFT) by MDL.

(b) Documents for Payments:

- (i) Set of Original + 2 Copies of signed Invoice showing item / activity wise prices as per the Contract / Order.
- (ii) Work completion certificate (i. e. Service Entry through SAP system) certified by MDL executive of User Department of rank of CM or above
- (iii) Certificate issued by MDL confirming that the work is completed in time and no penalty is applicable OR in case of delays, admissible amount of penalty will be specified by MDL in this certificate for reduction of equal amount from Contractor's invoice. (MDL will issue this certificate generally by E-Mail immediately on completion of the work.

Note: Invoices should be submitted at "Receipt Section" adjacent to the ARS Punching Section, South Yard MDL.

(c) Alternate MSME vendor payment through TReDS:

- i) In order to address the financial needs of MSME firms, GoI has introduced a platform for facilitating the financing of trade receivables of MSMEs from buyers, through multiple financiers which is termed as Trade Receivables Discounting System (TReDS). At TReDS, auctioning of invoices at competitive & transparent environment is done by financiers based on Buyer's credit profile.
- ii) MDL is registered on the "Invoicemart" TReDS platform and M1xchange of M/s Mynd Solutions Pvt. Ltd.
- iii) MSME bidders desirous to receive payments through TReDS platform may avail the facility if they are already registered on
 - a) "Invoicemart" TReDS platform or by registering on it.
Contact details at "Invoicemart" TReDS platform are as below:
022 6235 7373 and a new mail id service@invoicemart.com.
 - b) "M1xchange" TReDS platform or by registering on it.
Contact details at "M1xchange" TReDS platform are as below:
+91 9920455374 Ms Ashwathi Jayandran email id:
ashwathi.jayandran@m1xchange.com
+91 8839915724 Ms Priyanka Shah email id prinyaka.shah@m1xchange.com

(d) **E Invoice:** Wherever GST is applicable, payment will be released against e-Invoice, or Invoice accompanied with Vendor's Self Declaration that " We do not fall under the category of registered persons notified under Rule 48(4) of the Central GST Rules, 2017 and we are not required to comply with e-Invoicing provisions under GST Act, as our aggregate turnover in any preceding financial year from 2017-18 onwards has not exceeded Rs. 5 Crores as per GST act.

15. Work Done Certificate (WDC) / Completion Certificate (WCC):



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- a. Work Completion certificate (WCC) shall be issued on Satisfactory completion of respective work with inspection and acceptance reports. Agency responsible to issue WCC shall be Planning/User dept. (Chief manager & above).
- b. The WDC shall include cumulative statement of jobs carried out till last WDC. The necessary service entry shall be made in SAP system by the WDC certifying authority & will be submitted to the contractor for further invoicing. The WDC shall bear relevant Service Entry Sheet No., PO No. and respective item Sr. No., sub service line item of the PO.
- c. The WDC must clearly mention the mutually agreed completion schedule and actual work done schedule for start date & end date.
- d. In case of delays, the duration along with numbers of delayed days shall be specified in respective WDCs to invoke LD clause and effect recoveries from sub contractor's invoice.

16. **Inspection:** Please refer Para A, Section V, SOW clause No 8.

17. **Loading Criteria:**

Deviations sought by the bidder shall be loaded on the bidder/s quoted prices during price evaluation by MDL for ranking of bids to judge L1, as under.

- (a) Varied payment terms quoted by indigenous bidders as compared to the terms stated in the Tender document shall be normalized by adopting the Benchmark Prime Lending Rate of State Bank of India plus 2% thereon on the amount (s) at variation and / or for the period (in no. of days) at variation and LIBOR / EURIBOR rates plus 2 % or 6% whichever is higher in case of foreign bidders.

18. **Ranking of Bids:** Tender line items are inseparable and non-divisible in nature.

- (a) Ranking of bids shall be done by considering following factors:
 - i. The comparison of the responsive tenders shall be on total outgo on Least Cost Net of Credit Basis (LCNC), for the procurement to be paid to the supplier or service provider, including all elements of costs, duties, levies, freight, insurance etc. excluding GST (where ITC is available). Therefore, it should normally be on the basis of CIF/ FOR destination basis, duly delivered, commissioned, as the case may be.
 - ii. The applicable loading towards deviations shall be loaded for ranking purpose
- (b) Discount given, if any, by the bidders, after the last date for submission of the bids but before opening of the price bids, will not be considered for determining the ranking of bids but will be considered after the said bidder is adjudged as L1.
- (c) On-line ranking visible to the bidders after opening Part-II price bid is without loading parameters. However, the L1 bidder will be evaluated offline by applying all applicable loading parameters as per tender and clarifications during techno-commercial scrutiny / TNC meeting.
- (d) Loading/Ranking will be done on original submitted bid at the time of closing of tender. However, in case MDL invites supplementary price bid from technically qualified bidders, then same will also be considered while ranking of bids.

19. **Price Negotiation:** Usually, there shall be no price negotiations. However, MDL reserves its right to negotiate with the lowest acceptable bidder (L-1), who is techno-commercially suitable and on whom the contract would have been placed but for the decision to negotiate.

20. **Public Procurement Policy (Preference to Make In India) Order 2017:** The Government of India has issued revised Public Procurement (Preference to Make in India) order 2017 on 16th Sep' 2020 as part of its policy to encourage "Make in India" and promote manufacturing and production of goods and services in India with a view to enhancing income and employment. Subject to the provisions of this order and to any specific instructions issued by Nodal Ministry or in pursuance of this order, Purchase Preference shall be given to local suppliers in all the procurements undertaken by MDL in the manner specified below:

(a) **Aspects of 'Preference to Make in India':** The following terminology / definitions used in the policy is enumerated below and applicable to the tender:

- (i) **Local content:** means the amount of value added in India which shall be the total value of item (goods, services or works or their combination) under procurement (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

duties) as a proportion of the total value in percent. Different definition of Local Content may be specified by the Nodal Ministry for items assigned to them, which will prevail over above.

Note:

- a. The local content can be increased by vendors through partnerships, cooperation with local companies, establishing production units in India or Joint Ventures (JV) with Indian suppliers, increasing the participation of local employees in services and training them.
- b. Any participating bidder shall not be Joint Venture/Consortium; except in case of manufacture under license/technology collaboration agreements with phased indigenization under the PPP Make-in-India Policy 2017.

- (ii) **Class-I Local Supplier:** means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content of 50%.
- (iii) **Class-II Local Supplier:** means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content of 20% but less than that prescribed for "Class-I local supplier".
- (iv) **Non-Local Supplier:** means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than that prescribed for "Class-II local supplier" under this order.
- (v) **L1:** means the lowest tender or lowest bid or lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.
- (vi) **Margin of Purchase Preference:** means the maximum extent to which the price quoted by a **Class-I Local Supplier** may be above the L1 for the purpose of purchase preference. The margin of purchase preference shall be **20%**.

Note:

- (i) Procedure for determination of L1 price shall be as per tender clause 'Ranking of Bids'.
- (ii) Purchase preference shall be given to **Class-I local supplier only**. No Purchase Preference will be given to Class-II or Non-Local Suppliers.
- (iii) If Price/s of all Class-I local supplier/s in a tender is more than 20% of L1's price, no purchase preference shall be applicable.

(b) **Eligibility Criteria to bid:**

Class I local Supplier are eligible to bid for this tender (Class II & Non-Local Supplier shall be categorically rejected)

Minimum local content: The "local content" requirement to categorize a supplier as "Class-I local supplier" is minimum 50%. For "Class-II local supplier", the "local content" requirement is minimum 20%.

(c) **Purchase Preference(PP):**

- i. Purchase preference shall be given to only "Class-I Local Supplier" (Class II Local Supplier are not eligible for purchase preference) in procurements undertaken in the manner specified in the succeeding sub-paras:
- ii. The Class-I local suppliers, under PPP-MII Order, participating in any government tender, may or may not be MSEs, as defined under the MSME Act. Similarly, MSEs participating in any government tender, may or may not be Class-I local suppliers. Suppliers may be categorized in following four broad categories for consideration or applicability of purchase preference:

Category	Terminology
Supplier is both MSE & Class-I local supplier.	"MSE Class-I local supplier"
Supplier is MSE but not Class-I local supplier.	"MSE but non-Class-I local supplier"
Supplier is not MSE but is Class-I local supplier.	"Non-MSE but Class-I local supplier"
Supplier is neither MSE nor Class-I local.	"Non-MSE non-Class-I local supplier"



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- iii. In the procurement of services which are covered by para above and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone (Items covered under Para 3A(c) of PPP-MII Order, 2017) and both MSEs as well as Class-I local suppliers are eligible for purchase preference Purchase preference shall be accorded as under:
- i) L-1 is "MSE Class-I local supplier": Contract shall be awarded to L-1.
 - ii) L-1 is not "MSE Class-I local supplier" but the "MSE Class-I local supplier" falls within 15% margin of purchase preference. Purchase preference shall be given to lowest quoting "MSE Class-I local supplier". If lowest quoting "MSE Class-I local supplier" does not accept the L-1 rates, the next higher "MSE Class-I local supplier" falling within 15% margin of purchase preference is to be given purchase preference and so on. If all "MSE Class-I local supplier" do not accept L-1 rates, then Para 21(c)(iii)(b) shall be followed.
 - iii) If conditions mentioned in sub paras 21(c)(iii)(a) and 21(c)(iii)(b) above are not met i.e. L1 is not "MSE Class-I local supplier" and "MSE Class-I local supplier" is not eligible to take benefit of purchase preference as per PPP-MSE Order or all "MSE Class-I local supplier" do not accept L-1 rates, the contract is to be awarded / purchase preference to be given in different possible scenarios as under:
 - a) L-1 is "MSE but non-Class-I local supplier" or "Non-MSE but Class-I local supplier": Contract be awarded to L-1.
 - b) L-1 is "Non-MSE non-Class-I local supplier": Firstly, purchase preference shall be given to eligible MSE as per PPP-MSE Order. If MSEs not eligible or does not accept then purchase preference to be given to eligible Class- I Local supplier as per PPP-MII Order. If Class-I Local supplier is also not eligible or does not accept then contract be awarded to L-1.

(d) **Declaration/Verification of Local content:**

- (i) Participating bidders to indicate the percentage of local content (i.e. value added in India) along with the details of location/s where the local value addition is made, in their bids, item wise or tender wise. The indicated local content percentage shall decide categorization of the vendors as "Class-I Local Supplier" / "Class-II Local Supplier" / "Non-local Supplier". All bidders should declare that the item and service offered meets the minimum local content & indicate its percentage in their offer which shall meet or excel required local content specified in tender. This declaration is necessary even if Custom Duty Exemption and / or ERV (if applicable) are not being sought. Certification as under is to be submitted mandatorily in technical Offer-Part-I bid.

Self-certification by Chief Financial Officer or Other legally responsible person nominated in writing by the Chief Executive or Senior Member / Person with Management Responsibility of Corporation / Partnership / Individual. However, in cases of procurement for value in excess of Rs. 10 Crores, the bidders shall provide a certificate from statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of supplier other than companies) giving the percentage of local content.
- (ii) Bidders to be noted that once the declaration / certification is committed at tender submission stage, the same cannot be altered subsequently at technical negotiation stage or after award of contract otherwise would be treated / considered as false declaration by bidder and necessary action shall be initiated as per tender clause '**Debarment of bidders / suppliers**' of the said Order for debarment.
- (iii) Declared Local Content shall be the basis for categorization of the vendors and tender evaluation. However, MDL reserves the right to undertake detailed examination of declared local content and may call vendor to submit relevant documents.
- (iv) In cases where MDL received the complaint from any vendor or person, along with the fees prescribed below, verification of Declared Local Content shall be carried out by seeking additional info as deemed necessary and the bidders (including unsuccessful bidders) against the tender shall be obliged to furnish the necessary documents. Failing to do so, the vendor may invite penal action as per the provisions of the Order. If MDL possess the capability, then



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

it shall perform the verification. However, if in the opinion of MDL matter needs to be dealt at higher level, then the complaint shall be referred to Nodal Ministry and their fees / expenses / charges applicable as per the Nodal Ministry, if any, shall be borne by the complainant. MDL is authorized to prescribe fees for handling complaints under revised PPP MII 2017 Order. The fees for filing a complaint under the order shall be Rs. 10,000/- per case. The complaint shall be filed to the Chairman, Public Grievance Cell. The fee shall be deposited by complainant in MDL's Account by NEFT.

- (v) On scrutiny of offer, if all the bidders participating in the tender happen to have either not submitted the declaration certificate or not declared / specified the local content percentage in the declaration certificate or specified local content lower than the minimum local content requirement as per the tender, the subject tender shall be cancelled & matter shall be taken up with Ministry, by the user department, as per the procedure indicated at above Purchase Preference Para or as amended by MoD / DPIIT / DoE.
- (vi) On opening of the price bids, if it is identified that there is difference in local content declaration made & local content percentage as per price quoted is now not meeting (i.e. lesser than) the specified tender requirement (i.e. only on the quoted price without any loading) then such bidder shall be disqualified and shall not be considered for ranking purpose. The bid would be treated / considered as given false declaration and necessary action for debarment shall be initiated.

Note: The original of the uploaded copy of Local Content Declaration shall be received in MDL within seven MDL working days from the tender closing date. Not receipt of the same is a "liable for bid rejection" criteria.

(e) **PPP MSE Order 2012:**

Purchase Preference under PPP MSE Order 2012 shall prevail over Purchase preference under PPP MII Order 2017. Bidders to be noted that, in case of participation of MSE and Local Supplier against a same tender, MSE bidder will be given preference over other bidders to match with L1 bidder provided it has chosen Purchase Preference under PPP MSE Order 2012 in the tender & it is meeting Purchase Preference Criteria as per Public Procurement Policy for MSEs Order 2012. Bidder has to indicate his choice for Purchase Preference which will not be permitted to be changed once bid is opened.

Purchase Preference under PPP MSE Order 2012 shall prevail over Purchase preference under PPP MII Order 2017 and Purchase preference shall be accorded as per para 27(c)(a).

(f) **Price negotiation & contract placement:**

- (i) MDL has right to negotiate with L1 bidders on the quoted prices. However, it shall be ensured that Local Content percentage as declared by the vendor is maintained or increased but not reduced.
- (ii) After the contract is awarded and the supplies are completed, the supplier shall provide a "Local content certificate" (in the format provided at the time of PO placement) declaring the actual Local content percentage achieved while executing the contract. In case of failure to provide Local Content Certificate for the executed order within reasonable time, the issue be referred for debarment.

Note: In cases of procurement for value in excess of Rs. 10 Crores, the supplier shall provide a Local Content certificate (in the format provided at the time of PO placement) from statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of supplier other than companies) giving the percentage of local content.

- (iii) Supplier shall be intimated that the supporting documentation towards realization of committed Local Content as per the contract / order terms & conditions shall be maintained for a period of seven years from the date of completion of the contract for audit purpose. Nodal Ministry may constitute committees with internal & external experts for independent verification of self-declarations and auditor's / accountant's certificates on random basis and in the case of complaints.

Note: The Actual Local Content Certificate as above, shall be mandatorily submitted by the successful bidder post execution of PO.

(g) **Debarment of bidders / suppliers:**



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (i) False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of GFR 2017 for which a bidder or its successors can be debarred for up to 2 years as per Rule 151(iii) of GFR 2017 along with such other actions as may be permissible under law.
- (ii) A supplier who has been debarred by any procuring entity for violation of said Order shall not be eligible for preference under said Order for procurement by any other procuring entity for the duration of debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in such a manner that ongoing procurements are not disrupted.

(h) **Reciprocity Clause:** Entities of countries which have been identified by the nodal Ministry/ Department as not allowing Indian companies to participate in their Government procurement for any item related to that nodal Ministry shall not be allowed to participate in Government procurement in India for all items related to that nodal Ministry/ Department, except for the list of items published by the Ministry/ Department permitting their participation.

21. **Integrity Pact (IP):** The Integrity pact essentially envisages the agreement between prospective vendors / bidders & buyers committing the person/officials of both the parties not to exercise any corrupt influence on any aspects of the contract. Only those vendors/bidders who enter into such an integrity pact with the buyer would be competent to participate in the bid. Therefore, non-acceptance and non-submission of IP by the vendors/bidders shall be categorically rejected and no further communication in this regard will be entertained by MDL. The format of integrity Pact is enclosed with tender documents. IP shall be submitted on plain paper.

The 'Integrity pact' dully filled as per enclosed format to be submitted along with the offer. Bidders to ensure that each page of Integrity pact shall be duly signed by the bidder. Non-submission of Integrity Pact by the bidders duly signed on each page along with Part-I bid shall be categorical rejected. Bidders shall send original IP immediately to MDL post submission of bid.

Independent External Monitors (IEM): The following Independent External Monitors (IEMs) will have the power to access the entire project document and examine any complaints received by him. In case of any change in IEMs it will be informed accordingly.

For any administrative enquires and clarification on tender, bidders shall contact Commercial Dealing Executive. In case of issues related to Integrity Pact (IP) please contact Independent External Monitor (IEM) whose details are as below:

- i) Mr. Subhash Chandra
Email id: subhash59@hotmail.com
- ii) Mr. P V Rao
Email id: pasupuletirao@yahoo.co.in

22. **Freak Low Bid:**

- (a) If the quoted L-1 rate is less than estimate by more than 40% w.r.t. estimate and if the quoted L-1 rate is less than L2 by more than 30% w.r.t. L2 then such quote is shall be treated as freak low quote.
- (b) In case of freak low quote, meeting may be held with L-1 bidder to ascertain whether the quoted prices are "workable". The proper justification shall be given by the bidder.

23. **Option Clause:** MDL the right to increase/decrease the ordered quantity by up to 50 % at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

24. **Book Examination Clause:** In case it is found to the satisfaction of the BUYER that the seller has engaged an Agent or paid commission or influenced any person to obtain the contract as described in clauses relating to Agents/Agency commission and penalty for use of undue influence, the seller, on a specific request of the buyer shall provide necessary information/Break-up data/ inspection of the relevant financial documents/information.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

25. **Progress Monitoring & Review Mechanism:** The required dates are indicated in tender. On placement of order a kick off meeting is to be held in MDL to chalk out the sequence between MDL Refit Plg, User, Coast guard etc. as per MDL discretion and priority of the activities and the deliverables in line with the prevailing construction status of the ship. In this meeting, a progress monitoring team shall be constituted comprising vendor's representative engineer, MDL's executives (one each from Planning, Design and Ship Manager). This team shall carry out periodic reviews (initially quarterly followed by monthly reviews) to decide and chalk out the detailed sequence and priority of the completion of work and deliverables. The vendor would have to adhere to the recommendations and decisions of the said team while executing the work.
26. **Hindrance Register:** All hindrances with date of occurrences and removal shall be noted in the Hindrance Register. The Hindrance Register shall document reasons for the delay vis-à-vis the mutually agreed schedule. All hindrances such as delay in MDL Inputs (Drawings/Material/Documents/Services/ Inspection call), delay by TPI/Inspection Agency/Customer(Navy), delay on account of specialist services, non-performance by the contractor, delinquency by the vendor, force majeure or any other relevant reason shall be recorded. The Hindrance Register shall be signed by the reps. of both MDL as well as Contractor. Executive in the rank of Chief Manager and above shall be the nodal executive of the User Department.
27. **Public Grievance Cell:** A public grievance cell headed by Shri R. R. Kumar, ED (EY) has been set up in the company. Members of public having complaints or grievances are advised to contact above Authorities on Wednesday between 10.00 hours and 12.30 hours in his office at 3rd Floor, West Block, Mazagon Dock Shipbuilders Ltd or send their complaints / grievances to him in writing for redressal. Telephone No. is 23762106(MDL).
28. **Working on MDL Holidays:** Intimation for working on Saturday / Sunday / holidays if required, should be submitted 2 working days prior to the date of holiday indicating names of personnel to Personnel Department and Security through concerned Department.
29. **Breach of Obligation:** In case of breach of any obligation mentioned under, the bidder shall be disqualified / debarred from the bidding process for a period of one year from the date of notification;
- Bidder has withdrawn / modified / amended / impaired / derogated from the tender during the period of bid validity.
 - Bidder fails or refuses to execute the contract upon notification of acceptance of bid by MDL during the period of bid validity.
30. **Inter Project Service Transfer (IPST):** MDL reserve the right to transfer services from PO placed for one project to another project OR within project (One yard to another) OR between Divisions OR Project to Yard or vice versa provided the services are identical in nature with same rates.
31. **Free Issue Material:** Please refer Para A, Section V, SOW clause No 12.
32. **Land Border:**
- This clause is applicable from a country which shares a land border with India" for the purpose of this Order means: -
 - An entity incorporated, established or registered in such a country; or
 - A subsidiary of an entity incorporated, established or registered in such a country; or
 - An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - An entity whose beneficial owner is situated in such a country; or
 - An Indian (or other) agent of such an entity; or
 - A natural person who is a citizen of such a country; or
 - A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
 - Bidders from a country sharing land border with India shall Mandatorily requires registration with registration Committee by the Department for promotion of Industry and Internal Trade (DPIIT). Registration shall not be applicable for the bidders from those country to which the Government of



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

India has extended Line of credit or in which the government of India is engaged in development project.

c) Bidder shall comply orders issued by ministry of Finance department of expenditure Vide OM 6/18/2019- PPD dated 23 July 2020 & 24 July 2020 and OM No F.7/10/2021/-PPD(1) dated 23.02.2023.

33. **Restrictions Regarding Personnel Deployed:** The quoted rates shall not be less than the minimum wage fixed/notified by the State Government where service is performed and shall include all statutory obligations. However, bids without any element of cost over and above such minimum wage (or below it) shall be treated as 'Nil' price quotation and would be rejected. The service provider shall be liable for all kinds of dues payable in respect of all personnel provided under the contract and the MDL shall not be liable for any dues for availing the services of the personnel. The service provider should ensure that persons to be deployed are not alcoholic, drug addict and not indulge in any activity prejudicial to the interest of the MDL. The service provider shall ensure to get the Police verification for all the manpower deployed by them and the contractor should ensure that the manpower deputed should bear good moral character.
34. **Workmen Safety and Insurance:** The service provider shall alone be fully responsible for safety and security and insurance or life insurance of their personnel who is working on the operation and maintenance works. The service providers shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at their (or the Subcontractors', as the case may be) own cost but on terms and conditions approved by the MDL, insurance against the risks, and for the coverage, as shall be specified in the **SCC**; and at the MDL's request, the service providers shall provide evidence to the MDL showing that such insurance has been taken out and maintained and that the current premiums have been paid. The service provider shall provide and ensure sufficient protection gears like safety shoes, hand gloves, ladders, etc. are being used by their workers while carrying out works. The MDL shall not be liable for any compensation in case of any fatal injury/death caused to or by any man power while performing/discharging their duties/ for inspection or otherwise.
35. **Right to Reject any or all Bids:**
MDL reserves its right to accept or reject any or all Bids, abandon/ cancel the Tender process, and issue another tender for the same or similar Goods/Services at any time before the award of the contract. It would have no liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for such action(s).
36. **Cancellation of Procurement Process/ Rejection of All Bids/Re-tender:** If competition is lacking, then in such cases lack of competition shall not be determined solely on the basis of the number of Bidders. Even when only one Bid is submitted, the process may be considered valid provided following conditions are satisfied:
a) The procurement was satisfactorily advertised and sufficient time was given for submission of bids.
b) The qualification criteria were not unduly restrictive; and
c) Prices are reasonable in comparison to market values
The decision to cancel the procurement and reasons for such a decision shall be communicated to all bidders that participated in the procurement process. During Re-tendering, all participated bidders of earlier tender shall be informed.
37. **Corrigendum to Tender Document:** Before the deadline for submitting bids, MDL may update, amend, modify, or supplement the information, assessment or assumptions contained in the Tender Document by issuing a corrigendum. The corrigendum shall be published in the same manner as the original Tender Document. Without any liability or obligation, the Portal may send intimation of such corrigendum to bidders who have downloaded the document under their login. However, the bidders' responsibility is to check the website(s) for any corrigendum. Any corrigendum thus issued shall be considered a part of the Tender Document. To give reasonable time to the prospective bidders to take such corrigendum into account in preparing their bids, MDL may suitably extend the deadline for the bid submission, as necessary. After MDL makes such modifications, any Bidder who has submitted his bid in response to the original invitation shall have the opportunity to either withdraw his bid or re-submit his bid superseding the original bid within the extended time of submission.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

38. **Contacting MDL during the evaluation:** If a Bidder needs to contact MDL for any reason relating to this tender and/ or its bid, it should do so only in writing or electronically. Any effort by a Bidder to influence MDL during the processing of bids, evaluation, bid comparison or award decisions shall be construed as a violation of the Code of Integrity, and bid shall be liable to be rejected as nonresponsive in addition to other punitive actions for violation of Code of Integrity as per the Tender Document.
39. **Cartel Formation/Pool Rates**
It is possible that sometimes a group of bidders quote the same rate against a tender. Such pool/cartel formation is against the basic principle of competitive bidding and defeats the very purpose of an open and competitive tendering system. Such and similar tactics to avoid/control true competition in a tender leading to "Appreciable Adverse Effect on Competition" (AAEC) have been declared as an offence under the Competition Act, 2002, as amended by the Competition (Amendment) Act, 2007. Such practices should be severely discouraged with strong measures. In case of evidence of cartel formation, detailed cost analysis may be done by associating experts if necessary. Besides, suitable administrative actions can be resorted to, such as rejecting the offers, reporting the matter to trade associations, the Competition Commission or NSIC, etc., and requesting them, inter-alia, to take suitable strong actions against such firms. New firms may also be encouraged to get themselves registered for the subject goods to break the monopolistic attitude of the firms forming a cartel. Changes in the mode of procurement (GTE instead of OTE) and packaging/slicing of the tendered quantity and items may also be tried. A warning clause may also be included in the bid documents to discourage the bidders from indulging in such practices. Purchaser may also debar the tenderers indulging in cartel formation/collusive bidding/bid rigging for a period of two years from participation in the tenders of the Purchaser.
40. **Registration on Government E-Marketplace (GeM) Portal:**
Bidders shall mandatorily obtain the unique GeM Seller ID and submit the same to MDL prior to Price Bid opening. Requirement of unique GeM Seller ID is applicable only where the total amount of bid is more than Rs. 25 lakhs (inclusive of taxes etc.). Non-submission of Unique GeM Seller ID is under rejection criteria.
41. **Additional Instructions:**
- Bidder shall abide to all tender terms & conditions including General Conditions of Contract (GCC).
 - The bidder shall also abide to all statutory requirements, Official Secret Act 1923, Security and Safety Rules as per references, which are part of this tender. If contractors' employees are not adhering to the health, safety and environment norms and the contractors not equipping their employees with suitable safety gears, will be viewed seriously. For non-adherence to above will be levied as per extant guidelines of Security and Safety Rules prevailing time to time, to the contractor without prejudice to other rights to enforce the safety requirements.
 - MDL shall not be bound by any printed conditions or provisions in the sellers bid forms or acknowledgement of contract, invoices, packing list and any other documents which purport to impose any conditions at variance with the tender terms / final negotiated & accepted terms.
 - In case of improper on-line filling or non-submission of Acceptance formats for Tender Enquiry Form (TEF), GCC, it shall be presumed that all our tender terms & conditions are acceptable to the bidder.
 - Wherever the clauses in tender document (Part A) are getting repeated in GCC, then in such cases bidders are requested to refer the clauses in the tender doc (Part A) and offer their comments/acceptance, accordingly.
42. **E-Portal and E-Tender Guidance:**
- Submission of bids against e-Tenders:** The bidder is required to quote online on the e-Procurement website www.eprocuremdl.nic.in by the deadline, by submitting the Techno-commercial Bid & Price Bid in Electronic format only. The prices/quotes & a few declarations shall have to be entered/uploaded by the bidder online in the Tender's entry forms & other bid



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

documents' scanned/soft copies shall have to be uploaded as part of the bid. All bids should be digitally signed using DSC (as explained below).

- b) To participate in e-Tender (s), every bidder must register themselves on the ASP's website (*registration is free of cost*) & must possess a legally valid Class-IIB or above Digital Signature Certificate (DSC) as per IT Act-2000, using which they can sign their electronic bids. The DSC can be procured from any Certifying Authority (CA) authorized by Controller of Certifying Authorities (CCA) of Govt. of India.
- c) National Informatics Centre (NIC) have been appointed by MDL as the Application Service Provider (ASP).
- d) Online User Manual is available on the website for the guidance of users & for participating in the e-Procurement/ e-Tendering, the bidder must ensure having the requisite (IT) infrastructure at their office premises.
- e) For any further details of e tendering & digital signatures, please contact 0120- 4200462, 0120-4001002, 8826246593, eproc-support@gov.in.
- f) Problems in hardware/software, internet connectivity, system configurations, Browser setting etc., for whatsoever reason shall not be considered for extension of tender closing date and time.
- g) MDL will not be responsible for an error in downloading of tender documents from web by the bidders. The version appearing on MDL website will be considered final and authentic.

43. **Contact Details for Queries: All bidders are requested to get their queries, if any, clarified in advance (i.e. 7 days in advance to tender closing date) to avoid last minute delay.** In case of any clarifications regarding tender, bidders are requested to contact the following executives.

Department	Name of Executives	Contact No	Email
Technical	Mr. R. Murugan, CM/SM (Refit)	022 2376 3448	mramasamy@mazdock.com
	Mr. M C Waghmare, M(PLG-Refit)	022 2376 3325	mcwaghmare@mazdock.com
Commercial	Mr. Anant Garkhedkar, DGM/PE(C-Refit)	022 2376 3086	apgarkhedkar@mazdock.com
	Mr.Vivek Korde, M(C-Refit)	022 2376 3337	vrkorde@mazdock.com

44. We look forward to receive your most competitive and reasonable offer against this tender.

45. Pl note that The Terms and Conditions stipulated in TEF will supersede those in GCC as well as Scope of work in case of any conflicting provisions of subject Tender.

Yours faithfully,

For MAZAGON DOCK SHIPBUILDERS LIMITED

VIVEK KORDE, MANAGER (COMMERCIAL –REFIT)



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Section III - General Conditions of Contract (GCC) for Goods and Services

The word 'Purchaser' refers to MAZAGON DOCK SHIPBUILDERS LIMITED, (MDL), a Company registered under the Indian Companies Act, 1913 and it includes its successors or assignees.

The word 'Bidder' (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) means any legal entity such as firm(s) of Proprietorship / Partnership Firm / Limited Liability Partnership / Private Limited / Limited company / Society registered under Society's Act / Statutory Bodies/ Consortium/ Joint Venture etc. participating in a procurement process.

The word 'Owner' means the person or authority with whom Mazagon Dock Shipbuilders Limited (Purchaser) has contracted to carry out work in relation to which orders are placed by the Purchaser on the Bidder/Supplier/Contractor under this contract for supply or manufacture of certain items and would include Department of Defence Production, Ministry of Defence, Government of India, the Indian Navy, the Coast Guard and any other specified authority.

1. Tenets of Interpretation (Applicable for Goods and Services):

Unless where the context requires otherwise, throughout the contract:

- (i) The heading of these conditions shall not affect the interpretation or construction thereof.
- (ii) Writing or written includes matter either whole or in part, in digital communications, manuscript, typewritten, lithographed, cyclostyled, photographed, or printed under or over signature or seal or digitally acceptable authentication, as the case may be.
- (iii) Words in the singular include the plural and vice-versa.
- (iv) Words importing the masculine gender shall be taken to include other genders, and words importing persons shall include any company or association or body of individuals, whether incorporated or not.
- (v) Terms and expression not herein defined shall have the meanings assigned to them in the contract Act, 1872 (as amended) or the Sale of Goods Act, 1930 (as amended) or the General Clauses Act, 1897 (as amended) or of INCOTERMS, (current edition published by the International Chamber of Commerce, Paris) as the case may be.
- (vi) Any reference to 'Goods' shall be deemed to include the incidental Works/ Services also.
- (vii) Any generic reference to GCC shall also imply a reference to TEF as well.
- (viii) In case of conflict, provisions of TEF shall prevail over those in GCC.
- (ix) Any reference to 'Contract' shall be deemed to include all other documents (inter-alia GCC, TEF).
- (x) Any reference to any legal Act, Government Policies or orders shall be deemed to include all amendments to such instruments, from time to time, till date.
- (xi) Fall Clause shall be expressly applicable in the case of Rate Contract.

2. Language of Contract (Applicable for Goods and Services):

Unless otherwise stipulated in TEF, the contract shall be written in the Official Language or English. All correspondence and other contract documents, which the parties exchange, shall also be written/ translated accordingly in that language. For purposes of interpretation of the contract, the English documents/ translation shall prevail.

3. Governing Laws and Jurisdiction (Applicable for Goods and Services):

3.1 Governing Laws and Jurisdiction:

- (i) This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Laws of India for the time being in force.
- (ii) Irrespective of the place of delivery, or the place of performance or the place of payments under the contract, the contract shall be deemed to have been made at the place from which the Purchase Order/Contract/Letter of Intent has been issued. The courts of such a place shall alone have jurisdiction to decide any dispute arising out or in respect of the contract.

3.2 Changes in Laws and Regulations

Unless otherwise stipulated in the contract, if after the last deadline for the bid submission (Techno-commercial), any law, regulation, ordinance, order or bye-law having the force of law is enacted, promulgated, abrogated, or changed in India (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/ or the contract Price, then such Delivery Date and/ or Contract Price shall be correspondingly increased or decreased, to the extent that the contractor has thereby been



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

affected in the performance of any of its obligations under the contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable.

4. **Confidentiality, Secrecy and IPR Rights** (Applicable for Goods and Services):

- (i) **IPR Rights:** All deliverables, outputs, plans, drawings, specifications, designs, reports, and other documents and software submitted by the contractor under this Contract shall become and remain the property of MDL and subject to laws of copyright and must not be shared with third parties or reproduced, whether in whole or part, without MDL's prior written consent. The contractor shall, not later than upon termination or expiration of this Contract, deliver all such documents and software to MDL, together with a detailed inventory thereof. The contractor may retain a copy of such documents and software but shall not use it for any commercial purpose.
- (ii) **Confidentiality:** All documents, drawings, samples, data, associated correspondence or other information furnished by or on behalf of MDL to the contractor, in connection with the contract, whether such information has been furnished before, during or following completion or termination of the contract, are confidential and shall remain the property of MDL and shall not, without the prior written consent of MDL neither be divulged by the contractor to any third party, nor be used by him for any purpose other than the design, procurement, or other services and work required for the performance of this Contract. If advised by MDL, all copies of all such information in original shall be returned on completion of the contractor's performance and obligations under this contract.
- (iii) **Secrecy:** If the Contract declares the subject matter of this Contract as coming under the Official Secrets Act, 1923 or if the contract is marked as "Secret", the contractor shall take all reasonable steps necessary to ensure that all persons employed in any connection with the contract, have acknowledged their responsibilities and penalties for violations under the Official Secrets Act and any regulations framed thereunder.
- (iv) **Obligations of the contractor:**
 - a) Without MDL's prior written consent, the contractor shall not use the information mentioned above except for the sole purpose of performing this contract.
 - b) The contractor shall treat and mark all information as confidential (or Secret – as the case may) and shall not, without the written consent of MDL, divulge to any person other than the person(s) employed by the contractor in the performance of the contract. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for such performance for this contract.
 - c) Notwithstanding the above, the contractor may furnish to its holding company or its Subcontractor(s) such documents, data, and other information it receives from MDL to the extent required for performing the contract. In this event, the contractor shall obtain from such holding company/ Subcontractor(s) an undertaking of confidentiality (or secrecy – as the case may be) similar to that imposed on the contractor under the above clauses.
 - d) The obligation of the contractor under sub-clauses above, however, shall not apply to information that:
 - (i) the contractor needs to share with the institution(s) participating in the financing of the contract;
 - (ii) now or hereafter is or enters the public domain through no fault of Contractor;
 - (iii) can be proven to have been possessed by the contractor at the time of disclosure and which was not previously obtained, directly or indirectly, from MDL; or
 - (iv) otherwise lawfully becomes available to the contractor from a third party that has no obligation of confidentiality.
 - e) The above provisions shall not in any way modify any undertaking of confidentiality (or Secrecy – as the case may be) given by the contractor before the date of the contract in respect of the contract/ the Tender Document or any part thereof.
 - f) The provisions of this clause shall survive completion or termination for whatever reason of the contract.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

5. Permits, Approvals and Licenses (Applicable for Goods and Services):

Whenever the supply of Goods and incidental Works/ Services requires that the contractor obtain permits, approvals, and licenses from local public authorities, it shall be the contractor's sole responsibility to obtain these and keep these current and valid. Such requirements may include but not be restricted to export license or environmental clearance if required. If requested by the contractor, MDL shall make its best effort to assist the contractor in complying with such requirements in a timely and expeditious manner, without any dilution of the Contractor's responsibility in this regard.

6. Transfer of Title of Goods (Applicable for Goods):

- (i) Unless otherwise stated in the contract, notwithstanding any inspection and approval by the Inspecting Officer on the contractor's premises, or any payments made to the contractor, property in the Goods (and resultant rights and liabilities) shall not pass on to MDL until the Goods have been received, inspected, and accepted by the consignee. The Goods and every constituent part thereof, whether in the possession or control of the contractor, his agents or servants or a carrier, or the joint possession of the contractor, his agents or servants and MDL, his agents, or servants, shall remain in every respect at the risk of the contractor, until their actual delivery to a person stipulated in the contract as the interim consignee for dispatch to the consignee. The Contractor shall be responsible for all loss, destruction, damage, or deterioration of or to the Goods from any cause whatsoever while the Goods after approval by the Inspecting Officer are awaiting dispatch or delivery or are in the course of transit from the contractor to the consignee or, as the case may be, interim consignee. The Contractor shall alone be entitled and responsible for making claims against any carrier in respect of non-delivery, short delivery, miss-delivery, loss, destruction, damage, or deterioration of the Goods entrusted to such carrier by the contractor for transmission to the consignee or the interim consignee as the case may be.
- (ii) Provided that where, under the terms of the contract, the Goods are required to be delivered to an interim consignee for dispatch to the consignee, the Goods shall be at MDL's risk after their delivery to the interim consignee.

7. Extension of Delivery Period (Applicable for Goods):

- (i) If at any time during the currency of the contract, the contractor encounters conditions hindering timely delivery of the Goods and performance of incidental Works/ Services, he shall promptly inform MDL in writing about the same and its likely duration. He must make a request to MDL for an extension of the delivery schedule. On receiving the contractor's communication, MDL shall examine the situation and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages and with and without denial clause by issuing an amendment to the contract.
- (ii) **Conditions for Extension of Delivery Period:** When the period of delivery is extended due to unexcused delay by the contractor, the amendment extending the delivery period shall, inter alia, be subject to the following conditions:
 - a. **Liquidated Damages:** MDL shall recover from the contractor, under the provisions of this clause, liquidated damages on the Goods and incidental Works/ Services, which the contractor has failed to deliver within the delivery period stipulated in the contract.
 - b. **Denial Clause:**
 - (i) No increases in price on account of any statutory increase in or fresh Imposition of GST, customs duty or on account of any other taxes/ duty/ cess/ levy), leviable in respect of the Goods and incidental Works/ Services stipulated in the said contract which takes place after the original delivery date, shall be admissible on such of the said Goods, as are delivered after the said date; and
 - (ii) Notwithstanding any stipulation in the contract for an increase in price on any other ground, including price variation clause or foreign exchange rate variation, or any other variation clause, no such increase after the original delivery date shall be admissible on such goods delivered after the said date.
 - (iii) Nevertheless, MDL shall be entitled to the benefit of any decrease in price on account of reduction in or remission of GST, customs duty or on account of any



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

other Tax or duty or any other ground as stipulated in the price variation clause or foreign exchange rate variation or any other variation clause which takes place after the expiry of the original delivery date.

(iii) **Liquidated damages**

If the contractor fails to deliver any or all of the Goods or fails to perform the incidental Works/ Services (e.g. installation, commissioning or operator training) within the time frame(s) incorporated in the contract, MDL shall, without prejudice to other rights and remedies available to MDL under the contract, deduct from the contract price, as agreed liquidated damages, but not as a penalty, a sum equivalent to the 0.5 % percent (excluding taxes) of the delivered price of the delayed Goods and/ or incidental Works/ Services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 5% of the delayed Goods' or incidental Works/ Services' contract price(s). Besides liquidated damages during such a delay, the denial clause shall also apply. Any failure or delay by any sub-contractor, though their employment may have been sanctioned shall not be admitted as a ground for any extension of time or for exempting the contractor from liability for any such loss or damage as aforesaid.

8. Defaults, Breaches & Termination of Contract (Applicable for Goods and Services):

(i) Termination due to Breach, Default, and Insolvency

a. **Defaults and Breach of Contract:** In case the contractor undergoes insolvency or receivership; neglects or defaults, or expresses inability or disinclination to honour his obligations relating to the performance of the contract or ethical standards or any other obligation that substantively affects MDL's rights and benefits under the contract, it shall be treated as a breach of Contract. Such defaults could include inter-alia:

(i) **Default in Performance and Obligations:** If the contractor fails to deliver any or all of the Goods or fails to perform any other contractual obligations (including Code of Integrity or obligation to maintain eligibility and Qualifications based on which contract was awarded) within the period stipulated in the contract or within any extension thereof granted by MDL.

(ii) **Insolvency:** If the contractor being an individual or if a firm, any partner thereof, shall at any time, be adjudged insolvent or shall have a receiving order or order for the administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or enter into any assignment or composition with his creditors or suspend payment or if the firm be dissolved under the Partnership Act, or

(iii) **Liquidation:** if the contractor is a company being wound up voluntarily or by order of a Court or a Receiver, Liquidator or Manager on behalf of the Debenture-holders is appointed, or circumstances shall have arisen which entitle the Court or Debenture-holders to appoint a Receiver, Liquidator or Manager.

b. **Notice for Default:** As soon as a breach of contract is noticed, a show-cause 'Notice of Default' shall be issued to the contractor, giving two weeks' notice, reserving the right to invoke contractual remedies. After such a show-cause notice, all payments to the contractor would be temporarily withheld to safeguard needed recoveries that may become due on invoking contractual remedies.

c. **Terminations for Default:**

(i) **Notice for Termination for Default:** In the event of unsatisfactory resolution of 'Notice of Default' within two weeks of its issue as per sub-clause above, MDL if so decided, shall by written Notice of Termination for Default sent to the contractor, terminate the contract in whole or in part, without compensation to the contractor.

(ii) Such termination shall not prejudice or affect the rights and remedies, including under sub-clause below, which have accrued and/ or shall accrue to MDL after that.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(iii) Unless otherwise instructed by MDL, the contractor shall continue to perform the contract to the extent not terminated. All warranty obligations, if any, shall continue to survive despite the termination.

d. **Contractual Remedies for Breaches/Defaults or Termination for Default:** If there is an unsatisfactory resolution within this period, MDL shall take one; or more of the following contractual remedies.

(i) Temporary withhold payments due to the contractor till recoveries due to invocation of other contractual remedies are complete.

(ii) Call back any loaned property or advances of payment, if any, with the levy of interest at the prevailing rate (MIBID - Mumbai Interbank Bid Rate).

(iii) Recover liquidated damages and invoke denial clause for delays.

(iv) Encash and/ or Forfeit performance or other contractual securities.

(v) Prefer claims against insurances, if any.

(vi) Terminate contract for default, fully or partially including its right for Risk-and-Cost Procurement as per following sub-clause.

(vii) **Risk and Cost Procurement:** In addition to termination for default, MDL shall be entitled, and it shall be lawful on his part, to procure Goods same to those terminated, with such terms and conditions and in such manner as it deems fit at the "Risk and Cost" of the contractor. Such 'Risk and Cost Procurement' must be contracted within one year from the breach of Contract. The Contractor shall be liable for any loss which MDL may sustain on that account provided the procurement, or, if there is an agreement to procure, such agreement is made. The Contractor shall not be entitled to any gain on such procurement, and the manner and method of such procurement shall be in the entire discretion of MDL. It shall not be necessary for MDL to notify the contractor of such procurement. It shall, however, be at the discretion of MDL to collect or not the security deposit from the firm/ firms on whom the contract is placed at the risk and cost of the defaulted firm.

Note: Regarding the Goods which are not readily available in the market and where procurement difficulties are experienced, the period for making risk procurement shall be nine months instead of six months provided above.

(viii) Initiate proceedings in a court of law for the transgression of the law, tort, and loss, not addressable by the above means.

9. Closure of Contract (Applicable for Goods and Services):

The contract shall stand closed upon successful performance of all obligations by the firm, including completion of warrantee obligations and final payment. If no claim is received within 03 years from last supplies/services, then no claim shall be entertained thereafter.

10. General (Applicable for Goods and Services)

Unless otherwise indicated specifically by the bidder / contractor in his bid, it shall be construed as his acceptance of all the conditions mentioned in this GCC.

11. Communication and language for documentation (Applicable for Goods and Services)

Any letter, facsimile message, e-mail intimation or notice sent to the Bidder/Supplier/ Contractor at the last known address mentioned in the offer / order shall be deemed to be valid communication for the purpose of the order/contract. Unless stated otherwise by the purchaser, Language for communication and all documentation shall be same, which the Purchaser has used, in the tender enquiry.

12. Preservation and maintenance: (Applicable for Goods)

Should any material require any preservation till its final installation/fitment, the detailed procedure (Long term and short term) for the same as also the time of interval after which the state of preservation needs to be reviewed is to be stated by the Bidder/Supplier/Contractor.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Further the de-preservation prior to the material/equipment being commissioned and the maintenance procedure together with its periodicity is also to be indicated by the Bidder / Supplier / Contractor.

13. **Freight and insurance.** (Applicable for Goods)

For Indigenous Bidders. Bidder shall quote for 'Door Delivery to Purchaser,' all charges towards door delivery viz. transport, Insurance charges etc. shall be borne by the Bidder / Supplier / Contractor.

For Foreign Bidders: For overseas bidders, bidder shall agree for supplying the goods on CIF/CIP, Incoterm basis. The Bidder / Supplier / Contractor shall immediately on despatch of the items, inform all relevant details of despatch such as Order Number, Bill of Lading/AWB Number marked as Freight Paid, Insurance policy/document, number of packages, value of consignment, invoice number etc. as per contractual terms.

14. **Demurrage (Applicable for Goods):** Storage, and Demurrage, fines etc. charges will be payable by the Bidder / Supplier / Contractor for all shipments in case of improper documentation, wrong declarations, error in weight measurements, packing list, invoice, late receipt of documents etc. i.e. for reasons which are not attributable to the purchaser.

15. **Cancellation of tender** (Applicable for Goods and Services)

The Purchaser reserves the right to cancel/withdraw the tender in toto or part and or award the contract / order in full or part without assigning any reason whatsoever and without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the grounds for MDL action.

16. **Facility provision** (Applicable only for Services)

The Purchaser would consider providing facilities like - compressed air at one point, crange facility for handling heavy loads for lowering onto the ship and water intended for use by the Contractor / Bidder for execution of contract for working within the Purchaser's premises at no extra cost to the Contractor / Bidder. Industrial gases, electrical power, office space / RU store facility may be provided at one point only if possible and available and on chargeable basis if so desired by the Contractor / Bidder. The contractor / Bidder shall make his own arrangements for fixing necessary fittings, wires, welding machines, transformer, etc. for power, connecting lines, storage etc for water and necessary fittings, pipes, breaker, hoses etc. for compressed air.

17. **Purchaser's property.** (Applicable for Goods and Services)

All property (such as materials, drawings, documents etc.) issued by the Purchaser or any other individual or firm on behalf of the Purchaser in connection with the contract shall remain confidential, being the property of the Purchaser and the Bidder/Supplier/Contractor shall undertake to return all such property so issued and will be responsible for any or all loss thereof and damage thereto resulting from whatever causes and shall reimburse the Purchaser the full amount of loss and damage.

On completion of work in any compartment / location of the purchaser's premises, the Bidder/Supplier/Contractor must ensure that the place is left in a reasonably clean state and all scrap is transferred to nearby scrap-bins.

18. **Risk purchase** (Applicable for Goods and Services)

If the equipment / article / service or any portion thereof be not delivered / performed by the scheduled delivery date / period, any stoppage or discontinuation of ordered supply / awarded contract without written consent by Purchaser or not meeting the required quality standards the Purchaser shall be at liberty, without prejudice to the right of the Purchaser to recover Liquidated Damages / penalty as provided for in these conditions or to any other remedy for breach of contract, to terminate the contract either wholly or to the extent of such default. Amounts advanced or part thereof corresponding to the undelivered supply shall be recoverable from the Contractor / Bidder at the prevailing bank rate (Benchmark Prime Lending Rate (BPLR) by SBI) of interest.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

The Purchaser shall also be at liberty to purchase, manufacture or supply from stock as it deems fit, other articles of the same to make good such default and/or in the event of the contract being terminated, the balance of the articles of the remaining to be delivered there under. Any excess over the purchase price, cost of manufacture or value of any articles supplied from the stock, as the case may be, over the contract price shall be recoverable from the Bidder / Supplier / Contractor.

19. Recovery-adjustment provisions: (Applicable for Goods and Services)

Payment made under one order shall not be assigned or adjusted to any other order except to the extent agreed upon in writing by the Purchaser. During the currency of the contract, if any sum of money is payable by the Bidder / Supplier / Contractor the same shall be deducted from any sum then due or thereafter may become due to the Bidder / Supplier / Contractor under the contract or any other contract with the Purchaser.

20. Indemnification (Applicable for Goods and Services):

The Bidder / Supplier / Contractor, his employees, licences, agents or Sub-Supplier / Sub-contractor, while on site of the Purchaser for the purpose of this contract, indemnifies the Purchaser against direct damage and/or injury to the property and/or the person of the Purchaser or that of Purchaser's employees, agents, Sub-Contractors / Suppliers occurring and to the extent caused by the negligence of the Bidder / Supplier / Contractor, his employees, licensees, agents or Sub-contractor by making good such damages to the property, or compensating personal injury and the total liability for such damages or injury shall be as mutually discussed and agreed to.

21. Transfer of suppliers / contractor's rights: (Applicable for Goods and Services)

The Bidder / Supplier / Contractor shall not either wholly or partly sell, transfer, assign or otherwise dispose of the rights, liabilities and obligations under the contract between him and the Purchaser without prior consent of the Purchaser in writing.

22. Subcontract and right of purchaser (Applicable for Goods and Services)

The Bidder / Supplier / Contractor under no circumstances undertake or subcontract any work / contract from or to any other Sub-contractor without prior written approval of the Competent Authority of Purchaser. In the event it is found that such practice has been indulged in, the contract is liable to be terminated without notice and the Bidder / Supplier / Contractor is debarred all from future tender enquiries / work orders. However, in no circumstances a contractor is permitted to subcontract any part of the contract to the bidders who had quoted for the concerned tender.

23. Patent rights (Applicable for Goods and Services)

The Bidder / Supplier / Contractor shall hold harmless and keep the Purchaser indemnified against all claims arising as a result of infringement of any patent / copy rights on account of manufacture, sale or use of articles covered by the order.

24. Agents/Agency Commission :(Applicable for Goods and Services)

The seller confirms and declares to the buyer that the seller is the original manufacturer or authorized distributor/stockiest of original manufacturer of the goods referred to in this contract and has not engaged any individual or firm, whether Indian or foreign whatsoever, to intercede, facilitate or in any way to recommended to the Buyer or any of its functionaries, whether officially or unofficially , to the award of the Contract / Purchase order to the Seller; nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or recommendation.

The Seller agrees that if it is established at any time to the satisfaction of the Buyer that the present declaration is in any way incorrect or if at a later stage it is discovered by the Buyer that the Seller has engaged any such individual/firm, and paid or intended to pay any amount, gift, reward , fees, commission or consideration to such person, party, firm or institution , whether before or after the signing of this Contract / Purchase order, the Seller will be liable to refund that amount to the Buyer.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

The seller will also be debarred from participation in any RFQ/Tender for new projects/program with Buyer for a minimum period of five years.

The buyer will also have a right to consider cancellation of the Contract either wholly or in part, without any entitlement or compensation to the Seller who shall in such event be liable to refund all payments made by the buyer in terms of the Contract along with interest at the rate of 2% per annum or 6% whichever is higher above LIBOR (London Inter Bank Offer Rate) (for foreign vendors) and base rate of SBI plus 2% (for Indian Vendors).

The Buyer will also have the right to recover any such amount from any contracts concluded earlier with Buyer.

25. **Use of undue influence / corrupt practices** : (Applicable for Goods and Services) The Bidder / Supplier / Contractor undertakes that he has not used corrupt practices or used any undue influence which is not admissible as per Indian law to obtain contract/order or in doing any business with the purchaser.
If found that Bidder / Supplier / Contractor is involved in such wrong practices, then Purchaser is entitled to cancel the contract/s and all or any other contracts and then to recover from the Bidder / Supplier / Contractor the amounts of any loss arising from such contracts' cancellation, including but not limited to imposition of penal damages, forfeiture of Performance security, encashment of the Bank Guarantee and refund of the amounts paid by the Purchaser.
26. **Immunity of Government of India clause**: (Applicable for Goods and Services)
It is expressly understood and agreed by and between M/s. (Bidder / Supplier / Contractor) and Mazagon Dock Shipbuilders Limited, Dockyard Road, Mumbai - 400 010 (MDL) is entering into this Agreement solely on its own behalf and not on the behalf of any person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this Agreement and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that MDL is an independent legal entity with power and authority to enter into contracts solely in its own behalf under the applicable of Laws of India and general principles of Contract Law. The (Bidder / Supplier / Contractor) expressly agrees, acknowledges and understands that MDL is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions and commissions, breaches or other wrongs arising out of the contract. Accordingly, (Bidder / Supplier / Contractor) hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Government of India arising out of this contract and covenants not to sue Government of India in any manner, claim, cause of action or thing whatsoever arising of or under this Agreement.
27. **Export licence** (Applicable for Goods and Services): The export licenses that may be required for delivery of the various items/equipment to MDL shall be arranged by the Bidder / Supplier / Contractor from the concerned authorities in their country without any time and cost implications on the Purchaser.
28. **Banned or de-listed contractors / suppliers**. (Applicable for Goods and Services)
The Bidder / Supplier / Contractor declares that they being Proprietors / Directors / Partners have not been any time individually or collectively blacklisted or banned or de-listed by any Government or quasi Government agencies or PSUs. If a bidder's entities as stated above have been blacklisted or banned or de-listed by any Government or quasi Government agencies or PSUs, this fact must be clearly stated and it may not necessarily be a cause for disqualifying him.
29. **Duty of personnel of supplier/contractor** (Applicable for Goods and Services)
MDL being a Defence Public Sector Undertaking, Bidder / Supplier / Contractor undertakes that their personnel deployed in connection with the entrusted work will not indulge in any activities other than the duties assigned to them.
30. **Dispute resolution mechanism and arbitration** (Applicable for Goods and Services)
(a) Dispute resolution mechanism(DRM)



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

i) Any dispute/differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations at HoS/HoD level.

ii) In case of non-settlement by (i) above, if at any time, before, during or after the contract period any unsettled claim, dispute or difference arose between the parties, upon or in relation to or in connection with or in any way touching or concerning this tender/agreement/order/contract, the same shall be referred to the concerned Functional Director.

The Functional Director shall then nominate an Executive of the rank of General Manager whom he thinks fit and competent or a Committee of Executives who/which shall then scrutinize the claims/disputes that have been referred to the concerned functional Director and make efforts for amicable settlements by mutual discussions/negotiations.

iii) In case no amicable settlement is arrived by (ii) above within a period of three months, then the contractor shall approach Public Grievance Cell and address the disputes as per the provisions made under the relevant clause of the contract.

iv) In case the issues/disputes do not get settled within a period of six months from the date of submission of the dispute to the Grievance Cell, then the contractor may invoke Arbitration Clause of the contract.

(b) Arbitration (Applicable for Goods and Services)

Unresolved disputes/differences, if any, shall then be settled by arbitration. The Arbitration proceedings shall be conducted at Mumbai, India, in English Language, under the Arbitration and Conciliation Act, 1996.

MDL prefers to have arbitration through Institutes such as Indian Council of Arbitration (ICA)/ICA-DR, with the mutual consent of the parties.

In case of unresolved difference/dispute between the Purchaser and Supplier, being Central Public Sector Enterprises/Central Govt. departments, the disputes shall be resolved firstly through mutual discussion or through the empowered agencies of the Govt. or through arbitration by reference by either party to the department of Public Enterprises, as per extant guidelines. If disputes/differences remain unresolved/unexecuted, the same shall be referred first to the Cabinet Secretariat and then, if necessary to the PMO.

Any changes to arbitration clause must be vetted by HOD (Legal) before incorporation in contract/PO.

31. Jurisdiction of courts (Applicable for Goods and Services)

All contracts shall be deemed to have been wholly made in Mumbai and all claims there under are payable in Mumbai City and it is the distinct condition of the order that no suit or action for the purpose of enforcing any claim in respect of the order shall be instituted in any Court other than that situated in Mumbai City, Maharashtra State, India i.e. courts in Mumbai shall alone have jurisdiction to decide upon any dispute arising out of or in respect of the contract.

32. Contract labour (regulation and abolition) act 1970(Applicable for Services)

Contractor / Bidder shall obtain licence under Section 12 and 13 of the Contract Labour (Regulation and Abolition) Act, 1970 and rules made there under and the same should be kept valid at least until the expiry of contract with Purchaser. The registration and Licence under the Contract Labour (Regulation and Abolition) Act 1970 shall be renewed in time every year and if work continues for more than a year, a copy of the Licence is produced as and when demanded by the concerned authorities of Purchaser.

The Contractor / Bidder shall carryout his obligations and duties under the Contract Labour (Regulation and Abolition) Act, 1970 and the rules framed there under.

In the event any employee/s of Contractor / Bidder is advised by the concerned Department to deploy their employees for job during weekly-off, Sundays and holidays, the Contractor / Bidder must inform through Concerned Department the name/s of the employee/s in the prescribed format to CISF / Security and to the concerned Divisional Personnel by mentioning specifically 'Compensatory - Off', before 3 days from the date actual payment.

33. Minimum wages act (Applicable for Services)

The Contractor / Bidder shall pay to his employees not less than the minimum wages and allowances applicable to the Engineering Industry as notified from time to time by the Central Government or the State Government whichever is higher under the Minimum Wages Act.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Contractor / Bidder shall be responsible for timely payment of wages of all his employees engaged in the Purchaser's Yard, not less than the prescribed minimum wages in each case and without any deductions of any kind, except as specified by Government or permissible under the Payment of Wages Act.

The Contractor / Bidder must settle all the pending dues of the employees i.e. arrears of wages, proportionate leave wages, proportionate bonus payment, etc.

Before winding up the site, the Contractor / Bidder shall pay all terminal dues to his employees such as Notice pay, Gratuity, Retrenchment compensation, etc.

34. **Bonus Act** (Applicable for Services)

The Contractor / Bidder shall pay to his eligible employees a Statutory Bonus as per 'Payment of Bonus Act' at the rate prescribed by the Statutory Authorities from time to time.

35. **Factories Act** (Applicable for Services)

The Contractor / Bidder shall observe all applicable Rules and Regulations stipulated under Factories Act applicable to contract labour.

The Contractor / Bidder shall maintain a separate register prescribed under the Act and pay Privilege Leave wages to all eligible employees.

On completion of execution of the contract and before winding up, the Contractor / Bidder shall pay proportionate Privilege Leave wages to all eligible employees.

36. **Employees' Provident Funds and Miscellaneous Provisions Act, 1952** (Applicable for Services)

The Contractor / Bidder, where applicable, shall cover his employees deployed in the Purchaser's Yard

i. under the Employees' Provident Funds and Miscellaneous Act, 1952,

ii. under the Family Pension Scheme, and

iii. under the Employees' Deposit Linked Insurance Scheme and pay the contributions both

in respect of his employees and his own. He shall submit all the necessary returns and other particulars periodically as prescribed under the said Act. Contractor / Bidder shall cover from the first day working all his contract labour on MDL jobs by filling requisite returns to concerned Statutory authorities and obtaining Code Numbers / Account Numbers. Contractor / Bidder shall remit employees' and employers' contributions directly to the concerned authorities along with Inspection and Administrative Charges as per relevant provisions of the concerned Acts and Schemes made there under within 15 days from the close of every month. The Contractor / Bidder must submit copies of P. F. dues payment challans, copy of Form No. 12 (A), copy of form No. 6 (A) (Annually) and copies of Muster Roll of their workmen every month to Corporate Personnel Department before renewal of passes for entry into the yard. The Contractor / Bidder must also attend to P. F. Inspections by concerned authorities and submit copy of the Inspection Report.

The Contractor / Bidder through his own P. F. code number shall fill in P. F. / Pension settlement forms of all the employees engaged in Purchaser's Yard, well in advance of last working day and forwards the said settlement forms to the respective P. F. Commissioner's office for settlement. Contractors who are yet to obtain PF code shall apply for Code no s to PF Commissioners Office and furnish copies of the same to Corporate Personnel Department. Purchaser shall recover PF dues from the contractors running bills till such time the PF Code no is obtained.

The Contractor / Bidder may contact Corporate Personnel Department for the purpose to seek any / all clarification / necessary advice for completion of procedural work such as filling labour challans, E. S. I., P. F. - declaration forms, covering their labour under Group Insurance Policy, etc. An Administrative charge @ Rs. 10/- per employee per month for such consultancy will be recovered from all the contractors from the bills of the respective contracts

37. **Employees' State Insurance Act** (Applicable for Services)

The Contractor / Bidder should also cover all the eligible contract labourers working on MDL jobs, under the Employees' State Insurance Act and Scheme by furnishing necessary returns to appropriate authority and pay both employees' and employers' contributions in respect of these employees to the concerned authorities within 20 days from the close of every month. The



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

contractor shall produce copy of R. D. F. duly acknowledged by ESI local office for confirmation that the workmen are covered under ESI Act and Scheme.

Contractor / Bidder should produce proof of such remittances to Corporate Personnel Department of MDL along with full details of contributions etc. within 25 days from the close of month. He shall also give an undertaking that he will not engage any one on our work who is not duly covered under the said Act and Scheme. The contract employees who are out of coverage of ESI Act and Scheme should be covered under Group Insurance Policy linked with workman compensation Act. Those Bidders / contractors do not have their ESI Code No.; they should submit documentary evidence of application for obtaining ESI Code no to Corporate Personnel Department.

38. Safety:(Applicable for Goods & Services)

The Contractor / Bidder must observe all safety precautions in connection with the work to be performed by him, his agents or laborers. In the event of any accident happening in our yard resulting in loss of lives or otherwise damaging any part of the property, the contractor shall be required to make good the loss to the Company and shall be responsible for all consequences that follow from the loss and / or injuries to the persons involved in such accidents. The standard of safety to be observed in the Company shall be decided by the Executive-in-Charge Safety, or any Executive appointed for the purpose before the commencement of work in the yard. It will be essential for contractor to ascertain the standard precautions which contractor is required to observe in discharging his work as per the standards prevalent in MDL. The decision of MDL in matters concerning Safety shall be final and binding on the contractor.

The Contractor / Bidder shall be required to provide his workmen with Boiler Suits of any suitable color other than blue or white, with the Name of the Contractor in prominent letters on the boiler suits along with personal protection gears like safety shoes, hand gloves etc. workmen of the Contractor / Bidder must wear throughout their working while in the premises of MDL. Contractor's workmen working without safety gears are to be disallowed for work.

39. Police verification of employees (Applicable for Services)

Contractor / Bidder shall have to produce and submit to the Chief Security Executive of Purchaser, verification through Mumbai Police of Character and Antecedents of their employees / workers for while working on ships under construction in Purchaser's Yards, for working onboard ships under modernization / refit / repairs at Mumbai ports / Naval Dockyard. Entry passes will not be issued in the absence of Police Verification Report and employees without Police Verification shall not be employed by them in Purchaser's Yard / Mumbai ports / Naval Dockyard and any lapse on the part of Contractor / Bidder shall be viewed seriously as per applicable laws of the land. Employment of any Foreign National during the contract period would be permitted with prior permission of Purchaser.

40. Force Majeure. (Applicable for Goods and Services)

If at any time during the execution of the goods / service order, the performance in whole or in part by either Purchaser or and by the Bidder(s) / Supplier(s) / Contractor(s) is / are delayed by any reason of force majeure situations such as acts of civil war, civil commotion, sabotage, hostilities, war, fires, explosions, epidemics, natural calamities like floods, earthquakes, volcanoes, storms, acts of God and laws of respective governments or any other causes beyond the control of either parties, hereinafter referred to as "events", provided notice of the occurrence of such event/s is / are communicated by either party, to the other party within 21 days from the date of occurrence thereof, neither party shall by reason such events be entitled to terminate the contract nor shall either party have any claim for damages against the other in respect of such non-performance and or delay in performance of the contract / order. Executions on either side shall be resumed as soon as practicable after such event has come to an end or ceased to exist and the decision of Purchaser as to whether activities can resume or not, shall be conclusive and final. Occurrence of the events to be certified by Chamber of Commerce / Indian High Commission or Embassies / Government in that Country.

The performance in whole or in part under the captioned tender / contract is prevented or delayed by reason of any such event for a period exceeding sixty days either party may at its option terminate the contract / further processing of the tender. The relative obligations of both the parties remain suspended during the actual period of force majeure.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

The Purchaser may extend the delivery schedule as mutually agreed, on receipt of written communication from the Bidder / Supplier / Contractor regarding occurrence of 'Force Majeure' conditions, but not exceeding six months from the scheduled delivery date. If the 'Force Majeure' conditions extend beyond this period, the Purchaser shall have the right to cancel the order without any financial implication to the Purchaser or on terms mutually agreed to.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120
Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302
Type of tender: Limited Tender

Section IV - Annexures / Formats

ANNEXURE- 1

Integrity Pact (IP) Format

Mazagon Dock Shipbuilders Limited (MDL) hereinafter referred to as **"The Principal/Buyer"**

And.....hereinafter referred to as **"The Bidder/ Contractor"**

Preamble

	The Principal/Buyer intends to award, under laid down organizational procedures, contract/s forThe Principal/Buyer values full compliance with all relevant laws of the land rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder(s) and /or Contractor(s). In order to achieve these goals, the Principal/Buyer will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.
--	--

Section 1 - Commitments of the Principal/Buyer:

(1)	The Principal/Buyer commits itself to take all measures necessary to prevent corruption and to observe the following principles:
a)	No employee of the Principal/Buyer, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
b)	The Principal/Buyer will during the tender process treat all Bidder(s) with equity and reason. The Principal/Buyer will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
c)	The Principal/Buyer will exclude from the process all known prejudiced persons.
d)	The Principal/Buyer undertakes to scrupulously follow the tender containing Standard Terms & Conditions (STAC) and General Terms & Conditions (GT&C) in respect of procurement contracts for goods, services and civil works.
(2)	If the Principal/Buyer obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal/Buyer will inform the Chief Vigilance Officer, MDL and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/Contractor(s):

(1)	The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
a)	The Bidder(s)/Contractor(s) will not, directly or through any other persons or firm, offer promise or give to any of the Principal/Buyer's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage or any kind whatsoever during the tender process or during the execution of the contract.
b)	The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
c)	The Bidder(s)/Contractor(s) will not commit any offence under the relevant Anti-Corruption Laws of India; further the Bidder(s)/Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to other, any information or



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

		document provided by the Principal/Buyer as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
	d)	The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the Bidder(s)/Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. All payments made to the Indian Agent/representative have to be in Indian Rupees only. Further details as mentioned in the "Guidelines of Indian Agents of Foreign suppliers" shall be disclosed by the Bidders(s)/Contractor(s). Copy of the "Guidelines on Indian Agents of Foreign Suppliers" as annexed and marked as Annexure-A.
	e)	The Bidder(s)/Contractor(s) will when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
	f)	The Bidder (s)/Contractor(s), their agents, representatives shall not do such things so as to interfere with the procedures laid down in the Principal/Buyer's tender containing the Standard Terms and Conditions (STAC) and General Terms and Conditions (GT&C) in respect of procurement contracts for goods, services and civil works.
	g)	The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
(2)		The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlines above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts:

		If the Bidder(s)/Contractor(s) before contract award or during execution of Contract has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility as Bidder(s) in question, the Principal/Buyer is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or to terminate the contract, if already signed for such reason, as per the procedure mentioned in the "Guidelines on Banning of business dealings" Copy of the "Guidelines on Banning of business dealings" is annexed and marked as Annexure-B.
	1)	If the Bidder(s)/Contractor(s) has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal/Buyer is entitled also to exclude the Bidder(s)/Contractor(s) from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder(s) and the amount of the damage. The exclusion will be imposed for a minimum of <u>six</u> months and maximum of <u>five</u> years, which may be further extended at the discretion of the Principal/Buyer.
	2)	A transgression is considered to have occurred, if the Principal/Buyer after due consideration of the available evidence, concludes that no reasonable doubt is possible.
	3)	The Bidder (s) accepts and undertakes to respect and uphold the Principal/Buyer's absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining legal advice.
	4)	If the Bidder(s)/Contractor(s) can prove that he has restored/ recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Buyer may revoke the exclusion prematurely.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Section 4 – Sanctions for Violation:

(1)	Any breach of the aforesaid provisions by the Bidder or any one employed by him or acting on his behalf (whether with or without the knowledge of the Bidder) or the commission of any offence by the Bidder or any one employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act 1988 or any other Act enacted for the prevention of corruption shall entitle the Principal/Buyer to take all or any one of the following actions, wherever required –
a)	To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the Bidder. However, the proceedings with the other Bidder (s) would continue.
b)	The Earnest Money Deposit/Security Deposit/Performance Bond shall stand forfeited either fully or partially, as decided by the Principal/Buyer, and the Principal/Buyer shall not be required to assign any reason there for.
c)	To immediately cancel the contract, if already signed, without giving any compensation to the Bidder.
d)	To recover all sums already paid by the Principal/Buyer, in case of an Indian Bidder with interest thereon at 2% higher than the prevailing Base Rate of SBI, and in case of a Bidder from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the Bidder from the Buyer in connection with any other contract for any other Defence stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
e)	To en-cash the advance Bank Guarantee and Performance Bond/Warranty bond, if furnished by the Bidder, in order to recover the payments, already made by the Principal/Buyer, along with interest.
f)	To cancel all or any other contracts with the Bidder.
g)	To debar the Bidder from entering into any bid from Principal/Buyer for a minimum period of five years, which may be further extended at the discretion of the Principal/Buyer.
h)	To recover all sums paid in violation of this Pact by Bidder(s) to any middleman or agent or broker with a view to securing the contract.
i)	If the Bidder or any employee of the Bidder or any person acting on behalf of the Bidder, either directly or indirectly, is closely related to any of the officers of the Buyer, or alternatively, if any close relative of an officer of the Buyer has financial interest/stake in the Bidder's firm, the same shall be disclosed by the Bidder at the time of filing of tender. Any failure to disclose the interest involved shall entitle the Buyer to rescind the contract without payment of any compensation to the Bidder.
	The term 'close relative' for this purpose would mean spouse whether residing with the Principal/Buyer's employee/employees or not, but not include a spouse separated from the Principal/Buyer's employee/employees by a decree or order of a competent court; son or daughter or step son or step daughter and wholly dependent upon Principal/Buyer's employee/employees, but does not include a child or step child who is no longer in any way dependent upon the Principal/Buyer's employee/employees or of whose custody the Principal/Buyer's employee/employees has been deprived of by or under any law; any other person related, whether by blood or marriage, to the Principal/Buyer's employee/employees or to the Principal/Buyer's employee/employees wife or husband and wholly dependent upon Principal/Buyer's employee/employees.
j)	The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Principal/Buyer, and if he does so, the Principal/Buyer shall be entitled forthwith to rescind the contract and all other contracts with the Bidder. The Bidder shall be liable to pay compensation for any loss or damage to the Principal/Buyer resulting from such rescission and the Principal/Buyer shall be entitled to deduct the amount so payable from the money(s) due to the Bidder.
k)	In cases where Irrevocable Letters of Credit have been received in respect of any contract signed by the Principal/Buyer with the Bidder, the same shall not be opened.
(2)	The decision of the Principal/Buyer to the effect that a breach of the provisions of this



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Integrity Pact has been committed by the Bidder shall be final and binding on the Bidder, however, the same Bidder can approach the Monitor(s) appointed for the purposes of this Pact.

Section 5 - Previous Transgression:

- | | |
|-----|---|
| (1) | The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the anti-corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process. |
| (2) | If the bidder makes incorrect statement on this subject, he can be disqualified from the tender process or further action can be taken. |

Section 6 - Equal treatment of all Bidders/Contractor(s)/Subcontractors:

- | | |
|-----|--|
| (1) | The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this integrity Pact, and to submit it to the Principal before contract signing. |
| (2) | The Principal/Buyer will enter into agreements with identical conditions as this one with all bidders, contractors and subcontractors. |
| (3) | The Principal/Buyer will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions. |

**Section 7 - Criminal charges against violation Bidder(s)/Contractor(s)/
Subcontractor(s):**

- | | |
|-----|---|
| (1) | If the Principal/Buyer obtains knowledge of conduct of a Bidder, Contractor or subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or subcontractor which constitutes corruption or if the Principal has substantive suspicion in this regard, the Principal/Buyer will inform the same to the Chief Vigilance Officer, MDL. |
|-----|---|

Section 8 - Independent External Monitor/Monitors:

- | | |
|-----|---|
| (1) | The Principal/Buyer appoints competent and credible independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively whether and to what extent the parties comply with the obligations under this agreement. |
| (2) | The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairman & Managing Director of the Principal/Buyer. |
| (3) | The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal/Buyer including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality. |
| (4) | The Principal/Buyer will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations, between the Principal/Buyer and the Contractor. The parties offer to the Monitor the option to participate in such meetings. |
| (5) | As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal/Buyer and request the Management to discontinue or take corrective action, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Monitor shall give an opportunity to the Bidder(s)/Contractor(s) to present its case before making its recommendation to the Principal/Buyer. |
| (6) | The Monitor will submit a written report to the Chairman & Managing Director of the |



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

	Principal within 8 to 10 weeks from the date of reference or intimation to him by the Principal/Buyer and, should the occasion arise, submit proposals for correcting problematic situations.
(7)	Monitor shall be entitle to compensation on the same terms as being extended to / provided to Independent Directors on the Board of Principal/Buyer.
(8)	If the Monitor has reported to the Chairman & Managing Director of the Principal, a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India and the Chairman & Managing Director of the Principal/Buyer has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
(9)	The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration:

	<p>This pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract and for all other Bidders 06 months after the contract has been awarded.</p> <p>If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above unless it is discharged / determined by Chairman & Managing Director of the Principal/Buyer.</p>
--	---

Section 10 - Other provisions:

(1)	This agreement is subject to Indian Law, place of performance and jurisdiction is the Registered Office of the Principal/Buyer, i.e. Mumbai (For MDL). The Arbitration clauses provided in the main tender document/ contract shall not be applicable for any issue/dispute arising under this Integrity pact.
(2)	Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
(3)	If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
(4)	Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

Section 11 - Fall Clause: #

"The Bidder undertakes that it has not supplied/is not supplying similar products/ systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the Bidder to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance of elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the Bidder to the Principal/Buyer, if the contract has already been concluded."

For & on behalf of
Mazagon Dock Shipbuilders Limited

For & on behalf of
Bidder/Contractor

(Office Seal)

(Office Seal)

Place_____

Date_____

Witness 1:

Witness 2:

(Name & Address)

(Name & Address



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Annexure-A

GUIDELINES FOR INDIAN AGENTS OF FOREIGN SUPPLIERS

1.0	There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with MDL shall apply for registration.
1.1	An agent shall represent only one Foreign Supplier and not represent two suppliers or quote on their behalf in the same tender. However, either the Indian Agent on behalf of the Foreign Suppliers (also includes foreign manufacturers) or the Foreign Suppliers (also includes foreign manufacturers) directly could bid in a tender, but not both. In cases where an agent participates in a tender on behalf of one manufacturer, shall not quote on behalf of another manufacturer along with the first Manufacturer in a subsequent/parallel tender for the same item.
1.2	Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/remuneration/salary/ retainer ship being paid by the principal to the agent before the placement of order by MDL.
1.3	Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.

2.0 DISCLOSURE OF PARTICULARS OF AGENTS/ REPRESENTATIVES IN INDIA, IF ANY.

2.1	Tenderers of Foreign nationality shall furnish the following details in their offer:	
	2.1.1	The name and address of the agents/representatives in India, if any and the extent of authorization and authority given to commit the Principals. In case the agent/representative be a foreign Company, it shall be confirmed whether it is real substantial Company and details of the same shall be furnished.
	2.1.2	The amount of commission/remuneration included in the quoted price(s) for such agents/representatives in India.
	2.1.3	Confirmation of the Tenderer that the commission/ remuneration if any, payable to his agents/ representatives in India, may be paid by MDL in Indian Rupees only.
2.2	Tenderers of Indian Nationality shall furnish the following details in their offers:	
	2.1.1	The name and address of the foreign principals indicating their nationality as well as their status, i.e, whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/representatives.
	2.2.2	The amount of commission/remuneration included in the price (s) quoted by the Tenderer for himself.
	2.2.3	Confirmation of the foreign principals of the Tenderer that the commission/remuneration, if any, reserved for the Tenderer in the quoted price (s), may be paid by MDL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items .
2.3	In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission /remuneration, if any payable to the agents/representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.	
2.4	Failure to furnish correct and detailed information as called for in paragraph-2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by MDL. Besides this there would be a penalty of banning business dealings with MDL or damage or payment of a named sum.	



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Annexure-B

GUIDELINES ON BANNING OF BUSINESS DEALINGS
CONTENTS

Sr.	Description
1.	Introduction
2.	Scope
3.	Definitions
4.	Initiation of Banning / Suspension
5.	Suspension of Business Dealings
6.	Ground on which Banning of Business Dealing can be initiated
7.	Banning of Business Dealings
8.	Removal from List of Approved Agencies-Suppliers/ Contractors etc.
9.	Procedure for issuing Show-cause Notice
10.	Appeal against the Decision of the Competent Authority
11.	Review of the Decision by the Competent Authority
12.	Circulation of the names of Agencies with whom Business Dealings have been banned

1. Introduction

1.1	Mazagon Dock Shipbuilders Limited (MDL), being a Public Sector Enterprise and 'State', within the meaning of Article 12 of Constitution of India, has to ensure preservation of rights enshrined in Chapter III of the Constitution. MDL as also to safeguard its commercial interests. MDL deals with Agencies, who have a very high degree of integrity, commitments and sincerity towards the work undertaken. It is not in the interest of MDL to deal with Agencies who commit deception, fraud or other misconduct in the execution of contracts awarded / orders issued to them. In order to ensure compliance with the constitutional mandate, it is incumbent on MDL to observe principles of natural justice before banning the business dealings with any Agency.
1.2	Since banning of business dealings involves civil consequences for an Agency concerned, it is incumbent that adequate opportunity of hearing is provided and the explanation, if tendered, is considered before passing any order in this regard keeping in view the facts and circumstances of the case.

2. Scope

2.1	MDL reserves its rights to remove from list of approved suppliers / contractors or to ban business dealings if any Agency has been found to have committed misconduct and also to suspend business dealings pending investigation.
2.2	Similarly, in case of sale of material there is a clause to deal with the Agencies / customers / buyers, who indulge in lifting of material in unauthorized manner.
2.3	However, absence of such a clause does not in any way restrict the right of MDL to take action / decision under these guidelines in appropriate cases.
2.4	The procedure of (i) Removal of Agency from the List of approved suppliers / contractors; (ii) Suspension and (iii) Banning of Business Dealing with Agencies, has been laid down in these guidelines.
2.5	These guidelines apply to all the Divisions/Yards of MDL.
2.6	It is clarified that these guidelines do not deal with the decision of the Management not to entertain any particular Agency due to its poor / inadequate performance or for any other reason.
2.7	The banning shall be with prospective effect, i.e., future business dealings.

3. Definitions

In these Guidelines, unless the context otherwise requires:

i)	'Bidder / Contractor / Supplier / Purchaser / Customer' shall mean and include a public limited company or a private limited company, a firm whether registered or not, an individual, a cooperative society or an association or a group of persons engaged in any commerce, trade, industry, etc. 'Bidder / Contractor / Supplier / Purchaser / Customer' in the context of these guidelines is indicated as 'Agency'.
----	--



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ii)	'Inter-connected Agency' shall mean two or more companies having any of the following features:
a)	If one is a subsidiary of the other.
b)	If the Director(s), Partner(s), Manager(s) or Representative(s) are common;
c)	If management is common;
d)	If one owns or controls the other in any manner;
iii)	'Competent Authority' and 'Appellate Authority' shall mean the following:
a)	Functional Director shall be the 'Competent Authority' for the purpose of these guidelines. CMD, MDL shall be the 'Appellate Authority'.
b)	CMD, MDL shall have overall power to take suo-moto action on any information available or received by him and pass such order(s) as he may think appropriate, including modifying the order(s) passed by any authority under these guidelines.
iv)	'Investigating Department' shall mean any Department or Unit investigating into the conduct of the Agency and shall include the Vigilance Department, Central Bureau of Investigation, the State Police or any other department set up by the Central or State Government having powers to investigate.
v)	'List of approved Agencies - 'Bidder / Contractors / Suppliers / Purchasers / Customers shall mean and include list of approved / registered Agencies - 'Bidder / Contractors / Suppliers / Purchasers / Customers, etc.

4. Initiation of Banning / Suspension

	Action for banning / suspension business dealings with any Agency should be initiated by the department having business dealings with them after noticing the irregularities or misconduct on their part. Besides the concerned department, Vigilance Department may also be competent to initiate such action.
--	---

5. Suspension of Business Dealings

5.1	If the conduct of any Agency dealing with MDL is under investigation by any department, the Competent Authority may consider whether the allegations under investigation are of a serious nature and whether pending investigation, it would be advisable to continue business dealing with the Agency. If the Competent Authority, after consideration of the matter including the recommendation of the Investigating Department, if any, decides that it would not be in the interest to continue business dealings pending investigation, it may suspend business dealings with the Agency. The order to this effect may indicate a brief of the charges under investigation. If it is decided that inter-connected Agencies would also come within the ambit of the order of suspension, the same should be specifically stated in the order. The order of suspension would operate for a period not more than six months and may be communicated to the Agency as also to the Investigating Department. The Investigating Department may ensure that their investigation is completed and whole process of final order is over within such period.
5.2	The order of suspension shall be communicated to all Commercial Departmental Heads. During the period of suspension, no business dealing may be held with the Agency.
5.3	As far as possible, the existing contract(s) with the Agency may continue unless the Competent Authority, having regard to the circumstances of the case, decides otherwise.
5.4	If the gravity of the misconduct under investigation is very serious and it would not be in the interest of MDL, as a whole, to deal with such an Agency pending investigation, the Competent Authority may order suspension of business dealing with Agency and send his recommendation to Chief Vigilance Officer (CVO), MDL along with the material available, copy of which may be issued to the Agency concerned with intimation to CVO MDL. Such an order would operate for a period of six months from the date of issue.
5.5	If the Agency concerned asks for detailed reasons of suspension, the Agency may be informed that its conduct is under investigation. It is not necessary to enter into correspondence or argument with the Agency at this stage.
5.6	It is not necessary to give any show-cause notice or personal hearing to the Agency before issuing the order of suspension. However, if investigations are not complete in six months' time, the Competent Authority may extend the period of suspension by another three months, during which period the investigations must be completed.

6. Ground on which Banning of Business Dealings can be initiated

6.1	If the security consideration, including questions of loyalty of the Agency to the State, so
-----	--



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

	warrants;
6.2	If the Director / Owner of the Agency, proprietor or partner of the firm, is convicted by a Court of Law for offences involving moral turpitude in relation to its business dealings with the Government or any other public sector enterprises or MDL, during the last five years;
6.3	If there is strong justification for believing that the Directors, Proprietors, Partners, owner of the Agency have been guilty of malpractices such as bribery, corruption, fraud, substitution of tenders, interpolations, etc;
6.4	If the Agency continuously refuses to return / refund the dues of MDL without showing adequate reason and this is not due to any reasonable dispute which would attract proceedings in arbitration or Court of Law;
6.5	If the Agency employs a public servant dismissed / removed or employs a person convicted for an offence involving corruption or abetment of such offence;
6.6	If business dealings with the Agency have been banned/blacklisted by Government Agencies/ Statutory bodies, DGQA, Defence Shipyards, DPSUs or with whom commercial transactions have been suspended for sufficient and justifiable reasons.
	If the Agency having same promoters/Directors /Partners as the barred/blacklisted Company as at 6.6 above for the duration for which the barring/ blacklisting of sister concern persists.
6.7	If the Agency has resorted to Corrupt, fraudulent practices including misrepresentation of facts; If the agency who had fraudulently dealt with the Company for pecuniary gains or had connived with dealing officers for mutual benefit.
6.8	If the Agency uses intimidation / threatening or brings undue outside pressure on the MDL or its official in acceptance / performances of the job under the contract;
6.9	If the Agency indulges in repeated and / or deliberate use of delay tactics in complying with contractual stipulations;
6.10	Wilful indulgence by the Agency in supplying sub-standard material irrespective of whether pre-dispatch inspection was carried out by MDL or not;
6.11	Based on the findings of the investigation report of CBI / Police against the Agency for malafide / unlawful acts or improper conduct on his part in matters relating to the MDL or even otherwise;
6.12	Established litigant nature of the Agency to derive undue benefit;
6.13	Continued poor performance of the Agency in several contracts;
6.14	If the Agency misuses the premises or facilities of the MDL, forcefully occupies, tampers or damages the Company's properties including land, water resources, forests / trees, etc. If the Agency who knowingly collude to defeat competition with the aim of deriving undeserved profit or gain from doing business with MDL. (Note: The examples given above are only illustrative and not exhaustive. The Competent Authority may decide to ban business dealing for any good and sufficient reason).

7. Banning of Business Dealings

7.1	Decision to ban business dealings with any Agency would apply throughout the Company.
7.2	There will be a Standing Committee to be appointed by the CMD which may include HOD of respective Commercial Section/Capital Works/OTS, HOD (M), rep of Legal Dept. and OIC (SR&R) for processing the cases of "Banning of Business Dealings". The functions of the committee shall, inter-alia include:
	i) To study the report of the Investigating Agency and decide if a prima-facie case for banning exists, if not, send back the case to the Competent Authority.
	ii) To recommend for issue of show-cause notice to the Agency by the concerned department.
	iii) To examine the reply to show-cause notice and call the Agency for personal hearing, if required.
	iv) To submit final recommendation to the Competent Authority for banning or otherwise.
7.3	If the Competent Authority is prima-facie of view that action for banning business dealings with the Agency is called for, a show-cause notice may be issued to the Agency as per paragraph 9.1 and an enquiry held accordingly.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

8 Removal from List of Approved Agencies - Suppliers / Contractors, etc.

8.1	If the Competent Authority decides that the charge against the Agency is of a minor nature, it may issue a show-cause notice as to why the name of the Agency should not be removed from the list of approved Agencies - Suppliers / Contractors, etc.
8.2	The effect of such an order would be that the Agency would not be disqualified from competing in Open Tender Enquiries but LTE may not be given to the Agency concerned.
8.3	Past performance of the Agency may be taken into account while processing for approval of the Competent Authority for awarding the contract.

9. Show-cause Notice

9.1	In case where the Competent Authority decides that action against an Agency is called for, a show-cause notice has to be issued to the Agency. Statement containing the imputation of misconduct or misbehavior may be appended to the show-cause notice and the Agency should be asked to submit within 15 days a written statement in its defence.
9.2	If the Agency requests for inspection of any relevant document in possession of MDL, necessary facility for inspection of documents may be provided.
9.3	The Competent Authority may consider and pass an appropriate speaking order:
	a) For exonerating the Agency if the charges are not established;
	b) For removing the Agency from the list of approved Suppliers / Contractors, etc.
	c) For banning the business dealing with the Agency.
9.4	If it decides to ban business dealings, the period for which the ban would be operative may be mentioned. The order may also mention that the ban would extend to the interconnected Agencies of the Agency.

10. Appeal against the Decision of the Competent Authority

10.1	The Agency may file an appeal against the order of the Competent Authority banning business dealing, etc. The appeal shall lie to Appellate Authority. Such an appeal shall be preferred within one month from the date of receipt of the order banning business dealing, etc.
10.2	Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the Agency as well as the Competent Authority.

11. Review of the Decision by the Competent Authority

	Any petition / application filed by the Agency concerning the review of the banning order passed originally by Competent Authority under the existing guidelines either before or after filing of appeal before the Appellate Authority or after disposal of appeal by the Appellate Authority, the review petition can be decided by the Appellate Authority upon disclosure of new facts / circumstances or subsequent development necessitating such review. The Competent Authority may refer the same petition to the separate Standing Committee which may be constituted by Appellate Authority for examination and recommendation.
--	--

12. Circulation of the names of Agencies with whom Business Dealings have been banned

12.1	Depending upon the gravity of misconduct established, the Competent Authority may direct HOD (Materials)/OIC (SR&R) to circulate the names of Agency with whom business dealings have been banned, to the Government Departments, other Public Sector Enterprises, etc. for such action as they deem appropriate.
12.2	If Government Departments or a Public Sector Enterprise request for more information about the Agency with whom business dealings have been banned, a copy of the report of Inquiring Authority together with a copy of the order of the Competent Authority / Appellate Authority may be supplied.
12.3	If business dealings with any Agency have been banned by the Central or State Government or any other Public Sector Enterprise, MDL may, without any further enquiry or investigation, issue an order banning business dealing with the Agency and its interconnected Agencies.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ANNEXURE-2

Performance Security (PS) Bank Guarantee Format

(ILLUSTRATIVE FORMAT)

(On Non-Judicial stamp paper of value Rs. 500/-. However, the value of stamp paper to be confirmed from Legal Department, MDL.)

IN CONSIDERATION OF MAZAGON DOCK SHIPBUILDERS LIMITED, a company incorporated under the Companies Act 1956 and having its registered office at Dockyard Road, Mumbai 400010 (hereinafter referred to as the "the Purchaser" which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors and assigns) having placed an order on Messers a partnership firm/sole proprietor business/a company registered under the Companies Act, 1956 having its office at(hereinafter called " the Contractor/ Supplier" which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors and assigns) vide order No..... dated..... (hereinafter called "the order" which expression shall include any amendments/alterations to "the order" issued by "the Purchaser") for the supply , delivery at site, installation and commissioning of certain equipment, item/services/civil works etc. as stated in the said Order and the Purchaser having agreed with the Contractor/Supplier to accept a Bank Guarantee in lieu of Performance Security payable under the said order for the fulfillment and performance of the said order, We, Bank having office at

..... (hereinafter referred to as "the Bank" which expression shall include its successors and assigns) hereby agree to pay to the Purchaser without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) being 5% (10% in case of Capital Procurement) of the order value against any loss or damage, costs, charges and expenses caused to or suffered by the Purchaser by reason of nonperformance and non-fulfillment or for any breach on the part of the Contractor / Supplier of any of the terms and conditions of the said order.

2. We, Bank further agree that the Purchaser shall be sole judge whether the said Contractor/Supplier has failed to perform or fulfil the said order in terms thereof or committed breach of any terms and conditions of the order and the extent of loss, damage, cost, charges and expenses suffered or incurred or would be suffered or incurred by the Purchaser on account thereof and we waive in the favor of the Purchaser all the rights and defenses to which we as guarantors may be entitled to.

3. We, Bank further agree that the amount demanded by the Purchaser as such shall be final and binding on the Bank as to the Bank 's liability to pay and the amount demanded and the Bank undertake to pay the Purchaser the amount so demanded on first demand and without any demur notwithstanding any dispute raised by the Contractor/Supplier or any suit or other legal proceedings including arbitration pending before any court, tribunal or arbitrator relating thereto, our liability under this guarantee being absolute and unconditional.

4. We, Bank further agree with the Purchaser that the Purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order/or to extend time of performance by the Supplier from time to time or to postpone for any time to time any of the powers exercisable by the Purchaser against the Contractor/ Supplier and to forbear to enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to the Contractor/ Supplier or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the Contractor/Supplier or by any such matter or things whatsoever which under the law relating to sureties would have the effect of relieving us.

5. We, Bank further undertake not to revoke this guarantee during its currency except with the previous consent of the Purchaser in writing.

6. We, Bank also agree that the Bank's liability under this guarantee shall not be affected by any change in the constitution of the Contractor / Supplier or dissolution or winding up of the business of the contractor/ supplier.

7. Notwithstanding anything contained herein above:

- i) Our liability under this guarantee shall not exceed Rs.....
- ii) This Bank Guarantee shall be valid upto and including; and



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

iii) We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before (validity + 60 days from the date of expiry of this guarantee).

8. This Guarantee shall be governed by Indian laws and the Courts at Mumbai, India shall have the exclusive jurisdiction.

IN WITNESS WHEREOF the Bank has executed this document on this.....day of
.....

For Bank
(by its constituted attorney)

(Signature of a person authorized
to sign on behalf of "the Bank")



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ANNEXURE-4

Details for Remittance towards PS

1. **MDL'S BANK ACCOUNT DETAILS:**

NAME OF BANK A/C HOLDER: **MAZAGON DOCK SHIPBUILDERS LTD**

BANK AND BRANCH : **STATE BANK OF INDIA, COMMERCIAL BRANCH, FORT,
MUMBAI-400023**

TYPE OF ACCOUNT : **CURRENT**

BANK ACCOUNT NO : **11079519138**

IFSC CODE : **SBIN0006070**

SWIFT CODE : **SBININBB101**

2. **DETAILS OF REMITTANCE TO MDL'S BANK ACCOUNT:**

(To be filled in by the vendors/firms making remittance of funds in MDL'S Bank Account)

Date of Remittance	Name of Firm	Vendor Code	MDL tender/ PO. Ref No.	Nature of Remittance viz. EMD/PS etc.	Amount Remitted (`)

Signature of Vendor/Representative

3. **SAP Parked Document No:** _____ **Date:** _____

(To be filled in by MDL's Commercial Executive)

Sr. No.2 and 3 above will be filled in by the Vendor and MDL commercial Executive respectively and the form forwarded to Treasury Section for posting of SAP Document to the respective Bank Account



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ANNEXURE-5

Official Secret Act 1923

(ILLUSTRATIVE FORMAT)

SECTION 2(B) : "PROHIBITED PLACE"

It is defined as the place of any work of Defence Dockyard and other so belonging or occupied and used for the purpose of building, repairing, making or storing any ammunitions of war.

For the purpose of the above definition, sketch includes any photograph or other mode of representing any place or thing.

SECTION 3 : "PENALTIES FOR SPYING"

If any per unlawfully -

- a) approaches, inspects, passes over or is in the vicinity of any clear place; or
- b) make any sketches intended to be directly or indirectly useful to an enemy; or
- c) obtains, collects, records or communicates to any other person any secret official code.

Shall be liable for imprisonment of 14 years in case of Defence Installation.

SECTION 4 : "COMMUNICATION WITH FOREIGN AGENTS"

If Any person has been in communication with or attempted to communicate with foreign agents regarding the vital information of any "PROHIBITED PLACE" would be guilty of violating the provisions of this Act.

SECTION 5 : "WRONGFUL COMMUNICATION OF INFORMATION"

If any person having in his possession or control any official document;

- a) Willfully communicates to any person, other than a person, who is authorised to communicate it.
- b) Used the information in his possession for the benefit of any foreign power.
- c) Retain in his possession when he has no power to retain it
- d) Fails to take reasonable care of it.

Shall be guilty of an offence under this Act.

SECTION 6 : "UNAUTHORISED USE OF UNIFORMS"

If any person for the purpose of gaining admission or of assisting any other person to gain admission to a "PROHIBITED PLACE" wears uniforms without lawful authority shall be guilty of offence under this Section.

SECTION 7 : "INTERFERING WITH OFFICERS OF POLICE"

No person in the vicinity of any "PROHIBITED PLACE" shall abstract any Police Officer engaged on guard, sentry or similar duty. If any person move in the provisions of this section, shall be punishable with imprisonment, which may extend up to 3 years.

SECTION 8 : "DUTY OF GIVING INFORMATION"

It shall be duty of every person to give on demand to a superintendent of Police or any other Police Officer not below the rank of Inspector, any information in his power relating to an offence under this Act.

If any person fails to give such information, shall be punishable with imprisonment to 3 years or fine or with both.

SECTION 9 : "INCITEMENT"

Any person who attempts to commit or debate the commission of an offence under this Act shall be punishable with the same punishment and be liable to be proceeded against in the same manner as if he had committed such offence.

SECTION 10 : "PENALTY FOR HARBOURING SPIES"

If any person whom he knows or has reasonable grounds for supposing to be person who is about to commit or who has committed offence under this Act shall be guilty of offence under this Section.

SECTION 11 : "SEARCH WARRANTS"

If a presidency Magistrate, Magistrate First Class or Sub-Divisional magistrate is satisfied with the information that there is reasonable ground for suspecting that an offence under this Act has



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

been or is about to be committed, he may grant search warrant to any Police Officer to enter at any time any premises to force to search premises or the places.

Note: Based on the Illustrative Format as above, the concerned Dealing Officer / HOD(C) may formulate / design the required forms / documents / tender enquiries / registers / STACS / pro-forma to suit to the requirements on case to case basis in line with the corresponding articles in Purchase Manual Volume-I.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120
Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302
Type of tender: Limited Tender

ANNEXURE-6

Format for Compliance Certificate w.r.t. Land Border Clause

Declaration of Compliance of Order (Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

This declaration must form part of all tenders & it contains general information and serves as a declaration form for all bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt Directives applicable in respect of Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 and OM No F.7/10/2021/-PPD(1) dated 23.02.2023 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017& prescribed tender conditions).

DECLARATION BY AUTHORISED SIGNATORY OF THE FIRM

I, the undersigned, (full names),
do hereby declare, in my capacity as
of M/s(name
of bidder entity), that:

- 1) The facts contained herein are within my own personal knowledge.
- 2) I have read the Order (Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 and OM No F.7/10/2021/-PPD(1) dated 23.02.2023 on the subject of Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order
- 3) I certify that M/s(name of bidder entity) **is not from such a country or, is from such a country** (strike out whichever is not applicable). I hereby certify that this SUPPLIER fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority is attached]
- 4) I understand that the submission of incorrect data and / or if certificate / declaration given by M/s(name of bidder entity) is found to be false, this would be a ground for immediate termination and further legal action in accordance with law as per Clause 12 of the Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

AUTHORISED SIGNATURE: _____ **DATE:** _____

Seal / Stamp of Bidder



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ANNEXURE-7

TEF (TENDER ENQUIRY FORMAT) ACCEPTANCE FORMAT:

To,

Mazagon Dock Shipbuilders Limited

TEF CLAUSE No.	BIDDER'S REMARK	TEF CLAUSE No.	BIDDER'S REMARK
	ACC. / DEV.		ACC. / DEV.
1		2	
3		4	
5	Not Applicable	6	
7		8	
9		10	Not Applicable
11		12	
13		14	
15		16	
17	Not Applicable	18	
19	Not Applicable	20	Not Applicable
21		22	Not Applicable
23		24	
25		26	
27		28	
29	Not Applicable	30	Not Applicable
31	Not Applicable	32	
33		34	
35		36	
37		38	
39		40	
41		42	
43		44	
45			

COMPANY'S NAME & ADDRESS:

SIGNATURE:

DATE:

NAME:

DESIGNATION:

BIDDER'S COMPANY SEAL:

NOTE:

1. Bidders should carefully read the Terms & Conditions of the Tender Enquiry Form (TEF) prior to filling up this acceptance format.
2. This format should be properly filled, signed and bidder shall upload the scanned copy of the same online.
3. Bidder(s) should indicate "ACC" for Accepted, "DEV" for Deviation Taken for each clause number in the above table.
4. Bidder(s) to attach Separate Sheet indicating all relevant details such as Number & description of the Clause, Reasons for Deviation and Alternative suggested for any deviations taken by them.
5. Clause numbers shown in the above format also includes the sub-clauses under these clauses.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ANNEXURE-8

ACCEPTANCE OF GENERAL CONDITIONS OF CONTRACT (GCC) FOR SERVICES

To,

Mazagon Dock Shipbuilders Limited

GT & C Clause No.	Bidder's Remark	GT & C Clause No.	Bidder's Remark	GT & C Clause No.	Bidder's Remark
	Acc. / Dev.		Acc. / Dev.		Acc. / Dev.
1		15		29	
2		16	Not Applicable	30	
3		17		31	
4		18		32	
5		19		33	
6	Not Applicable	20		34	
7	Not Applicable	21		35	
8		22		36	
9		23		37	
10		24		38	
11	Not Applicable	25			
12	Not Applicable	26			
13	Not Applicable	27			
14		28			

COMPANY'S NAME & ADDRESS:

SIGNATURE:

DATE:

NAME:

DESIGNATION:

BIDDER'S COMPANY SEAL:

NOTE:

1. Bidders should carefully read the GCC prior to filling up this acceptance format (available on MDL Web site).
2. This format should be properly filled, signed and bidder shall upload the scanned copy of the same online
3. Bidder(s) should indicate "ACC" for Accepted, "DEV" for Deviation Taken for each clause number in the above table.
4. Bidder(s) to attach Separate Sheet indicating all relevant details such as Number & description of the Clause, Reasons for Deviation and Alternative suggested for any deviations taken by them.
5. Clause numbers shown in the above format also includes the sub-clauses under these clauses.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ANNEXURE-9

TERMS RELATED TO TAXES (GST)

1. GST as per GST Laws shall be payable extra as quoted and agreed.
2. In case of purchases of goods/services from unregistered dealers under GST Laws, GST will be paid by MDL under reverse charge mechanism.
3. Benefits from reduction in rate of tax/ITC are required to be passed on to consumer. Where "applicable GST" has been quoted as extra, Goods and service providers (except un-registered dealers under GST Law) have to submit declaration that they have complied with 'Anti-profiteering clause' under GST Law. Such declaration be given in technical bid.
4. If the vendor is registered under GST, vendor shall mention the HSN code for goods &/or services in their tax invoice, etc. These codes must be in accordance with GST Laws and responsibility of specifying correct HSN codes for goods &/or services is that of the vendor. MDL shall not be responsible for any error in HSN code for goods &/or services specified by supplier / contractor. Supplier /Contractor shall pay penalty and/ or interest imposed on MDL or any loss due to delay in availing ITC by MDL or any loss of ITC to MDL due to errors by vendors at any stage. MDL reserves right to recover any such interest, penalty or loss from any amount due to Supplier /Contractor or otherwise.
5. In case, MDL is unable to avail ITC, supplier/contractor at their own cost shall rectify the shortcoming in the returns to be filed immediately thereafter. Further, if the ITC is delayed / denied to MDL / reversed subsequently as per GST Laws due to non / delayed receipt of goods and / or services and / or tax invoice or expiry of timelines prescribed in GST Laws for availing ITC, non-payment of taxes or non-filing of returns or any other reason not attributable to MDL, Supplier /Contractor shall pay any loss of amount along with interest and penalty on MDL under GST Laws for the number of days the ITC was delayed. If the short coming is not rectified by supplier/contractor and MDL ends up in reversal of credits and / or payments, supplier /contractor is fully liable for making good all the loss incurred by MDL. MDL reserves right to recover any interest, penalty or loss from any amount due to Supplier /Contractor or otherwise.
6. If the vendor is registered under GST, the GST registration number (15 digit GSTIN) issued by GOI shall be mandatorily provided by the vendor. Vendor having multiple business verticals within state / at multiple states with separate GST registration numbers shall forward GSTIN of only that vertical which is involved in supply of goods and/or services. MDL GSTIN is 27AAACM8029J1ZA and vendor shall mention the same while invoicing and avoid any data entry error on GST Gem portal.
7. If the vendor is registered under GST, Vendor shall ensure timely submission of invoice as per the provisions / requirement / timeline promulgated by GOI in relation to GST Law with all required supporting documents to enable MDL to avail input tax credit promptly. The vendors invoice inter alia should contain GSTIN of vendor, GSTIN of MDL (i.e. 27AAACM8029J1ZA), GST tax rate separately, HSN code wise goods or services, place of supply, signature of vendor, etc. Original invoice needs to be submitted to Bill Receipt Centre at MDL gate, and a copy of the invoice should be given to the goods receiving section(GRS).
8. If the vendor is registered under GST, vendor shall file all applicable returns under GST Laws in the stipulated time & any losses of tax credit to MDL arising due to delay in filing will be recovered from their invoice wherever MDL is eligible to avail tax credit. Any default towards payment of tax and / or uploading of monthly returns by supplier/contractor, MDL retains right to withhold payments towards tax portion until the same is corrected & complied by the supplier/contractor with the requirement of GST along with satisfactory evidence.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

9. The rate sheet enclosed with the tender will indicate the rates to be entered under each head wherever applicable. Bidders must clearly mention the applicable Taxes & Duties. The item-wise rates (i.e. Basic+P&F+F&I) quoted in the Rate Sheet should exclude Taxes & Duties. Bidder should indicate GST rates as applicable separately under each of the head in the same Rate sheet, which will be paid extra based on tax invoice to the extent applicable. The GST will be applicable on total basic rate of each item (i.e. Basic + P&F + F&I).

COMPANY'S NAME & ADDRESS:

SIGNATURE:

DATE:

NAME:

DESIGNATION:

BIDDER'S COMPANY SEAL:



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120
Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302
Type of tender: Limited Tender

ANNEXURE-10

DECLARATION CERTIFICATE FOR LOCAL CONTENT

This declaration must form part of all tenders & it contains general information and serves as a declaration form for all bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt Directives applicable in respect of Local Content & prescribed tender conditions).

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID / TENDER

No......

ISSUED BY: (Name of Firm):

.....

NB: The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

I, the undersigned, (full names), do hereby declare, in my capacity as

of(name of bidder entity), the following:

(a) The facts contained herein are within my own personal knowledge.

(b) I have read and understood the requirement of local content (LC) and same is specified as percentage calculated in accordance with the definition provided at clause 2 of revised Public Procurement (preference to Make in India) Order 2017.

“Local content” as per above order means the amount of value added in India which shall be the total value of items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value in percent.”

(c) I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified bid comply with the local content requirements as specified in the tender for ‘Class-I Local Supplier’ / ‘Class-II Local Supplier’, and as above.

(d) The local content calculated using the definition given above are as under:

Tender Item Sr No	Local content calculated as above %	Location of local value addition
All line items of tender	100%	Mumbai

Attach separate sheet duly signed if space is not sufficient



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

NB: Local content percentage shall be declared item wise or tender wise strictly as per the terms of the tender. If data other than as filled in TABLE above then bidder should fill up separately by making changes as the case may be.

(f) I accept that the Procurement Authority / Institution / MDL / Nodal Ministry has the right to request that the local content be verified in terms of the requirements of revised Public Procurement (preference to Make in India) Order 2017 dtd 16.09.2020 and I shall furnish the document / information on demand. Failure on my part to furnish the data will be treated as false declaration as per PPP MII Order 2017. In case of contract being awarded, I undertake to retain the relevant documents for 7 years from date of execution.

(g) I understand that the submission of incorrect data, or data that are not verifiable as described in revised Public Procurement (preference to Make in India) Order 2017, may result in the Procurement Authority / Nodal Ministry / MDL imposing any or all of the remedies as provided for in Clause 9 of the Revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020

SIGNATURE: _____

DATE: _____

Seal / Stamp of Bidder



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ANNEXURE-11

Bidder's undertaking for conflicts of Interest

I/We(Name).....in capacity of
(Post/Designation)For
M/s....., hereby confirm that we have

read and understood the tender clauses related to "Conflicts of interests
for bidders" and confirm that our Firm

M/s..... is not in conflict
of interest with other bidders/agents in any way.

COMPANY'S NAME & ADDRESS:

SIGNATURE:

DATE:

NAME:

DESIGNATION:

BIDDER'S COMPANY SEAL:



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

[Section V - Scope of Work](#)

[As detailed below](#)

SCOPE OF WORK
FOR OUTSOURCING THE SHORT REFIT
(SR-1) ACTIVITIES OF
INDIAN COAST GUARD SHIP ICGS VIKRAM



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

TABLE OF CONTENTS

1. INTRODUCTION
2. DEFINATION AND ABBREVIATION
3. EFFECTIVE DATE AND OPERATION OF CONTRACT
4. TECHNICAL PQ CRITERIA
5. SCOPE OF CONTRACT
6. DURATION OF THE DELIVERY
7. LIQUIDATED DAMAGES
8. QUALITY AND INSPECTION
9. WARRANTY & WARRANTY BOND
10. GENERAL INSTRUCTIONS
11. DETAILED SCOPE OF WORK
12. MATERIAL OF CONSTRUCTION
13. INDEMNITY & INSURANCE
14. WORK DONE CERTIFICATE
15. WORK SCHEDULE & MOBILISATION
16. ROLES AND RESPONSIBILITY
17. SPECIAL INSTRUCTIONS
18. RISK AND EXPENSE CLAUSE
19. NON DISCLOSURE AGREEMENT (NDA)
20. SECURITY
21. REFERENCES
22. RESPONSIBILITY MATRIX



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

1. **INTRODUCTION**

1.1 Mazagon Dock Shipbuilders Limited (MDL) is a premier Shipbuilding Yard in India, located in Mumbai, under the Administrative control of Department of Defence Production, Ministry of Defence, Government of India.

1.2 The Short refit of ICGS VIKRAM shall be undertaken both under water & above water (Dry Docking of both the versions and Berthing) at Mogul Dry Dock, South Yard MDL, Mumbai.

1.3 The Short refit of Indian Coast Guard Ship ICGS VIKRAM shall be carried out in accordance with the Full & Final remarks of RFIC Defect Lists (DLs) and other related terms & conditions of the contract mentioned detail in the subsequent paragraph.

1.4 **PARTICULARS OF VESSEL**

Name of the Vessel	:	ICGS VIKRAM (Base Port – New Mangalore)
Built by	:	M/s L & T
Date of Commissioning	:	11 Apr 2018
Overall Length	:	98.2 Mtrs
Breadth Max	:	14.9 Mtrs
Draught mean	:	Design – 3.53 Mtrs
Propeller Draught	:	4.43 Mtrs
Speed (Max)	:	26 knots
Displacement (full load)	:	2163 T

2. **DEFINATION AND ABBREVIATION**

2.1 The following words and expressions in this Contract including its Annexes shall have the meanings as hereinafter defined unless the context requires otherwise: -

Actuals : The term Actuals, related to payment, shall mean all expenses, inclusive of those incurred towards associated cost elements such as all taxes, duties & levies, freight, insurance and clearance charges etc. incurred by the contractor and computed at the prevailing exchange rate wherever applicable, at the time of release of payments by the contractor to the OEMs.

Certificate: The Certificate to be signed jointly by the representatives of the contractor of and the CUSTOMER on the Date of Delivery of the Ship as set out in para 6.

Contract: Shall mean this Contract including its Preamble 1 to 22.

Contractor: Awarded Refitting firm

Customer: ICG / M/s MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI-10

Material: The term Material shall mean all equipment, fittings, finished / semi-finished products, spares, consumables, Yard material, items, sub-assemblies/ assemblies, documentation etc. required for the removal, repair & refurbishment, Refit/ installation and testing of any part of the work being undertaken by the contractor (and /or by his Subcontractors on his behalf) as per scope of his work defined in this contract up to completion of the guarantee period and liquidation of his outstanding liabilities.

Month: Any calendar month, as defined in the Gregorian Calendar, or any period of 30 consecutive Days.

Yard: Contractor

Year: Year starting from the 1st January and ending on 31st December or any period of 12 consecutive Months, as the case may be.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

2.2 The following words and abbreviations in this contract including its annexes shall have the meanings as hereinafter defined unless the context requires otherwise: -

ABER	Anticipatory Beyond Economical Repairs
A'S & A'S	Additions and Alterations
BER	Beyond Economic repairs
B & DSpares	Base & Depot spares
CNC	Contract Negotiation Committee
COA	Contract Operating Authority
DCD	Dockyard Completion Date
DL	Defect List
DPSU	Defence Public Sector Unit
FAT	Factory Acceptance Trials
HAT	Harbour Acceptance Trials
ICG	Indian Coast Guard
IFA	Integrated financial adviser
MOD	Ministry of Defence
OBS	On Board Spares
OEM	Original Equipment Manufacturer
PAC	Proprietary Article Certificate
QAP	Quality Assurance Plan
RFIC	Request for information conference
R&R	Remove and Refit
SAT	Sea Acceptance Trials
STW	Setting to Work
TEC	Technical Evaluation Committee
TOC	Tender Opening Committee
WCC	Work Completion Certificate
WDC	Work Done Certificate

3. **EFFECTIVE DATE AND OPERATION OF CONTRACT**

3.1. It is hereby agreed and declared that the powers and functions of the Customer under this Contract, shall be exercised by HOD [SB- Repairs & Refit].

3.2. **The refit duration for the vessel is 120 (one hundred and twenty) calendar days** (tentatively from 10 Jan 2024 to 08 May 2024) only. The Effective Date of Contract during this period would be the date of handing over of the vessel/ship to the Refitting firm or one-day prior docking of ship at MDL, whichever is earlier. Contractor shall complete all the repair/refit activities (including dry-dock period of both the versions, Basin trials, sea trials and liquidation of GDs during guarantee period) and hand over the vessel to ICGS/MDL within the specified time period.

4. **TECHNICAL QUALIFICATION CRITERIA:**

Not Applicable.

5. **SCOPE OF CONTRACT:** Following tasks are envisaged from the Refitting firm:

5.1. **Scope of Work.**

5.1.1 The Short Refit of Indian Coast Guard Ship ICGS VIKRAM to be Completed in accordance with the Full & Final remarks of RFIC Defect Lists (DLs) terms, conditions and provisions of this Contract, as detailed in the following paras.

5.1.2 The Scope of work with item wise DLs are placed at **Annexure - II** and Extract RFIC MoM at **Annexure - I** of this Contract.

5.2. **Removal and Refitting of Items**

5.2.1 In the event of the requirement to remove the existing light fittings, piping, trunking, valves, electrical cables, junction boxes, lagging, paneling, obstructions,



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

protrusions, foundations, etc. falling in the way of repairs, temporarily to facilitate completion of scope of work, the contractor shall reinstall the same as per drawings, amendments thereto and to the satisfaction of the CUSTOMER. All work associated with this Article forms an integral part of Scope of Work specified in the scope of work at para 5.1.2.

5.2.2 Electrical cables in way of repairs, if required, are to be covered adequately for protection against accidental mechanical / fire damage, by the contractor. Damages caused during the execution of the work by the contractor or his sub-contractors are to be made good by the contractor at his cost.

5.2.3 All pipe lines/fittings which are not required to be taken out of the Ship are to be properly covered / secured to ensure they are not damaged during the course of the refit. Damages caused during the execution of the work by the contractor or his sub- contractor are to be made good by the contractor at his cost.

5.3. **Change in Scope of Work**

5.3.1 Notwithstanding the scope of work specified in scope of work, the CUSTOMER shall have the right to modify the Scope of Work during the execution of the Contract. The necessity for repairs/ renewals / replacements other than those presently included in the Scope of Work may arise during the inspection/survey/repair. All such work as also consequential work (re-work) required to be done by the contractor along with work arising out of items/drawings supplied by the CUSTOMER shall be treated as the part of scope of work.

5.3.2 MDL will have right to delete jobs covered under AIAMC from the refit package even after commencement of refit. The contractor will not have any objection on working of reps of firms executing AIAMC during the refit and will assist ship staff to arrange necessary security approvals.

5.3.3 Any changes in the scope of work and the cost and time implications thereof shall be mutually agreed upon on priority, in writing, before undertaking such changes in the scope of work. The resultant increase in cost as well as any extension in project duration will be intimated by the contractor and shall be agreed and accepted by the customer through mutual negotiations prior to undertaking such changes in scope of work.

5.3.4 In case promulgation of such change in Scope of work affects the initial scope of work as per Para 5.1 and 5.2.1 and/ or additional scope of work as per para 5.3.1, the cost and time implications due to such changes, shall also be taken in to consideration by both the Parties, while promulgating the change in Scope of work in accordance with para 5.2.

5.4. **Procurement of Material by the CONTRACTOR**

5.4.1 All materials and Items shall be arranged/procured by the contractor as per the scope of work, except where specifically indicated that such items are customer supplied, are to conform to the relevant approved and applicable specifications.

5.5. **RETURN OF UNUSED MATERIAL:** All ferrous & Non Ferrous scrap arising out of refit/repairs shall be the property of MDL/Customer.

5.6. **SUBCONTRACTING**

5.6.1 The Refitting firm may subcontract any part of scope of work on mutual agreement with MDL. The Refitting firm can under no circumstance subcontract the complete scope of work to a third party.

5.6.2 Proprietary Article Certificate (PAC)/OEM: The job on machinery and equipment listed below shall be undertaken through indicated OEM/PAC firms only.

Sl.	Equipment	OEM/PAC/ Competent Firm
(a)	CPP and shafting	M/s Schottel Germany
(b)	Main Engine along with Controls	M/s MTU India, Pune
(c)	Gear Box along with controls	M/s Siemens, Germany
(d)	Diesel Engine	M/s KOEL, Pune



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(e)	DA Controls	M/s KOEL, Pune
(f)	Main switch board	M/s L & T, Chennai
(g)	FO Centrifuge	M/s GEA Westfallia, Germany / M/s GEA Westfallia, Gurgaon
(h)	HP Air compressor	M/s Sperre
(j)	Emergency HP Air compressor	M/s Sperre
(k)	OBW separator	M/s Environmental protection engineering, Greece / M/s Vacman Sanitation Solution Pvt Ltd.
(l)	AC Plant	M/s H & H, Kolkata
(m)	AC compressor	M/s H & H, Kolkata
(n)	Ref Plant	M/s H & H, Kolkata
(p)	Fin Stabilizer	M/s L & T
(q)	RO plant	M/s Technicomar, Italy / M/s KNH, Mumbai
(r)	Incinerator	M/s Detegasa
(s)	FM 200	M/s Tyco Fire & Security (I) Pvt Ltd / M/s Johnson Controls (I) Pvt Ltd, Thane
(t)	Diving air compressor	M/s Aerotechnica Coltri, Italy / M/s Jyotech Engg & Marketing, Noida
(u)	Steering Gear	M/s Damen Marine Components, Netherland / M/s KNH, Mumbai
(v)	Sea boat davits	M/s MacGregor & HMD, Norway
(w)	OBM	M/s Mercury, USA/ M/s Mercury, Singapore/ M/s Mukum Marine Pvt Ltd, Chennai (authorised firm)
(x)	Fi-Fi Pump	M/s FFS
(y)	PC Crane	M/s West Marine Engg Pvt Ltd, Singapore
(z)	WHR Plant	M/s Sondex, Savil, Vadodara
(aa)	Glide Path Indicator	M/s Ama Pvt Ltd. Mumbai
(ab)	ICAF	M/s Cathelco
(ac)	Echo sounder	M/s Norinco Pvt Ltd, Mumbai
(ad)	Emergency DG	M/s KOEL, Pune
(ae)	Gyro	M/s MEPL
(af)	Magnetic compass	M/s MEPL
(ag)	Bow thruster	M/s ZF Marine
(ah)	AFDS	M/s Tyco
(aj)	Water mist and Wet Chemical	M/s Tyco
(ak)	Fire & Sprinkling pump/ Bilge & Ballast Pump	M/s Desmi (I) Pvt Ltd Nadergul, Telangana

Note: Deviation from the above, if unavoidable, however may be considered with prior approval of competent Indian Coast Guard authority.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

5.6.3 The supervision of work for the sub-contracted jobs are to be done by the Refitting firm. The Refitting firm is not permitted to seek any extension of completion date citing delay on the part of sub-contractors or re-work arising out of sub-contracted work.

5.6.4 **EMPLOYMENT OF SERVICE PERSONNEL:** The Refitting firm shall not employ any service personnel of the MDL and Indian Coast Guard working (presently on roll of MDL/ ICG) or on his own take any assistance either directly or indirectly from any of the workshop / facilities of the MDL & Indian Coast Guard in the form of men or material for the scope of work.

6. DURATION OF DELIVERY

6.1. **Duration of Work:** The Refitting firm shall complete the scope of work specified in the defect list in **120 Calendar days** from the effective date of work commencement/ placement of purchase order. Delivery by the Refitting firm shall be treated as complete on satisfactory Sea Acceptance Trials (SATs) and upon signing of Delivery Acceptance Certificate or Completion of Scope of Work and Trials by Indian Coast Guard.

6.2. The said duration of repair specified in para 6.1 above may be extended on mutual agreement only, with the customer shall accept the vessel/ asset without imposition of any sort of Penalty / Reduction in Contract Price.

6.3. **Incomplete Work:** The Refitting firm and the MDL shall mutually agree on the quantum of incomplete and unsatisfactory work. Cost of such incomplete work shall be withheld, except where such incomplete work is not attributable to the Refitting firm. Payment thus withheld will be made on completion of such incomplete work, which should in any case be completed within the 30 days of refit completion. If such work is incomplete beyond the 30 days of refit completion, the same shall be undertaken by the MDL under the Refitting firms risk and cost. The MDL reserves the right to levy LD on such incomplete work.

6.4. The Refitting firm shall be paid for completion of work specified in para 6.1 above only on satisfactory completion of refit.

7. LIQUIDATED DAMAGES

7.1. The Refitting firm shall be liable to pay to the CUSTOMER Liquidated Damages (LD), and not by way of Penalty, a sum equivalent to 0.5% (zero point five percent) of the Contract price for each week or part thereof of delay beyond duration of Work, up to the date of refit completion, subject to a maximum of 10% (Ten percent) of the Contract price of refit.

7.2. The Refitting firm shall be liable to pay to the MDL Liquidated Damages (LD), and not by way of Penalty, a sum equivalent to 0.5% (zero point five percent) of the cost of incomplete work beyond the date of refit completion for each week of delay and part thereof.

7.3. The sum total of LD levied due to delay or part thereof, beyond duration of work and LD levied on account of incomplete or delinked work should not be more than 10% of the contract price.

8. QUALITY AND INSPECTION

8.1. Quality Assurance & Quality Control

8.1.1 The Refitting firm would be entirely responsible for quality/ standard and timely execution of the sub-contracted work. The Refitting firm shall submit a Quality Assurance (QA) Plan as applicable to the scope of work **within 10 calendar days** from PNC conclusion or within one week of placement of purchase order for approval of the MDL. The approved QA plan will form the basis for inspection and acceptance of work executed by the contractor under this contract.

8.1.2 In order to assure the quality or repair/ refit and exercise effective control, the work executed by the Refitting firm will be in accordance with MDL & Ships staff inspection schedule as applicable followed by preliminary, stage and final inspection. The repair work will be undertaken as per specified Standards and quality norms. Ensuring and maintaining quality will be the responsibility of the Refitting firm.

8.2. Overseeing and Inspection



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

8.2.1 Necessary tests and inspections of the contracted job shall be carried out by COA/ or his nominated agency. The contractor shall give reasonable notice to the above team reasonably in advance of the date and place of such tests / inspections. COA shall also carry out joint receipt inspection of the equipment and material procured by the contractor / supplied by CUSTOMER. The CUSTOMER's representative shall, during the repairs/ refit invariably attend such tests and inspections as per the QA Plan/Quality Inspection Schedule.

8.2.2 Any non-conformity discovered by CUSTOMER representative and intimated in writing co-relating relevant documents where necessary, in repair or material or workmanship shall be corrected by the contractor at his cost, to the full satisfaction of Representative in accordance with the relevant drawings and specifications.

8.2.3 During the refit of the ship, until the delivery thereof, the CUSTOMER's representatives shall be given free and ready access to the Ship and to any other place where related work is being performed, or materials are being processed or stored, including the yards, workshops, stores and offices of the contractor and premises of Subcontractors who are doing work or storing materials, in connection with the repairs/ medium refit of the ship/ asset. Notwithstanding any provision in this Article or any other Article in this Contract, the responsibility for the refits as per the scope of work vide para 5 and 6 shall rest with the contractor.

9. WARRANTY & WARRANTY BOND

9.1 The Refitting firm warrants that the repair / short refit carried out under the contract conform to specification vide schedule of requirement(SOR) and defect list.

9.2 The Refitting firm shall give **Six months guarantee** for workmanship, material defects for items repaired / overhauled/ installation under the contract from the Contract Completion Date and **Twelve months guarantee** for new installations (if any) under the contract from the Contract Completion Date. The guarantee clause will also be applicable to the items repaired by the OEM/s/ PAC/ sub-Refitting firm of the Refitting firm. Any defects noticed during this guarantee period due to defective/ poor workmanship or sub-standard material shall be rectified free of cost by the Refitting firm or by the OEMs/ PAC/ sub-Refitting firms under arrangements by the Refitting firm.

9.3 If within the period of warranty, the repairs reported by the CUSTOMER (Coast Guard) to have failed to perform as per the specifications, the Refitting firm shall either replace or rectify the same free of charge, within One week of notification of such defect received by the contractor provided that the equipment are used and maintained by the customer as per instructions contained in the operating Manual. Record of the downtime would be maintained by user in logbook. Spares required for warranty repairs shall be provided free of cost by Refitting firm.

9.4 Refitting firm hereby warrants that necessary service and repair backup, during the warranty period of the repair, shall be provided by the Refitting firm at the coast Guard Premises, at any Indian port.

9.5 Notice for Remedy/ Rectification of defects during warranty period shall be in writing and transmitted to each other by the fastest possible means.

10. GENERAL INSTRUCTIONS:

10.1 **Material Safety:** The contractor shall ensure that paint handed over/own paint to it for usage is safely stored. The supplier shall maintain material safety as follows:

10.1.1 Maintain a clean, tidy and orderly store.

10.1.2 Tins must be stored and stocked such that they do not turn over and leak.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

10.1.3 Lids shall be used to cover tins containing coating or solvents.

10.1.4 Fumes must be watched for and ventilated if necessary.

10.1.5 Material brought in/taken out MDL premises to be maintained in a log register indicating the quantity of paint used, when and where.

10.2 Equipment Safety: The contractor must ensure the following:

10.2.1 Airless spray must always be earthed as static electricity can develop within the system and be the cause of explosion.

10.2.2 All couplings must be of a close fit, especially on high pressure equipment.

10.2.3 Replace damaged hoses.

10.2.4 During airless spraying the paint is under an immense hydraulic pressure. Release of the pressure through the spray gun or any leaks of the equipment is dangerous, and a stream of paint may easily penetrate human skin, in which case immediate medical aid is required.

10.3 Personal Safety: The safety of personnel is of prime importance.

10.3.1 Contractor shall ensure that its personnel have minimum contact of paint with skin.

10.3.2 Sensible working clothes must be provided which can cover as much as possible.

10.3.3 Hand Gloves, Safety Shoes and eye protection must always be worn during work.

10.3.4 Usage of a suitable barrier cream on exposed skin must be considered.

10.3.5 Air fed hood/mask or respirator in confined spaces must be used.

10.3.6 Safe access and adequate lighting must be ensured.

10.3.7 Tidying up, as work proceeds, must be followed – good housekeeping contributes to safety.

10.3.8 Yard/Onboard safety regulations such as safety permit system for hot work/work at height/confined space/electrical/Pressure testing/etc. must be respected and followed.

10.4 Job Site Safety: On site safety can be enhanced by small measures, such as:

10.4.1 Tidy and clean surfaces in general.

10.4.2 Immediate removal of spillage and Good housekeeping standards must be maintained at all times.

10.4.3 The area where blasting or painting is being carried out must be protected with proper metal/plastic/tarpaulin cover sheets with associated arrangements to avoid splattering of copper Slags/ metallic grits beyond blasting area and display the signboard during the blasting & painting.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

10.4.4 Any job above 1.5 meter or more, contractor must ensure fall prevention, fall protection, supervision and provide proper personal protective equipment and training to their employees.

10.4.5 Prior commencing work in confined spaces, suitable ventilation arrangements are to be made to keep environment free from fumes generated during paint application and during drying process.

10.4.6 Contractor to ensure that a Safety Representative is always present during work execution to understand and implement the above safety requirements.

10.5 Fire Hazards: Most paints contain flammable solvents. Hence

10.5.1 Never allow hot work - naked flames - matches - cigarettes - in the same area where paint is being applied or stored.

10.5.2 Always thoroughly ventilate any area where paint is applied. Clean up immediately and dispose of the cleaning material in a closed metal container.

10.5.3 If a fire should occur, do not attempt to put out with water - use powder or carbon dioxide (CO₂) type fire extinguishers.

10.5.4 Contractor is required to check gas concentration in confined areas and to obtain gas free certificate from shipyard prior to start of work. Gas detector required for this check shall be duly calibrated and are in contractor's scope.

10.6 SAFETY PROVISIONS:

10.6.1 The contractor is responsible for complying with all the relevant safety standards/ codes and should take necessary safety measures/precautions to carry out the job, without causing any accident, in the work premises, which will ultimately cause loss to MDL either directly or indirectly.

10.6.2 The contractor should apply for written permission to carry out the hot jobs with full details of the work, date, duration of work etc.

10.6.3 All the required safety gear and firefighting accessories be made available by the contractor at the site of work for any emergency.

10.6.4 The application for hot work/work at height/confined space/tank entry/etc. permission should be sent to MDL SB-Safety Officer/and the Safety section in advance.

10.6.5 The hot jobs should be started only after the concerned supervisory staff of the safety section is satisfied with the safety arrangements made at site.

10.6.6 The contractor shall provide and maintain upon the works sufficient, proper and efficient lifesaving appliances and first aid equipment's to the approval of the MDL Safety Officer.

10.7 First Aid: The Refitting firm is liable to provide immediate first aid/ hospitalization in case of accident/ sudden illness to personnel.

10.8 Miscellaneous: Gas Free & Man Entry Certificates, adequate Fire Sentries, Administrative Support to OEMs, Pumping-out Facilities & Removal of Debris/ Waste Material shall be as per contract price and terms and conditions of SOR.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

10.8.1 The Bill of Quantities shall be read in conjunction with the Tender documents. The Contractor shall be deemed to have examined the Instructions to Tenderers, Conditions of Contract, Bill of Quantities, Annexures, Quality Assurance, Health and Safety Requirements, Specifications and have acquainted himself with the works to be performed, and the way in which they are to be carried out. Notwithstanding that the work has been sectionalized every part of it shall be deemed to be supplementary to and complementary of every other part and shall be read with it or into it so far as it may be practicable to do so.

10.8.2 The detailed information of the Work and materials are provided in the Specifications.

10.8.3 The quantities given in the Bill of Quantities are approximate only and are given to provide a common basis for tendering. Payments will be made according to the actual quantities of work ordered and carried out, as jointly measured by the MDL/ Vessel owner and the Contractor and valued at the rates and prices quoted in the Bill of Quantities.

10.8.4 The tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities (BOQ). Items for which no rate or price is entered by the tenderer will not be paid for by the Employer when executed and shall be deemed to be spread over and included in the rates and the prices quoted for other items in the Bill of Quantities. In the case of tender on percentage rate basis, the tenderer shall fill the percentage addition or deduction, both in figure and word, at the end of the BOQ with due regards to the specifications, conditions of contract and all other provisions in the tender documents including all taxes and duties. Such percentage addition or deduction will be applied to the rate of each item of the BOQ without reference to quantity or location of work or variation in estimated quantity. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.

10.8.5 All pages of the bill of quantities shall be initialed. After the tender has been submitted, no variation in rates or scope of work will be allowed on any ground such as mistake, misunderstanding, etc.

10.8.6 No deviation of whatsoever nature including that in taxes and duties shall be brought out in this Price Proposal.

10.8.7 Refitting firm shall arrange the Proprietary Article Certificate (PAC)/ Original equipment manufacturers (OEMs) as indicated for undertaking the critical equipment repairs and overhauls onboard ICGS VIKRAM.

10.8.8 Participation in Pre-refit & Post-refit trials with PAC firm and assessing the health of equipment on board before taking over the ship for refit.

10.8.9 Participation in the post refit trials with PAC firm to prove the repaired equipment, systems and machinery to the satisfaction of Coast guard agencies and MDL.

10.8.10 Defect List: The defect lists for the Hull, Electrical and Engineering jobs for the Short Refit of ICGS VIKRAM are as detailed in the tender rate sheet. The Refit job is to be undertaken as per the Defect list serials (rate sheet) in the tender document and as per the extract RFIC MoM. Firm has to quote for all serials except the DLs of deleted & covered. Incomplete quote shall not be considered for further processing. Defect List- Annexure - II attached herewith.

10.8.11 Arrange PAC OEM along with tools & tackles/chokes for boats/ etc. wherever applicable for undertaking Repair / Routines of machinery and equipment.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

10.8.12 Arrange class surveyor wherever indicated in defect list for survey / inspection.

10.8.13 Arrange explosive inspector for gas free certificate before undertaking any repair / inspection of tank (Approx. 19 no of tanks) as indicated in relevant defect list.

10.8.14 The working model proposed for this Tender is Sub-Contracting model.

10.8.15 Bidders are requested to refer DL for tendered line items only.

10.8.16 For undertaking post refit guarantee defects away from base port/port of conduct of refit, no additional charges (including travelling/boarding/lodging) will be reimbursed by ICG to the Refitting firm /subcontractors/PAC firms. The bidder is to have necessary arrangements at different ports for attending the guarantee defects.

11. DETAILED SCOPE OF WORK

11.1 Pre & Post Refit Trials.

11.1.1 The Refitting firm is to participate in pre-refit trials before taking over the ship for refit. Repair Refitting firm is to complete repairs and make equipment available for trials well within the refit duration for planned conduct of post refit trials. Satisfactory completion of repair activity includes post refit trial.

11.1.2 To participate in pre-refit and post refit trail along with PAC OEMs before taking over the ship for refit. All machinery / equipment is to be subjected to post refit trials at harbour / sea if required. Refitting firm shall co-ordinate with trial agencies and to rectify defects observed during trials. It shall be Refitting firm responsibility to complete repairs and make equipment available for trials well within the refit duration for planned conduct of post refit trials.

11.2 Request for Information Conference (RFIC):

11.2.1 Clarifications with respect to the work package have been already resolved in the RFIC with ICG. The material identified in defect list and during RFIC indicating as 'Spares Coast Guard supply' will be issued as a free issue material to Refitting firm. Remaining all material is Refitting firm's scope of supply.

11.2.2 Refitting firm is to undertake all work forming part of DL and no additional work/ GOW will be granted for those DL serials where no unit rate is indicated or quoted as lump sum amount. On this account, the Refitting firm is also liable to provide a break up of costing as per detailed description given as part of the Defect List Serials (DLs) in the SoW, as the equipment may require replacement during the course of the refit.

11.2.3 Refer defect list full & final RFIC remarks of the extract RFIC MoM (modified by MDL) attached herewith as an Annexure - I for compliance.

11.3 Schedule of Requirement

11.3.1 Quantified work package (comprehensive scope of work that contains breakup of individual jobs to be completed including survey, dismantling and inspection, routines repair to be carried out, consequent repair and trial).



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

11.3.2 Quality Inspection Schedule/ QAP (minimum and essential parameter that are required to be achieved for the scope of work to be deemed as satisfactorily completed)

11.3.3 Extract of relevant Coast Guard Orders (as applicable) pertaining to the scope of work, such as 'Paint Scheme', Hull survey and ratification Procedure', 'Survey of Anchor Cable', Entry into Confined Spaces and Precautions There of etc.

11.3.4 While undertaking any job on board whilst the ship is afloat, the watertight integrity of the ship is to be ensured by the Refitting firm by blanking any opening / valves/ pipes having potential to affect the ships watertight integrity including inter compartmental watertight integrity.

11.3.5 Refitting firm shall arrange classification society (IRS) for inspection wherever indicated in the defect list serials.

11.3.6 Refitting firm shall include the charges of classification society (Indian register of shipping-IRS), gas free certification, PAC firms, material / spares (wherever applicable) etc.in their quote against the defect lists. (Refer PR line item and extract of RFIC.)

11.3.7 Base line vibration measurements are to taken as indicated in RFIC. The charges shall be included in the quote.

11.3.8 Refitting firm shall arrange explosive inspector for gas free certificate before undertaking any repair / inspection of tank as indicated in relevant defect list.

11.3.9 Refitting firm shall arrange Pilots from MbPA for vessel movement during docking/undocking/sea trials/CST-1/final delivery/etc. as indicated in the defect list.

11.3.10 Refitting firm to provide split AC/ suitable AC plant of sufficient capacity on board at following places during dry dock and whenever ship's AC is non-operational as per extract of RFIC. Refer Para 09 (q) of RFIC minutes.

11.3.11 Refitting firm to provide adequate Ventilation blowers (08 nos. for all accommodation and work places during the time non-availability of Air Conditioning System. Refer Para 09 (aa) of RFIC minutes.

11.4 Extract of Policy Letter/ Guidelines.

11.4.1 Extract of policy letters / guidelines relevant to the refit work package, such as survey of hull and repairs, paint scheme, survey of anchor & cable, underlay scheme, etc. not covered in the work package or RFIC minutes are provided in following documents.

(i) Refit manual- CGBR – 381

(ii) Policy on Paint Scheme- paint manual / CGBR 382.

11.5 Removal and Refitting of Items.

11.5.1 In the event of the requirement to remove the existing light fittings, piping, trunking, valves, electrical cables, junction boxes, lagging, panelling, obstructions, protrusions, foundations, etc. falling in the way of repairs, temporarily to facilitate completion of scope of work, the Refitting firm shall reinstall the same as per



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

drawings, amendments thereto and to the satisfaction of the CUSTOMER. All work associated with this Article forms an integral part of scope of work and defect list.

11.5.2 Electrical cable in way of repairs, if required, are to be covered adequately for protection against accidental mechanical/ fire damage, by the Refitting firm damages caused during the execution of the work by the Refitting firm or his sub-Refitting firms are to be made good by the Refitting firm at his cost.

11.5.3 All pipe lines/ fittings which are not required to be taken out of the ships are to be properly covered / secured to ensure they are not damaged during the course of refit. Damages caused during the execution of the work by the Refitting firms are to be made good by the Refitting firm at his cost.

11.6 Modification (Change in Defect List)

11.6.1 Notwithstanding the scope of work specified in defect list, the MDL shall have the right to modify the scope of work during the execution of the contract based on the Coast Guard recommendation. The necessity for repairs/renewals/ replacement other than those presently included in the scope of work may arise during the inspection/survey/repair. All such work as also consequential work (re-work) required to be done by the Refitting firm along with work arising out of items/drawings supplied by the MDL & CUSTOMER shall be treated as scope of work. MDL & ICG will have right to delete jobs covered under AIAMC from the refit package even after commencement of refit. The Refitting firm will not have any objection on working of reps of firms executing AIAMC during the refit and will assist ship staff to arrange necessary security approvals.

11.6.2 Such changes in the scope of work and the cost & time implications thereof shall be mutually agreed upon on priority, in writing, before undertaking such changes in the scope of work. The resultant increase in cost as well any extension in project duration will be intimated by the Refitting firm and shall be agree the accepted by the MDL and Coast Guard through mutual negotiations prior to undertaking such changes in scope of work.

11.6.3 In case promulgation of such change in scope of work affects the initial scope of work and/ or additional scope of work, the cost and time implications due to such changes, shall also be taken in to considerations while promulgating the change in scope of work.

11.7 Preparatory work:

11.7.1 The preparatory works are required to be carried out on a time bond basis prior to docking the vessel at MDL Dry dock in Mumbai.

11.7.2 As time is the essence of this contract, the Contractor is required to mobilize all the resources viz. Men, materials, machines, cranes, etc. and arrange for docking the vessel at Dry dock Mumbai, immediately on receipt of letter of intent/work order whichever is earlier, to ensure that all the works are completed in the shortest/stipulated time and the vessel get certified from the inspection authorities and can be put for normal operation early. The preparatory work shall include, but not limited to, procurement of material viz. steel plates and structural members, paints, bushes, bearings, fasteners, gases, welding & grinding consumables etc. Contractor shall arrange for UT gauging, repairs of valves, of rudder stock assembly, propeller shaft assembly, etc. Contractor shall arrange for all the lifting tackles in adequate numbers, etc. as per assessment.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

11.7.3 Arrangement of Material, Labour, equipment, consumables, etc. require for all above preparatory works shall be completed (including gate pass for labours) during mobilization period by contractor within quoted price.

11.8 UNDOCKING OF VESSEL:

11.8.1 After completion of all necessary underwater repair works related to special hull, tail shaft and renewal docking survey under registered Class and getting certification from Class for the same. After undocking of vessel, fencing and roof structure shall have to be refitted by the contractor, if removed by him.

11.9 OBLIGATION OF CONTRACTOR:

11.9.1 The work shall be carried out with best workmanship and quality. The contractor will be responsible to rectify the defects without any extra cost during guarantee period.

11.9.2 The contractor shall be responsible for any damage, fire and theft during execution of work and such loss/ damage of vessel or MDL property shall be made good by the contractor.

11.9.3 All the materials and services directly or indirectly required for the completion of the contract work/DLs and which are not specified in the Refitting Firm's Scope of supply, shall be in scope of contractor within quoted price.

11.9.4 To prevent theft and mischief at site during the entire execution of subject contract work at MDL dry dock Mumbai, the contractor shall arrange for ward and watch arrangement at site within quoted price.

11.9.5 The contractor shall ensure the safe condition of the temporary storage of fuel/Oil tanks/containers/drums near the ship/jetty through displaying proper sign boards, barricades and monitoring continuously by deploying adequate manpower especially non-working hours from any damage, fire.

11.10 INSPECTION OF VESSEL:

11.10.1 Before quoting, the tenderer, in his own interest may carry out the inspection to understand the actual condition of vessel and full implication of assignment. This will also help him to make proper assessment of scope of work. Failure to do so will not absolve them of their responsibility to do the work as specified in the tender document. He may contact Additional Project Superintend/AGM (SB-Repairs & Refit) on Tel. No. 022-2376 3447, Ship Manager/CM (SB- Repairs & Refit) on Tel. No. 022-2376 3448/49 and / or email id shiprepairs-refit@mazdock.com for any technical clarification and vessel visit.

11.11 RATES AND PRICES TO BE INCLUSIVE:

11.11.1 The rates and prices shall include for the provision of plant, construction equipment, consumables, labour, supervision, materials, freight, transportation, services, harbor & dock dues, charges payable to **Mumbai Port Trust**, erection, installation, performance of works, care of works, insurance, maintenance, overheads and profit and every incidental and contingent costs and charges whatsoever including Goods and Sales Tax, Customs Duties, etc. and for compliance with the Instructions to Tenderers, General Conditions of Contract, Special Conditions of Contract, Specifications. No separate payments for mobilization, demobilization, Preparatory works, Temporary works etc., will be made other than those specifically noted in the Bill of Quantities. The bidder shall be



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

deemed to have included for the cost thereof in the rates and prices quoted in respective sections.

11.11.2 The Bill of Quantities and Specifications are intended to cover the supply of all materials and the execution of all works and services necessary to complete the Work. Should there be any details of construction or materials or services which have not been referred to in the Specifications or in the Bill of Quantities, but the necessity for which may be implied or inferred therefrom, or which are usual or essential to the completion of all works in all trades, the same shall be deemed to be included in the rates and prices named by the tenderer in the Bill of Quantities. The rates and prices are to cover the items as described in the Bill of Quantities and if there is inconsistency between the Bill of Quantities and Specifications, the most stringent requirement shall prevail.

11.12 METHOD OF MEASUREMENT:

11.12.1 GENERAL: Unless stated or billed otherwise, quantities shall be net as they are finished and fixed in the Works. No separate payments shall be made for the provision of plant and equipment, tools, tackles, machinery, consumables, indirect materials and labour that is required for the delivery, handling, installation, construction and completion of the works and services. This shall be considered to be included in the Bill of Quantities for various items of works. Similarly, no separate mobilization/demobilization payment shall be made.

11.12.2 CURRENCY: All monetary reference herein and in the Bill of Quantities (work items) shall be in Indian Rupee Currency.

11.12.3 UNIT RATES PREVAIL: In case of any arithmetical errors in the extension (Quantity x Unit Rates) in the Bill of Quantities, the unit rates, and not the quoted amount, shall prevail. All prices in the Bill of Quantities shall be written in figures as well as in words. Errors will be corrected by the Employer for any arithmetical errors. In the event of any discrepancy/error in the percentage variation quoted in words with respect to the quoted percentage variation in figures, the percentage variation quoted in words shall supersede over the percentage variation quoted in figures.

11.12.4 LUMP SUM PAYMENTS: All "Lump Sum Payment Items" of Work shall become due for payment upon the MDL/ Vessel owner Certification of Completion of such component in accordance with the Contract, Bill of Quantities, Specifications, etc., except any other terms specified elsewhere in the tendering document.

11.13 TESTS ON COMPLETION:

11.13.1 The tests on completion shall be carried out at manufacturer's premises and / or at site in accordance with the contract.

11.13.2 On completion of erection/installation of all items at site in accordance with the contract, the contractor shall give the Vessel owner/MDL 07 (seven) days' notice in writing before making the "tests on completion" in accordance with and in the manner prescribed in the specifications. The defects pointed out by the Vessel owner/MDL during the joint survey would be rectified by the Contractor within 14 days and thereafter acceptance report be signed jointly by the contractor and the Vessel owner/MDL. The joint acceptance report shall be treated as "Completion Certificate".



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

11.13.3 Unless otherwise agreed, the tests shall take place within 10 days after the expiry of the 07 days' notice on such day or days as the Vessel owner/MDL shall indicate or as may be agreed and such tests shall be carried out in the presence of Vessel owner/MDL.

11.13.4 If any portion of work fails under the tests to fulfill the contract conditions, tests of the faulty portion shall, if required, by the Vessel owner/MDL or by the contractor be repeated within reasonable time upon the same terms and conditions and all the expenditure in this respect shall be borne by the contractor.

11.13.5 If the "Tests on completion" has not been successfully made by the contractor within one month after the time fixed for testing the work by the contractor for the commercial use, and if in the opinion of the Vessel owner/MDL the tests are being unduly delayed, the Vessel owner/MDL may in writing call upon the contractor under seven days' notice to make such tests, the Vessel owner/MDL may proceed to carry out such tests himself at the contractor's risk and expense.

11.14 Material Reconcile:

11.14.1 Contractor shall prepare and submit reconciliation statement against material received from MDL, if any during user certification of WDC.

12. MATERIAL OF CONSTRUCTION

12.1 FREE ISSUE MATERIAL/ FACILITY BY MDL: Following material/ facility shall be provided by MDL during refit at MDL.

12.1.1 Power supply 415V/50Hz/3PH, temporary light supply (110V/230V), drinking water and compressed air (up to 04 Kg/Cm²) up to the point **NEAR THE JETTY** will be provided by MDL. However, lead wires and bulbs, holders, any step up/ step down transformer, DBs, hose pipes require for working on board ships to be arranged by the Refitting firm.

12.1.2 Porta cabins if available shall be provided by MDL. (Refitting firms shall be allowed to bring their own porta cabin in MDL premises during the refit period)

12.1.3 Crane facility SWL up to 15 Ton shall be provided by MDL for shifting above 40 kg weight material during MDL normal working hours only.

12.2 FREE ISSUE MATERIAL / FACILITY BY REFITTING FIRM'S: Following material / facility shall be arranged by Refitting firm during refit of vessel.

12.2.1 HT Steel, MS, SS, Aluminium plates: All welding jobs are to be undertaken by qualified welders duly certified by LRS/ IRS/ ABS/ MMD for HT Steel, MS, SS, Aluminium, etc. during the refit. Refitting firm to cater for adequate quantity of plate of desired thickness and grade of steel as indicated in relevant defect list. (Cost of welder's qualification in Refitting firm scope)

All Spares (other than specified ICG supply spares against the DLs), Consumables and Material for repair/renewal of each line items in tender.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

12.2.2 Consumables like welding electrodes, nuts, bolts, washers, gaskets, studs, cleaning cloth, cleaning liquids, lub-oil wire brush, tools & tackles, equipment, spanners and special tool including grinding machine, drilling machine, general tools, jigs & fixtures, chokes for boats, calibrated measuring instruments etc.

12.2.3 Paint & primer required as per paint scheme and as specified in defect list and subsequent reflected in tender line item.

12.2.4 Equipment/ machinery other material required for blasting and painting.

12.2.5 Gas cylinder, torches, hoses etc. required for heating and cutting and brazing.

12.2.6 Welding machineries, heater, torches etc. required for welding.

12.2.7 All material and items procured by the Refitting firm for scope of work, except where specifically indicated in defect list that such items are Coast Guard supply, are conform to the relevant approved and applicable specifications.

12.2.8 The material includes all equipment, fittings, finished pipes/ semi-finished product, spares, consumable, sub-assembly/assemblies, documents etc. required for removal, repair, refurbishment, refit/installation and testing of any part of the work being undertaken by the Refitting firm (and /or by his sub Refitting firms on his behalf) as per scope of work defined in the defect list and the extract RFIC, up to completion of the guarantee period and liquidation of his outstanding liability.

12.2.9 Sufficient number of trained/ qualified Skilled & Semi-skilled fitters, welders, Brazers, grinders, painters, electricians, store-keepers, material handlers, helpers, supervisory staff, fire sentries etc. are to be deployed by Refitting firm for carrying out the activities as per schedule and time.

12.2.10 Safety gears i.e. personnel protective equipment for Refitting firm's workers while working at site.

12.2.11 Staging material: The Refitting firm has to arrange the scaffolding materials, temporary supports, etc. as per requirement and erect the same. The Refitting firm should remove temporary supports & Scaffoldings etc. and clear the space after completion of work.

12.2.12 Cleanliness of work place including dry-dock to be carried out on daily basis. All rubbish and scrap are to be segregated and to be put in bins provided by MDL at various locations. Barnacles/sea growths and other used/unused blasting grits/copper slags shall be taken out from MDL premises.

12.2.13 Tools and tackles such as chain blocks, jacks, slings etc. required for lifting and shifting to be arranged by the Refitting firm inside the ship. Tools and tackles should be load tested and calibration certificate should be available.

12.2.14 Any material, facility required directly or indirectly for carrying out the job/DLs, if not mentioned in the Refitting Firm's Scope, has to be arranged by the Refitting firm.

12.2.15 Electric hand tools of 110/230V, Lead wires, DBs, Extension boards with wires, Portable bulbs and other portable machines used onboard ship should be of 110/230V (Power supply shall be provided by MDL). All the electrical hand tools should be sufficient length of wire without any joints.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

12.2.16 The Refitting firm shall provide all assistance, facilities, Instruments, Machines, labor and materials for carrying out inspection of the work.

12.2.17 Transportation of any equipment / parts if required to workshop for undertaking repair to be arranged by Refitting firm. Equipment if required for transportation outside MDL to be insured prior to movement

12.2.18 The Refitting firm shall arrange suitable vehicles for material require for refit of vessel. No separate transportation charges will be paid.

12.2.19 The Refitting firm is to ensure adequate safeguards for personnel when employed on work where human risk of health/ injury is involved.

12.2.20 Refitting firm shall arrange and use only Calibrated Rigging materials (slings/shackles/etc.), firm to submit the load testing certificates of all the lifting appliances as and when required.

12.2.21 Provisioning of adequate temporary lighting arrangement in & around onboard vessel and dry-dock as per MDL instructions as & when required.

12.2.22 Refitting firm to provide neat and clean suitable containers capacity of 200 Ltrs. for storing residual fuel/lube oil (approx. 10 KL fuel and 500 Ltrs lube oil). Refitting firm to hand over fuel/oils to Ship staff prior departing from MDL (yard). Further provide clean suitable Plastic/steel containers – 50 nos. having capacity of 200 Ltrs. each additionally for storing engine fuel (reusable) temporarily. Empty containers shall be taken back by the refitting firm post completion of refit.

12.2.23 Administrative support to OEMs/ PACs firm, pumping-out facilities & removal of debris/ waste material from the ships shall be carried out by the Refitting firm.

13. INDEMNITY & INSURANCE

13.1 **Indemnity:** The CONTRACTOR shall Indemnify the CUSTOMER against all claims for death or injury caused to any person, whether workman or not, while engaged in any process connected with the CONTRACTOR's work or for dues of any kind whatsoever, and the CUSTOMER shall not be bound to defend any claim sought the Workmen's Compensation Act, 1923 or Payment of wages Act 1936, or any other statutory Act or Law in force from time to time and applicable to the said work unless the CONTRACTOR first deposit with the CUSTOMER a sum sufficient to cover any liability which CUSTOMER may have to incur in relation to such proceedings.

13.2 **Insurance:** As applicable

14. WORK DONE CERTIFICATE (WDC):

14.1 The Refitting firm shall prepare the WDC for the completed DL activities and submit to MDL user along with all relevant inspection reports. The work done will be certified by MDL executives of Repair & Refit Managers post confirmation by the Vessel Owner/ Competent Authorities. Payment shall be as per the quantities certified in WDC/WCC.

14.2 Area calculations shall be done jointly by MDL executives of Repair & Refit/Vessel owner/Paint OEM/Contractor.

14.3 The conditions for awarding work done certificates shall be as per the conditions stipulated in the defect list.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

14.4 Necessary service entry shall be made in SAP system by WCC certifying authority and the same will be handed over to the contractor for making invoices. The WCC shall bear relevant Service Entry Sheet no., PO no., respective item no., subservice line item of the PO.

14.5 The WDC shall clearly mention the scheduled dates for start & completion/ delivery of the jobs (as given to the contractor by MDL) and the actual dates of start & completion.

14.6 In case of delays, the duration along with number of delayed days shall be specified in respective WDCs to invoke LD Clause and effect recoveries from contractor's invoice.

14.7 WDC & payment shall be on the basis of actual work carried out & accepted by MDL.

14.8 Contractor shall submit the WCC & invoices to MDL, based on the work completion as per release note/instructions. Partial completion of work shall not be accepted for making WDC.

14.9 WDC shall be prepared by the contractor for the completed DL activities and the same shall be confirmed with the Vessel Owner/Competent Authorities prior submission to the concerned OIC's-H/E/L (Repairs & Refit) for final certification of WDC. The WDC shall include cumulative statement of jobs carried out till last WDC.

15. WORK SCHEDULE & MOBILISATION:

15.1 Total refit period 120 days including dry-dock period of approx. 60 days.

15.2 The contractor should complete mobilization of his workforce, tools, and equipment within seven (07) calendar days from the date of instruction from user dept. or after placement of PO, whichever is early.

15.3 During mobilization period, refitting firm should arrange entry passes for his employees for yard entry as per MDL's security procedures; no excuse for delay in commencing the work on this account will be entertained.

15.4 Log Books covering Instruction Register & Hindrance Register shall be maintained by the refitting firm under MDL custody. Instruction given to Refitting firm will be recorded in the Instruction Register. The Refitting firm is required to report hindrances in production for recording in the register.

15.5 Penalty @ 0.5% per day PO value subject to maximum of 5 % will be levied for any delay in mobilization beyond the specified mobilization period of one (01) weeks starting from the date of instruction from user dept. to the respective locations/yards.

16. ROLE AND RESPONSIBILITY:

16.1 The Refitting firm shall take complete responsibility of the refit activities of the vessel and its performance post Refit for the undertaken jobs, as indicated in the enclosed Technical scope at para 22.

17. SPECIAL INSTRUCTIONS TO THE REFITTING FIRM.

17.1 Satisfactory trials including Basin/Sea trials to be offered to ship / MDL after completion of jobs.

17.2 Work addition & deletion is expected in time with the changes in requirement of owner.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

17.3 MDL has the right to withdraw the tender in partial or full during the course of this tender.

17.4 Refitting firm has to adhere to all guidelines issued by Govt w.r.t COVID 19 protocol while working in MDL premises and on board ship.

17.5 MDL reserves the right to operate one or more parallel contracts against this enquiry in case of any delay from Refitting firm side or to meet the refit schedule of the vessel.

17.6 The projected quantity may vary according to actual job scope. Hence final amount shall be calculated based on the actual work done certified by MDL executing officer.

17.7 Refitting firm to provide necessary valid inspection / report certificates for the required DLs as per SOW.

17.8 All Material IN/OUT passes and Man Entry Passes shall be arranged by the Refitting firm. Requirement of authorization letter if any only shall be issued from MDL.

17.9 MDL reserves the full right to change the work scope/amend the work scope according to the site condition/customer's requirement.

17.10 MDL reserves the right to award packages to multiple Refitting firms to expedite completion of repairs in order to meet customer's requirement.

17.11 Log books covering instruction register and hindrance register shall be maintained by the refitting firm in consultation with MDL. Instructions given to Refitting firm will be recorded in the instruction register. Refitting firm is required to mention any hindrances occurred during refit of vessel.

17.12 Refitting firm shall keep shipyard informed regarding the progress of the work during the entire contract period. Refitting firm shall submit 15 Days work plan in advance in reference to plans indicated and give progress report on weekly basis.

17.13 If the quality, progress and performance are not found up to the mark, shipyard reserves the right to terminate the contract and get the balance work done either departmentally or through another agency solely at shipyard's discretion. Any excess amount spent by the shipyard over & above the contracted price shall be recoverable from the Refitting firm.

17.14 Security clearance of the Refitting firm's employee to be deployed in the yard for this contract shall be arranged by the Refitting firms at their own cost.

17.15 Refitting firm must take into consideration the nature of tasks to be carried out and the level of responsibilities associated while putting the organization in place. The Refitting firm will nominate suitable contact persons (Project in-charges & other Section in-charges) for the smooth execution of the contract.

17.16 The Refitting firm shall provide all assistance, facilities, instruments, machines, labour and materials for carrying out inspection of the work at their workshop/on-board.

17.17 Any minor addition/ patch work/ re-work/ cleaning work etc. carried out by the Refitting firm due to non-certification by inspection agency would not be considered as extra work.

17.18 In case any anomalies during bending and fabrication activities due to the Refitting firm's negligence are found at any moment of time, the Refitting firm would be required to



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

rectify the same along with the material at his own cost.

17.19 Refitting firm shall arrange and use only Calibrated Rigging materials (slings/shackles/etc.), firm to submit the load testing certificates of all the lifting appliances to MDL as and when required.

18. RISK AND EXPENSE CLAUSE

18.1 Should the repair or any part of repair thereof not completed within time or times specified in the contract document, or unable to repair and provide services, the MDL shall after granting Refitting firm 30 days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.

18.2 In case of breach in repair that was not remedied within 30 days, the MDL shall be having given the right of first refusal to the Refitting firm be at liberty to get repair from any other source as he thinks, other repair or the same or similar description to make good such default at the Refitting firms risk and cost.

18.3 Any excess of the purchase price cost of manufacture, or value of any repairs undertaken from any other firms as the case may be over the contract price appropriate to such default or balance shall be recovered from Refitting firm.

19. NON DISCLOSURE AGREEMENT (NDA)

19.1 The Refitting firm to submit NDA post placement of PO to MDL. Further except with the written consent of the CUSTOMER/ Refitting firm, other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

20. SECURITY

20.1 The Refitting firm is bound by the Official Secrets Act 1923 and, in its connection any other statutory Act/ Law / Amendment in force and the information given is to be treated as strictly confidential and is not to be disclosed to any person or persons not concerned therein. The Refitting firm shall be responsible to ensure that all persons employed by him in the execution of any work in connection with this Contract are fully aware of the provisions of the official Secrets Act 1923/ Law/ Amendment in force and have undertaken to comply with the same.

20.2 The Refitting firm shall also ensure secrecy of design, construction, equipment and documentation and shall carry out all or any instructions given by the CUSTOMER in this respect.

21. REFERENCES:

21.1 Defect List - Hull, Engineering & Electrical - Annexure - II.

21.2 Extract of RFIC Minutes – Annexure - I.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

22. **RESPONSIBILITY MATRIX**

SR NO.	ACTIVITY	MDL	REFITTING FIRM
1	Mobilization of work within 07 calendar days from placement of order		✓
2	Making MDL passes for man/materials/vehicles entry/exit		✓
3	Mobilisation of manpower, Shifting/shipping of Machine/ Equipment inside Ship.		✓
4	Crane up to 10 Ton (SWL) for lifting and lowering of equipment	✓	
5	Using Calibrated Rigging materials (slings/shackles/etc.)		✓
6	All free material in Refitting firm's scope, Cutting Tools, jigs, and fixtures for positioning of equipment/boats and consumables, etc.		✓
7	Transport of equipment from Refitting firm premises to ships jetty		✓
8	Removal of Waste, scrap at the end of shift on regular basis from respective work area.		✓
9	Safety Gears (PPE)		✓
10	Any Other material, facilities required directly or indirectly for carrying out job		✓
11	Power Supply and Temporary Lighting arrangement as and when required near to jetty	✓	
12	Temporary Lighting arrangement wherever required on-board/Dry-dock		✓
13	Scaffolding material arrangement, erection & dismantling		✓
14	Dry-dock/Jetty Cleaning of used/unused copper slags/blasting grits/barnacles		✓
15	Dry-dock cleaning prior to vessel undock on both the Versions.		✓
16	Removal of barnacles from dry-dock and taking outside MDL premises.		✓
17	Work done Certificate preparation		✓
18	Documentation & Payment for booking of Pilot from MbPA as per MDL instructions.		✓
19	Facilitation activity with MbPA for Pilot arrangement.	✓	
20	Prepare and submission of indent for spares requirement if any as per ICGS/MDL format to Ship.		✓
21	Getting NAC (Non-Availability Certificate) for spares from Ship/CGRPT and forward the same to MDL-DGM/PE for processing the spare procurement.		✓
22	Prepare & submit a detailed SOW for additional work if any to MDL.		✓
23	Making MDL gate entry Passes for PAC/OEM personnel		✓



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

24	Arranging Technical passes for PAC/OEM personnel restricted to 03 days only	✓	
25	Making visitor Pass for official use only	✓	
26	Cleaning of Jetty & its surroundings from wastages/garbage's/etc. and shifting to MDL designated place.		✓



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Extract RFIC minutes of meeting for ICGS VIKRAM (MDL modified):

1. Following were present: - Not applicable
2. The Request for Information Conference (RFIC) was conducted onboard ICGS VIKRAM at New Mangalore on 27 to 29 Mar 23 with representatives of CGRHQ(West), CGDH-3, ICGS VIKRAM and shipyard reps as per CGRHQ(W) fax 343/180/SR-1/Vol-I dated 15 Mar 23. The meeting was chaired by CSO (Refit), CGRHQ(W) on virtual mode. Refitting firm must quote for complete scope of work (all in way jobs included) at fixed rates for refit duration of 120 calendar days. CSO (refit) further emphasized on the following points related to the conduct of refit: -
 - (a) Not applicable
 - (b) Ship staff is to prepare a list of spares with long lead time for positioning and initiate procurement of CG supply spares.
 - (c) The Refitting firm winning the contract is to submit the PERT chart (indicating critical path) along with Quality Assurance Plan (QAP) and PBG. PERT chart and QAP are to be submitted by the refitting firm within 15 (fifteen) days of signing the Refit Contract and is to be finalized during the pre-refit meeting.
 - (d) Requirement of class surveyor as defined in these minutes/ Scope of Work (SOW) is to be adhered to by the Refitting firm.
 - (e) During dry dock period, work may continue round the clock, including painting. Request for such extended hours should reach ship 48 hours in advance to MDL. Any specific requirement over and above the working hours indicated, is to be intimated by the refitting firm to MDL/COA with justification, who will consider the request based upon merit. Covering of all relevant equipment, fittings and openings on weather decks prior undertaking blasting and painting to be carried out by the refitting firm.
 - (f) For effective and timely execution of refit, a good co-ordination is expected between MDL/COA, Ship and the refitting firm.
 - (g) No stoppage of work is permitted unless the same is linked to the Ship's safety and security. In case such a need arises, the matter is to be immediately referred to the MDL/COA.
 - (h) For undertaking post refit guarantee defects away from base port/port of conduct of refit, no additional charges (including travelling/boarding/lodging) will be reimbursed by MDL/ICG to the firm/subcontractor/PAC firms. The refitting firm is to have necessary arrangements at different ports for attending the guarantee defects.
 - (j) Any loss to Govt. property will have to be made good by the refitting firm by providing same in serviceable condition/replenishment. The refitting firm and its subcontractors will not have any leniency on these materials.
 - (k) Being firm's subcontractors, obtaining services and quotes from the PAC/OEM firms will remain refitting firm's liability.
 - (l) The refitting firm is to submit an indent for spares to MDL within two (02) working days from opening of a particular machinery or equipment and the same is to be vetted by CGRPS/COA within the next two (02) working days. The Ship is to thereafter raise demand within the subsequent two (02) working days to the Store Depot. The depot is to process this demand within three (03) working days and forward NACs by fax/email. Ink signed NACs are to be forwarded by the depot by post/by hand of Ship's representative.**
 - (m) Rubber material for seals of watertight doors and hatches should conform to NCD 5904 specifications. The refitting firm has to produce specification before fitment of material.
 - (n) The item wise or defect list wise quote is to be submitted within the MDL specified time and the refit of the ship is to start within ten (10) calendar days of signing the contract.
 - (p) PBG for an amount of **3% of Contract price (inclusive of GST as applicable)** is to be submitted by the refitting firm within 30 days of signing of contract. This PBG will remain valid up to eight months from refit completion date. No separate BG needs to be provided by the refitting firm for release of final payments, if the PBG covers the guarantee period.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (q) Liquidated Damages (LD), if applicable, is to be levied only at Full & Final payment. Deduction of amount for jobs approved for deletion will be as per item wise quote submitted by refitting firm.
- (r) No supply order for NA Spares is to be placed after refit completion. Sanction for all AWRP related works to be completed prior refit completion. Further, for timely settlement of refit bills towards NA spares, the refitting firm should ensure that invoices for the same are accompanied by ink signed NACs.
- (s) The safety of the ship during refit, especially during docking/undocking is paramount with the ship staff and the refitting firm to ensure safety at all times. The underwater Valves/ pipelines/system, if removed during docking, are to be restored prior undocking. Appropriate metallic blanks/tallies, etc. a joint survey by the firm, MDL, SS and COA is to be undertaken to ascertain the state of the underwater hull, Valves, fitting etc. which could compromise the watertight integrity and the same is to be certified in a 'SAFE TO UNDOCK' certificate.
- (t) Refitting firm to ensure availability of sufficient number of firefighting and damage control items/equipment at the site of refitting ship.
- (u) Refitting firm to make available additional electricity points for running of pumps/other equipment like damage control, de-flooding machineries, etc., required at emergency time.
- (v) Refitting firm to ensure availability of adequate bilge pumping out and de-flooding arrangements for all emergencies.
- (w) Steel renewal of all underwater area and Aluminium renewal for ship side up to weather deck is to be undertaken in dry dock only by Refitting firm.
- (x) Proper/ suitable sentries are to be placed along with suitable appliances during hot work / under water works being carried out.

3. **Scope of Work.**

- (a) Not applicable
(b) Not applicable

4. The following defect serials are the Main Work Package and will be undertaken by the refitting firm. The Scope of work would be as per entire work package as finalized during the RFIC. The Defect list summary are as below (extracted from the ICG minutes of RFIC meeting).

22.1. Hull DLs : HA-1001 to HB-1198

Deleted DLs : HA-1044/1047/1049/1053/1054/1065/1066/1067/1081/1086/ 1104
to 1110/ /1112/1113/1115/1116/1126/1146/1149/1156/
1157/1163/1165/1167/1171 to 1176/1183/1185/1186/1188.

22.2. Engg. DLs : EA-3001 to EB-3387

Deleted DLs : EA-3004/3020/3024/3269/3270/3299

22.3. Electrical DLs : LA-5001 to LB-5239

Deleted DLs :LA-5007/5047/5049/5056/5062/5124 to 5127/5154/5167/
5171/5177/5181/5186/5205/5213/5215/5217/5230/5235/5237 /5238

5. The remarks given earlier by RHQ(W) on the main defect list further elaborated during Request for Information Conference (RFIC) and changes in remarks are mentioned as amended remarks and same have been incorporated in the refit work package. The supplementary defect list was also finalised during the RFIC and included in the refit work package. The refitting firms are required to make note of these remarks and include cost in the final offer while submitting commercial bids accordingly.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

6. The technical queries/comments of all the refitting firms were scrutinized during the RFIC. To bring all the refitting firms technically at par, the scope of work was discussed and clarified to the reps of all refitting firms. The amendments and clarification arising during discussions with each refitting firm in RFIC will also be applicable to the other competing refitting firms.

7. The defect description and RHQ(W) remarks in Main Defect List and Supplementary Defect List were discussed and scope of work finalised and understood by all who participated in the RFIC. The defect list has been checked, scrutinized and it is certified that there is no repetition of defects.

8. **Provisioning of Accommodation During Refit:** MDL Scope

9. **Yard Services:** The refitting firm is to include following services required to be provided to the ship for the duration of refit against yard services. The item wise quote for the following services needs to be submitted against each work/services mentioned at HA-1001 /1002 (only quote pilot facilities for 08 activities tentatively such as during pre-refit/post refit sea trials, vessel movement from MbPA/ND(Mb) to MDL, Docking/Undocking (both versions) and Final castoff from MDL) /1003 (only quote for Stern drop arresting arrangement to be made and stern drop to be measured) /1004 /1006 (Only quote for provisioning of two external firefighting DD pumps) /1007 (Provisioning of certified fire sentries)/1008 /1013 /1015 (quote only for HP air connection)/ 1016 (Provide 04 gas burners/stoves with LPG round the clock & 02 safaiwala to clean) / 1019 / 1022 / 1023 /1024.

(a) Pre and post refit trials are to be carried out by the refitting firm. The refitting firm to ensure availability of the PAC reps/reps for the jobs included in this package for pre and post refit sea trials. Ship/CGRPT staff to coordinate for availability of the reps for the jobs undertaken directly by ICG.

(b) MDL scope

(c) MDL scope

(d) Qualified Pilot is to be provided while entering and leaving dock or whenever required for the following vessels as per MDL dock master instructions.

ICGS VIKRAM, MDL TUGS ANDAMAN and NICOBAR

(e) MDL scope

(f) MDL scope

(g) Refitting firm to provided 02 in no. fire sentry for each location wherever hot work is in progress. SS is also to provide their own fire sentry as required.

(h) Sufficient portable firefighting extinguishers (Refitting firm to collect the same from MDL Fire Dept.) to be positioned during servicing of on board major firefighting equipment.

(j) MDL scope

(k) MDL scope

(l) Refitting firm to provide 02 telephone connection with STD, Fax and Internet facility, and 02 mobile telephone connection for local use for entire duration of refit.

(m) MDL scope

(n) A/C system is to be kept operational for maximum duration of the refit and alternate sea water cooling lines are to be provided whenever feasible to keep the system operational.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(p) MDL scope

(q) Refitting firm to provide split AC/ suitable AC plant of sufficient capacity on board at following places during dry dock and whenever ship's AC is non-operational.

- | | | |
|------|------------------------|-------------|
| i. | Captain's Cabin | - 1 Ton |
| ii. | Wardroom | - 2 x 2 Ton |
| iii. | Sr. Sailor Dining Hall | - 2 X 2 Ton |
| iv. | Jr Sailor Dining Hall | - 3 X 2 Ton |

(r) Refitting firm to arrange for gas free certificate prior commencing of hot work/man entry in the tanks for this propose provision of blowers and visit of Inspector of Explosives for FO/Lube oil/AVCAT/foam/STP tanks to be catered. Gas free certificate for remaining tanks can be issued by qualified firm's safety officer.

(s) MDL scope

(t) Industrial cooking range with gas cylinders and essential utensils to be provided for ships galley along with storage space during un-inhabitable period on board.

(u) Refitting firm to provide neat and clean suitable containers for storing residual fuel/lube oil (approx. 10 KL fuel and 500 Ltrs lube oil). Ship to collect fuel/oils prior departing from MDL (yard).

(v) MDL scope

(w) MDL scope

(x) Refitting firm to provide adequate temporary lighting arrangement on-board / Dry-dock during dry-docking / undocking as and when required.

(y) MDL scope

(z) Refitting firm to provide Carry away pipe with connectors during dry-docking. Total 10 Nos. Diameter-75mm-05 Nos., 100mm-04 Nos.,125mm - 01 Nos.

(aa) Refitting firm to provide Adequate Ventilation blowers (08 nos. for all accommodation and work places during the time non-availability of Air Conditioning System.

(ab) Refitting firm to provide HP and LP Compressed air supply along with hoses and end fittings as and when required.

10. **PAC Firms-** Routines and defect rectification of the following equipment are to be undertaken through OEM/PAC/Competent firms indicated against each: -

SL	EQUIPMENT	OEM/PAC
(a)	CPP and shafting	M/s Schottle Germany
(b)	Main Engine along with Controls	M/s MTU, Pune
(c)	Gear Box along with controls	M/s Siemens, Germany
(d)	Diesel Engine	M/s KOEL, Pune
(e)	DA Controls	M/s KOEL, Pune



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(f)	Main switch board	M/s L&T, Chennai
(G)	FO Centrifuge	M/s. GEA westfalia, Germany/ M/s GEA westfalia, Gurugram (authorised)
(h)	HP Air compressor	M/s Sperre
(j)	Emergency HP Air compressor	M/s Sperre
(k)	OBW separator	M/s Environmental protection engineering, Greece/ M/s VACman Sanitation Solution Pvt Ltd.
(l)	AC Plant	M/s. H&H, Kolkata
(m)	AC compressor	M/s. H&H, Kolkata
(n)	Ref Plant	M/s. H&H, Kolkata
(p)	Fin Stabilizer	M/s. L&T
(q)	RO plant	M/s. Technicomar, Italy/ M/s. KNH, Mumbai (Authorised firm)
(r)	Incinerator	M/s. Detegasa
(s)	FM 200	M/s. Tyco Fire & Security (I) Pvt Ltd/ M/s. Johnson Controls (I), Pvt Ltd, Thane
(t)	Diving air compressor	M/s. Aerotechnica Coltri, Itlay, M/s. Jyotech Engg & Marketing, Noida (authorized firm)
(u)	Steering Gear	M/s. Damen Marine Components Netherland / M/s. KNH, Mumbai.
(v)	Sea boat davits	M/s. MacGregor & HMD, Norway
(w)	OBM	M/s. Mercury, USA/ M/s Mercury, Singapore/ M/s. Mukum Marine Pvt Ltd, Chennai (authorised firm)
(x)	Fi-Fi Pump	M/s. FFS
(y)	PC Crane	M/s. West Marine Engg Pvt Ltd, Singapore
(z)	WHR Plant	M/s. Sondex, Savil, Vadodra
(aa)	Glide Path Indicator	M/s Ama Pvt Ltd. Mumbai
(ab)	ICAF	M/s. Cathelco
(ac)	Echo sounder	M/s. Norinco Pvt. Ltd Mumbai
(ad)	Emergency DG	M/s. KOEL
(ae)	Gyro	M/s. MEPL
(af)	Magnetic compass	M/s. MEPL
(ag)	Bow Thruster	M/s. ZF Marine
(ah)	AFDS	M/s. Tyco
(aj)	Water mist and Wet Chemical	M/s. Tyco
(ak)	Fire & Sprinkling pump/ Bilge & Ballast pump/	M/s. Desmi (I) Pvt Ltd Nadergul, Telangana



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Note: **Deviation from the above, if unavoidable, may be considered with prior approval of competent authority.**

11. **General Discussions.** All technical queries pertaining to the refit of the ship were discussed with the representatives of all the participating refitting firms and following decisions agreed by all concerned for action by the refitting firm: -

- a) The list of sub-contractors for undertaking repairs on equipment & machinery not mentioned in Para 10 are to be submitted to MDL/CGRPS/Overseeing Authority for approval prior to offloading.
- b) All personnel coming to work on board to carry Aadhar card/MDL issued gate pass.
- c) SS to keep record of Aadhar card/ MDL issued gate pass details for all the personnel visiting ship.
- d) No polythene to be used on board during refit. Refitting firm/SS to cater for jute bags for to and fro of items.
- e) No petrol or inflammable items to be brought on board for cleaning of items.
- f) Proper housekeeping to be maintained during refit to ensure safety of personnel working on board/dry-dock.
- g) All welding jobs are to be undertaken by qualified welders duly certified by LRS/IRS/ABS for HT Steel, Ms, SS, Aluminium, etc. during the refit. Firm to cater for adequate quantity of plate of desired thickness and grade of steel.
- h) Scope of well-define work in defects indicating 'To be renewed, to be replaced' include supply of spares and material, fitment, commissioning and trials within quoted amount for that defect. No NACs/AWRF will be provided against such defects until otherwise specified/discussed specifically during Request for Information Conference (RFIC).
- (j) The quotation of firm for overhauling of pumps (except equipment mounted pumps & motors) will constitute all work including supply of spares except renewal of impellers, shafts and casing. Pumps are to be painted as per existing paint scheme by spray paint after overhauling within the price agreed.
- k) Overhauling/refitting of all valves includes mandatory replacement of all gaskets, joints, fasteners, bridge piece and defective valves seats. Painting of valve with 02 coats (one primer and another colour coding) to be carried out. Rubber seating (Neoprene/Vulcanizing) of Butter fly valves except for those specified against each DL remarks are to be renewed within the quoted price of overhauling.
- l) Overhauling of Capstan/windlass will include supply of all spares except gears, shaft and casing.
- (m) Overhauling of lube oil coolers, freshwater cooler, condenser and all other heat exchangers include replacement of 'O' rings and gasket/fasteners. Renewal of anodes is mandatory, as and when cooler/condenser is opened and plugging of leaking tubes is permitted up to 10% of total tubes in a cooler. Coolers/condensers are to be painted as per existing paint scheme.
- (n) Routines on A/C Refrigeration plant include replacement of all Teflon seating and spindle for all line valves along with painting of compressors, condensers and pumps.
- (p) Cost of removal and refitting of panelling and renewal of lagging and insulation removed during defect rectification is to be included in the quoted cost. No additional cost for degutting and re-gutting will be admissible.
- (q) All relief/safety valves fitted with pumps and compressors are to be checked for correct operation during overhauling.
- (r) Ship's hull/structure, all welded joints which are accessible and visible are to be checked and survey to be carried out and repairs undertaken as per IRS recommendation. Removal/fitment of pumps/prime mover/ Generators includes alignment as per procedure along with in way jobs.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(s) All in way jobs whether specified or not in RFIC remarks are to be undertaken by firm within the quoted price except in cases where the in-way job entails removal of major /heavy machinery for steel renewal.

(t) The refitting firm is to submit details of sub-contractors to whom work is intended to be offloaded within 15 days of signing the Contract and the same is to be approved/finalized by MDL/CGRPS during the pre-refit meeting. Request for information Conference with OEM/PAC firm and sub-contractor of the firm is to be conducted with the reps of MDL/CGRPS and ship staff prior to awarding the contract. Work orders are to be issued within two weeks of refit commencement. If any firm is found technically unsuitable and/or not agreeing with the terms and conditions of Coast Guard, same is to be disqualified from undertaking the work. MDL/CGRPS/Refitting Authority rep is to be included in PNC/CNC for AWRF Jobs with sub-contractors.

(u) The refitting firm is to place order for firm (yard) supply items within 15 days from the date of pre refit trials and forward a copy of supply order to MDL/CGRPS/Overseeing Authority.

(v) All work is to be carried out as per the directives of MDL/CGRPS/Overseeing Authority based on the approved defect list as confirmed during RFIC.

(w) Any hold up in timely completion of refit is to be intimated to MDL/CGRPS/COA at least 30 days prior to scheduled completion of the refit with revised estimated date of completion.

(x) Overhauling of motors and their control panels includes following: -

- (i) Renewal of bearings.
- (ii) Cleaning of stator/rotor and varnishing.
- (iii) Internal and external repairing of motor yoke.
- (iv) Examination of rotor, impeller, shaft, bearing housing and impeller non-driven end (in case of ventilation motors) for flaws, cracks and corrosion. Same to be repaired if found defective.
- (v) Removal and renewal of bearing seals and gaskets.
- (vi) Repair of terminal box.
- (vii) Replacement of defective nuts and bolts.
- (viii) Overhauling of EM brake assembly, associated gear and resistance bar control unit, in case of windlass and capstan.
- (ix) External painting of motor as per approved paint scheme.
- (x) Trials of motor I totality post installation.
- (xi) Overhauling of control panel fitted with Star Delta starter includes renewal of contractor kit (to be supplied by firm) irrespective of its condition. Overhauling of control panels will include renewal of terminal strips/connectors.

(y) All continuous running machinery contractor kits indicated in defect list are to be renewed for non-sealed type contractors. Contractor kits will be the refitting firm supply. Replacement of defective sealed type contractors, if any, are to be replaced against NA spares.

(z) The routines on automatic and semi-automatic changeover switch shall include cleaning of dirt and dust by soft brush and vacuum cleaner. Examine all contracts for adjustment and cleanliness.

(ab) Ensure contracts are free to operate. Examine for loose connection, loose securing nuts and bolts, signs of overheating, condensation, etc. Carry out insulation resistance test of



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

changeover switches and associated controls (Minimum acceptable value – 1M ohm). Carry out functional test on completion. Ensure that flexible earthing strap is in good condition and making good contact.

(Note: **Before carrying out insulation test all rectifiers are to be disconnected and on no account must a full megger voltage applied across rectifier).**

(ac) Overhauling of DB, starter Panel of equipment/motors will Include renewal of defective indication lamps, lamp covers, fuses, fuse bases, fuse carrier, connectors, defective wiring and locking system.

(ad) Calibration/test certification would be carried out by the refitting firm through authorized agencies and calibration/test certificates issued for calibration of gauges and testing of live saving equipment within the price agreed.

(ae) Emergency medical cover is to be provided by the refitting firm to the personnel employed by firm and their sub-contractors on board ship.

12. **UTG Report:** After the docking, the refitting firm is to undertake. Ultrasonic gauging, as applicable, as per the scope defined in work package and the report is to be plotted on shell expansion drawings. Photographs of underwater fittings are to be forwarded to MDL/RHQ, Overseeing Authority and the ship for records. Ultrasonic surveys (UTG points as per remarks on defect list), wherever applicable, should be carried out immediately on commencement of Refit/Docking (for underwater hull) and report is to be rendered to the MDL/ Overseeing authority with recommendations at the earliest to enable assessment of underwater work package. The report on underwater scanning (UTG) is to be prepared and report/recommendations on the same is to be submitted in shortest possible time to finalize areas requiring steel and Aluminum renewal. Scanning is to be undertaken through Class and CG approved agency.

13. **Spares Management.**

(a) The list of exact requirement of spares for routines/defect rectification is to be rendered to CGRPS / Ship by the firm within 02 days from the date of opening of the equipment/machinery.

(b) The spares required for any equipment will be produced by the refitting firm from the authorized dealer against NACs wherever specified as 'CG supply'. The spares for equipment for which authorized agencies are not available would be procured on competitive basis on approval of CGRPS/Overseeing Authority. The spares procured through the firm against NACs would be reimbursed at actual plus overheads as per DPM in vogue. Taxes, duties, etc. will be paid on production of relevant documents. Procurement of spares through the refitting firm will be authorized by the CGRPS /Overseeing Authority after ascertaining availability of sanction. The detailed procedure for procurement of spares against NAC from refit account is to be undertaken as per policy in vogue.

(c) Spares for refit will be as per final remarks in the concerned defect serial.

14. **Trials.**

(a) The refitting firm is to conduct pre refit trials along with reps of nominated OEM/PAC firms and reps of MDL/COA before taking over the Ship for refit.

(b) DA's load trials are to be carried out on completion of major routines on engines and alternators with ships load. All DAs are to be proved on parallel operation also.

(c) The refitting firm is to provide test and trials reports as per format. The Ship is to hand over copy of format for test and trial reports.

(d) On completion of refit, the refitting firm is to conduct Harbour/Basin Trials for all machinery and defects, if any, are to be liquidated. The final sea trials are to be conducted



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

with reps of nominated OEM/PAC and COA/MDL. The major defects observed, if any, are to be liquidated prior refit completion.

15. **Supply of Materials by Refitting firm.** Following materials are considered as Firm supply materials and the cost of the same would be deemed to have been included in the quotation for the respective defect list serials: -

- (a) Lagging material for renewal of laggings.
- (b) Joints for pipes & manhole covers.
- (c) Nuts, Bolts, washers and fasteners wherever required (Mat-as per original fit)
- (d) Material for all wood repair jobs.
- (e) Pipes, flanges and fittings for pipe renewal jobs (Material-as per original fit).
- (f) Bearings for pumps and motors (except for pumps fitted on Main Engines and Gear Boxes).
- (g) Gland packing including rudder gland packing & stabilizer gland packing.
- (h) Material for furniture repair jobs (wooden as well as metal)
- (j) Sacrificial anodes wherever renewal envisaged.
- (k) Manufacture of shaft key during overhauling of pumps if required.
- (l) Steel for steel renewal jobs and Aluminium for Aluminium renewal.
- (m) Material for cleaning electrical contacts, electrical equipment's and their accessories, which are overhauled.
- (n) Tiles, underlay, chock fast, araldite, putties, etc.
- (p) Industrial gases for testing/trials of systems, like Nitrogen for AC plant.
- (q) Electrical items like switches, plugs, internal cables, pins, fuses, terminal boxes, contacts, washers, nuts, split pins, wood polish, putties, Teflon tape, seal tight, hold tight latches, blanks and flanges, etc.
- (r) All material as indicated in remarks against individual defect serials.

16. **Dry Docking.** Dry docking of the ship to be done in both versions or as per docking plan provided by Coast Guard within the final amount agreed during the CNC (MDL scope). However, the refitting firm to carry out the U/W area cleaning with high pressure jet soon after dry docking. The Ship should generally be docked within four weeks of commencement of Refit and U/W hull survey and growth of underwater work package if any, be finalized. The entire under water hull including areas covered by keel blocks are to be painted as per the approved paint scheme indicated in main defect list under the supervision of the paint manufacturer.

17. **Association of Surveyor.** IRS surveyor is to be associated, wherever applicable, for survey of hull, steel / Aluminium renewal, shafting, Main Engines, Gear boxes and other shaft sub assembly jobs as listed below. The refitting firm's quotation is to included surveyor's fees also.

- (a) Survey of hull externally including decks, side shell and bottom.
- (b) Complete survey of hull internally including tanks, longitudinal/ transverse frames, other structural members, void spaces, bilge spaces, watertight/non-watertight bulkhead.
- (c) Witnessing of air/hydro tests of all fresh, ballast, fuel oil and lube oil tanks.
- (d) Survey/inspection of impeller, shafts and associated fittings.
- (e) inspection of bulk head seals.
- (f) witnessing of trueness checks of the impeller shafts.
- (g) Ranging and examination of Anchor and Chain cables.
- (h) Examination of chain locker, hawse pipes, chain stoppers with testing of pumping arrangement of chain locker.
- (j) Examination of watertight doors and hatches for watertight integrity.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (k) Examination of all openings in shell including overboard discharges, underwater valve openings etc., space, cofferdams, tanks, plating and framing, bilging, draining, sounding, venting and pumping.
- (l) Load testing of all lifting appliances and deck machinery for running and static load.
- (m) Only class approved and ASNT qualified USG surveyors are to be employed by firm and the same to be verified by MDL/CG Overseeing authority.

18. **Paints.**

(a) The refitting firm is to include supply of paints as per the scope of work and RFIC minutes. Representative of paint manufacturer is to be involved for the supervision during surface preparation and painting. Firm is to obtain **Product Performance Guarantee (PPG) of 60 months**, in case of full paint renewal, from paint manufacturer and standard guarantee against failure. Any failure is defined as appearance of visible macroscopic fouling or detachment of whole or part of film, amounting to 10% (ten percent) or more of the total surface area from the date of final application of paint provided: -

- (i) Percentage of visible macroscopic fouling is established through Data Plan (provided by paint manufacturer rep at site, in consultation with repair Firm and MDL/CGRPS/SS/CG nominated rep).
- (ii) Failure of paint is not due to external causes like bacterial attack, mechanical damage, welding, heating, fairing or cleaning during guarantee period.
- (iii) Fitted ICCP (Impressed Current Cathodic Protection) system or equivalent is working satisfactorily during the guarantee period.

(b) The paints are to be procured only from ICG authorized paint manufacturers/ suppliers. To maintain uniformity, complete quantities of paints should be procured from one of these firms only.

(c) The guarantee towards painted surface is as follows: -

- (i) The paint is to be procured from manufacturer who will agree to give guarantee towards painted surface in consonance with the "Product Performance Guarantee" (PPG). No deviation from PPG will be accepted.
- (ii) The refitting firm is also to ensure that a confirmatory certificate from the site supervisor of the paint manufacturer is obtained and submit the same to MDL along with WDC. In case of any objection recorded by the supervisor at site, the Overseeing Authority's decision would be final, which shall be recorded on the confirmatory certificate.

Note. Paint failure to be defined as visible microbiological growth (i.e. fouling barnacles, weeds, etc.) visible corrosion marks, peeling and blistering of paint on underwater surface.

19. **Disclaimer:** Name of any firm/ agency/supplier other than OEM/PAC as mentioned in para 10 above is advisory/matter of reference and not binding on the firm. The status of OEM/PAC firms as mentioned at Para 10 will remain unchanged.

20. **Vibration Trials.** Base Line Vibration Measurement of the ship are to be undertaken as part of refit. The recommendations/ information are to be utilized for undertaking routines/repairs on Ship's equipment/fittings. The Vibration trials are to be undertaken during pre-refit trials and also on completion of the refit as part of post refit trials. The vibration measurement of major machinery (Main Engines, DAs, Gear Boxes, Pumps, Compressors etc.) are to include frequency analysis in addition to all amplitude measurement in horizontal, vertical and axial directions.

21. CSO (Refit) mentioned here that the refitting firm (yard) is required to accommodate the subcontractors to undertake their jobs which are offloaded by the Coast Guard directly under their delegated financial powers during the refit duration. This is to ensure that the ship is fully



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

operationally available, to the Coast Guard fleet, once the refit is completed by the refitting firm (yard). The CSO (Refit) requested the ship's staff to ensure that refit activities are not hampered by these sub-contractors while undertaking their jobs directly offloaded by the Coast Guard. The ship's staff assured that all assistance to the sub-contractors and also to the refitting firm (yard) will be provided/extended during the refit duration.

22. The CSO (Refit) also brought out that the refitting firm (yard) is required to clear all their outstanding Owings / payments to their sub-contractors on completion of the jobs offloaded by the refitting firm (yard). The refitting firm (yard) is required to submit "No dues Certificate" from the OEM / PAC firms and their sub-contractors while submitting their full and final stage bill. The contract operating authority is requested to ensure the same.

23. **Conclusion.** The scope of work as per main defect list and supplementary defect list have been discussed in detail with reps of all refitting firms and the ship staff, and all technical aspects have been clarified. The refitting firms' reps were requested to quote for main defect list, supplementary defect list and work package added during RFIC. Representative of all refitting firms have understood the work package, minutes of RFIC and there are no further queries/clarifications. Clarifications sought by the refitting firms have been cleared in RFIC and same mentioned against each defect list serial in RFIC remarks column.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ICGS VIKRAM MAIN DEFECT LIST SR-1 – HULL

CONTRACTOR UTILITY SERVICES

HA-1001

Pre and Post Refit Trials to be conducted. All PAC firms and Contractor reps to embark ship for sailing.

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1002

Pilot facilities to be provided during Pre-Refit/Post Refit sea trial, docking / undocking and berthing/ Un-berthing of vessel till refit completion as per MDL Dock Master Instructions.

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1003

Stern drop arresting arrangement to be made and stern drop to be measured.

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1004

Cleaning dock during the stay of vessel in dry dock and during fitment of system pipes. Fitment of 12 carry away pipes for all storm valves during ship on dock. Diameter 80mm – 07 nos, 100mm – 05 Nos

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1006

Two external firefighting diesel driven pumps to be kept standby on jetty during refit. Pumps for de-flooding to be provisioned when ship's portable submersible and emergency pumps are unavailable

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1007

Provide firefighting services as follows: -

(a) MDL Scope

(b) 02 fire sentry (Certified) with adequate extinguishers at each welding /cutting / hot work points

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1008

04 nos. telephone connections (two Landline with STD and FAX facility). Internet facility (03 nos dongles) to be provided on board ship during entire refit period. 05 mobile SIM connections with 180 days valid prepaid unlimited call/SMS/data facility to be provided for Captain, 03 HOD and OOD

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1013



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

15 heavy duty blowers cum smoke extractors to be provided for effective ventilation when ship's A/C and ventilation system non-operational. Chiller to be provided onboard including three portable A/C of 2.5 tons for duty staff

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1015

Provide HP compressed air connection during entire duration of refit for machinery /domestic requirements

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1016

Provide 04 gas burners during the ships galley non-ops period and ships become uninhabitable, round the clock LPG (up to 100 cylinders) & 02 Nos Safaiwala to clean the place for the duration of refit.

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1019

Carry out load testing from approved agencies as per defect list serials under supervision of class society and produce load test certificate

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1022

Provide 14 set top Box satellite TV connection on board and as applicable at Refit accommodation places during inhabitability period.

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1023

Arrange gas free certificate from Department of Explosive for all fuel, AVCAT, Lub oil tanks, prior man entry and hot work before commencement of Hot work onboard and provide safety lamps for inspection of confined spaces

FINAL RFIC REMARK

DO as per RFIC minutes

HA-1024

Provide laundry facilities with atleast 02 Nos Heavy duty automated washing machines till the time ship's habitability and laundry services are restored

FINAL RFIC REMARK

DO as per RFIC minutes

UNDER WATER WORK PACKAGE. U/W HULL AREA-1070 SQ MTRS, BOOT TOP AREA-250 SQ MTRS

HA-1026

Under water Hull cleaning. Under water, boot top area including BT tunnel and all underwater appendages i.e., Rudders, A - brackets, bilge keels, propellers, propeller shafts, eddy plates, rope guards, stabilizer fins and sea chest gratings, to be cleaned with high pressure fresh water jet (3000



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

psi) within 24 hours of docking and scrap by wooden scrapper to remove barnacles / marine growth after docking. Remove, scrap and clean sea chest gratings, eddy plates, rope guards, sea tubes, rudders, shaft brackets, inlets and discharges, stabilizer fins and their adjacent areas. (Under water area including boot top area -1320Sqmr)

FINAL RFIC REMARK

DO.

HA-1027

Under water inspection Joint under water inspection with SS, CGRPS, Class surveyor and paint rep to be carried out and all under water appendages to be examined for roughness and unfairness, paying particular attention to the shaft bracket, rope guards, BT propellers, rudders, fin stabilizers and eddy plates, sea chests SKEG etc. Report to be submitted by class Surveyor.

FINAL RFIC REMARK

DO.

HA-1028

(a) **Underwater Hull Survey** Carry out automated Ultrasonic survey /Robotic hull survey of underwater hull & boot top area including all U/W appendages and BT tunnel with 50 mm (index) x 5 mm (scan) resolution and 10mm (index) x 5 mm (scan) resolution for the area which are inaccessible/ vulnerable to corrosion / pitting by class surveyor, CGRPT and Contractor Reps paying particular attention to hull plating, shafts and brackets, rope guards, eddy plates, sea chest and plating below machinery compartment. Area deteriorated beyond permissible limit is to be cropped and renewed as per surveyor's recommendation.

(b) Contractor to cater 2000 UTG points for the area where ultrasonic scanning is not feasible.

(c) Hammer test and visual survey by class Surveyor (ABS/IRS/LRS) of entire under water hull including boot top and under water appendages paying particular attention to hull plating in the vicinity of sea tubes (17Nos), propellers, shafts and brackets, inspection of bilge keel and in-way of its welding and hull plating for corrosion, defects and damage to be carried out.

(d) Entire skeg including bottom plate to be thoroughly inspected by class surveyor presence.

(e) Carry out repairs/renewal as per surveyor recommendation. Contractor to cater for **07 Tons** of Underwater steel renewals. Quality of steel to be used: ABS Grade-'A' (Only class surveyor certified Equivalent to IS 2062-B grade plates to be used for all steel renewal work. Metallurgy certificate endorsed by class surveyor prior fitment of all steel plates to be provided to ship)

(f) Class surveyor to be engaged for stage inspection for all steel renewal work including NDT of all weldments and radiography at random as indicated by SS / CGRPS.

(g) Carry out hose test/ DPT on entire weldments post renewal of steel plate. Only IRS/ABS/LRS certified welders to be engaged for all welding works.

(h) All in way jobs during the course of steel renewal including removal and renewal of insulation, panelling, deck flooring etc. to be included by Contractor within scope of work.

(j) Both side painting of renewed plates to be carried out. Paint Contractor supply. Existing paint scheme- M/s Akzo Nobel.

(k) Contractor to provide 06 copies of UTG report alongwith class surveyor recommendations and steel renewal report. De-gutting/ re-gutting and in-way job including insulation/ lagging renewal to be included

FINAL RFIC REMARK

DO. Contractor to cater for **1500** UTG points. UTG required to be endorsed by class surveyor. Contractor to cater for **05 Ton** steel renewal. Payment will be on actual. All in way jobs included. External underwater hull Painting covered in HA-1030.

HA-1029

Remove, overhaul and pressure test 06 Nos. storm valves (up to 3.5 Kg/cm²). Dia-65 mm (03 nos), Dia-50 mm (03nos). Position of indicating gear of valves to be adjusted to agree with position of valves when shut. **Mat- Gun metal**. Securing studs to be checked by tapping with hammer and renew the defective studs. Damaged spindles and wheels to be renewed and lapping of valve seats



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

to be carried out. Contractor to cater for renewal of spindles and wheels on actual as per requirement basis. (All Inway jobs included, i.e. renewal of gasket and painting of valve)

FINAL RFIC REMARK

DO. Material Contractor supply.

HA-1030

Complete area to be blasted to surface preparation standards of SA 2.5 and complete paint scheme to be applied using airless spray machine. Total U/W area approx 1320 M². All inway jobs included. All underwater painting is to be carried out under supervision of the paint manufacturer as per CGBR 382 and inspection report and PPG to be rendered. Contractor to cover all underwater fittings viz Eco sounder, EM log, ICCP anodes etc. Paint Contractor Supply. Make - M/s Akzonobel.

FINAL RFIC REMARK

DO. Paint- Contractor supply. Make- M/s Akzonobel/ Sigma/ Jotun. Extract of paint scheme (CGBR 382 Issue 2) enclosed. Area approx- 1320 M².

HA-1031

All sacrificial anodes consumed more than 50% to be renewed. Material and anodes – Contractor supply. Details as follows: -

- (a) Zinc anode, Type – BAC-5, Qty 12 nos.
- (b) Aluminium anode, Type – MK-V, Qty 14 nos
- (c) Aluminium anode, Type- MK-VI, Qty 24 nos

FINAL RFIC REMARK

DO.

HA-1032

Remove, clean and examine all sea chest gratings (18 nos) including BT tunnel gratings (02 Nos). 100% visual and endoscopy survey to be undertaken on sea tubes/ areas in vicinity of suction strainers of educators / narrow bilge areas and underwater openings/ overboard discharges/ BT tunnel plating. Sea tube area to be cleaned and painted as per CGBR 382 (under water paint scheme). Paint Contractor supply. Paint make M/s Akzonobel. Sea chest grating to be re-fitted. All fasteners (mat – SS) to be renewed and sealed. Sea chest details as follows: -

<u>Ser</u>	<u>Dimension</u>	<u>Qty</u>
(i)	200 NB	04 Nos
(ii)	250 NB	08 Nos
(iii)	100 NB	02 Nos
(iv)	950x630 mm	02 Nos
(v)	900x700 mm	02 Nos

FINAL RFIC REMARK

DO. Painting included in HA-1030.

HA-1033

All 14 in number drain plugs (size -100 mm) to be removed, cleaned and checked for condition of threads and refitted. Defective plugs to be renewed. All drain plugs to be hose/vacuum tested post fitment and sealed with locking plates. Class surveyor to be associated during inspection and testing.

FINAL RFIC REMARK

Do. Renewal if any against AWRF.

HA-1034

Carry out hydro testing of rudder (P & S), Fixed fin (P & S), fin stabilizer (P & S) and SKEG and recoated with bituminous paint. Rudder rings to be inspected for securing. Any missing or broken bolts to be renewed as per sample. Material – Contractor supply.

Paint Bituminous – Contractor supply

FINAL RFIC REMARK

DO.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HA-1035

Check the draught marking in underwater hull (Port, Stbd and aft). Clean and paint draught marks as per U/W paint scheme. Any missing draught number to be renewed as per sample. Mat- MS. Paint Contractor supply.

FINAL RFIC REMARK

DO. Paint & material- Contractor supply.

HA-1036

Entire keel to be visually surveyed, externally and internally by class Surveyor (ABS/IRS/LRS). Take UTG readings on those areas as recommended by surveyor. Carry out repairs/renewal as per surveyor recommendation. Contractor to cater for steel renewal as per surveyor recommendations

FINAL RFIC REMARK

DO in conjunction with HA-1028.

SHIP SIDE HULL BETWEEN WATERLINE & MAIN DECK, AND SUPER STRUCTURE, APPROX AREA-3672 SQ MTRS

HA-1037

Carry out Survey of exterior hull above upper boot top up to 01 deck, super structure exterior and mast paying particular attention to weld seams and butt joints intersections, scupper areas and stress concentrations areas by class surveyor. Contractor to undertake UTG and cater for 5000 points. Contractor to cater for 08-ton steel renewal on recommendation of class surveyor. All inway jobs during the course of plate renewal to be included in scope of work. Both side painting of renewed plates as per existing paint scheme to be carried out. Contractor to submit UTG report along with class recommendations and steel renewal report. Steel renewal to be undertaken as per CGBR -386

FINAL RFIC REMARK

DO. Contractor to cater **1500** UTG points and **03 Ton** steel renewal. Contractor to submit UTG report endorsed by Class surveyor.

HA-1038

Surface preparation and painting on recommendations of paint rep on ship side, superstructure and mast along with fittings to be prepared to SA2.5 and 30% of total area to be catered for touch up paint scheme as per CGBR 382. Total ship side and superstructure area approx. 3672 M². Before surface preparation and painting Contractor to cover all electrical and navigational equipment. Paint make M/s Akzonobel. Paint Contractor supply. All painting is to be carried out in the presence of rep of paint manufacturer and inspection report and PPG to be rendered. In way jobs includes removal and refitment of insulation panel/lagging and UTG point

FINAL RFIC REMARK

DO touch up paint scheme including full final coat. Paint Contractor supply.

HB-1039

Blue band on both ship side and funnel, emblem marking, "**INDIAN COAST GUARD**" in English and in Hindi, 03 Nos Call sign '33', 02 nos 'VIKRAM' to be painted on both ship side as per approved pattern paint scheme. Paint scheme- M/s Akzonobel, paint- RAL code 5026, colour- Pearl Night Blue. Paint Contractor supply

FINAL RFIC REMARK

DO.

WEATHER DECK AND FITTINGS, TOTAL AREA APPROX -2222 SQMTRS AS PER CGBR 382

HA-1040

Carry out Survey of weather decks (Foxle, bridge wings(P&S), bridge top, boat deck(P&S), cat walk and quarter deck including fittings paying) particular attention to weld seams and butt intersections, foundation welding of all load bearing fittings such as twin bollards (13 Nos), stag horns (06 Nos) chocks/fairlead (26 nos), towing pads (03 nos) by class surveyor. UTG 2000 points of weather deck and 06 copies of UTG readings be rendered to ship

FINAL RFIC REMARK



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO. Contractor to cater for **1000** UTG points. Contractor to submit UTG report endorsed by Class surveyor. Renewal of plate if any catered in HA-1037.

HA-1041

On recommendations of paint rep, complete area to be blasted to SA 2.5 and complete paint scheme to be applied using airless spray machine as per paint manual (CGBR 382). Total area approx. 2222 M². Paint make- M/s Akzonobel. Paint Contractor supply. All in way jobs included.

FINAL RFIC REMARK

DO. Paint- Contractor supply. Make- M/s Akzonobel/ Sigma/ Jotun. Extract of paint scheme (CGBR 382 Issue 2) enclosed.

HA-1042

Conduct NDT test on weld beads of bollards (13 nos), stag horns (06 Nos), chocks/fairlead (26 nos), cleats (12 nos) and roller fairlead (02 nos) in presence of class surveyor and submit NDT report.

FINAL RFIC REMARK

DO.

HB-1043

Excessive corrosion/ localise pits observed at main deck catwalk near sea boat between frame 39-48(Port & Stbd) and holodeck between frame 16-20. Deck to be examined by class surveyor and defect to be rectified. All inway jobs included.

FINAL RFIC REMARK

DO in conjunction with HA-1040.

HB-1045

75 Nos earth wire securing bolts on stanchion/ stanchion securing shoe corroded/ uprooted. New securing bolt & nut to be welded with stanchion shoe as well as stanchion for securing of earthing wire. Bolt Size- M8, length -20 mm

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1046

Stanchion securing shoe corroded/ thinned at various places on weather deck. To be checked and shoe to be renewed as per sample. Mat - MS, Qty-23 Nos, Size-75x60x8 MM.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HANGAR DECK AND HELO DECK, AREA APROX - 585 SQ MTRS

HA-1048

Surface preparation up to SA 2.5 and full paint scheme for helo deck and hangar as per paint manual (CGBR 382). Surfaces preparation prior to application of painting w.r.t temp., humidity, paint preparation, WFT, DFT etc. are to be certified by paint rep. Paint surface to be proved for satisfactory Helo operation. All helo deck markings to be painted under supervision of CGRPT & ships staff. Paint Contractor supply. Paint make M/s Akzonobel. All in way jobs includes covering of deck fitting and surrounding area. Total area - 585 sq. mtrs

FINAL RFIC REMARK

DO. Paint- Contractor supply. Make- M/s Akzonobel/ Sigma/ Jotun. Extract of paint scheme (CGBR 382 Issue 2)

HA-1050

Helo deck safety net frames to be dismantled and inspection to be carried out on frames and securing eyes for any defects. Qty- 18 nos. Mat- MS. Post inspection load test to be carried out. Drop weight of 150 kg on safety net in struck down position, from two meters height. Test certificate to be submit

FINAL RFIC REMARK

DO. Survey and load test in association with class surveyor. To be spray painted post inspection.

HA-1051



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Harpoon grid to be removed and the structure below the grid to be examined. Carryout repairs of stiffeners & Replace bolts if required. Surface preparation to be carried out below the grid and apply full paint scheme. Grid to be fitted back in position and load test to be undertaken as per aviation guidelines. (Make- Larsen & Toubro limited)

FINAL RFIC REMARK

DO. Material & paint – Contractor supply. Make- M/s Akzonobel/ Sigma/ Jotun. Extract of paint scheme (CGBR 382 Issue 2) enclosed. Load test to be carried out in presence of class surveyor. Contractor to submit load test certificate. Chock fastening to be catered while fitment. Renewal stiffeners / Bolts if any against AWRP.

HA-1052

Examine/inspect helo securing deck rings. Carryout repairs as required. Undertake load test as per aviation guidelines (Helo deck-53 Nos - 4.7 T, Helo hangar-24 Nos - 2.7T).

FINAL RFIC REMARK

DO. Inspection/Load test to be carried out in presence of class surveyor. Contractor to submit load test certificate.

GENERAL COMPARTMENT ON NO. 1 DECK, 2 DECK, 3 DECK, 01 DECK, 02 DECK & 03 DECK

HA-1055

Carry out survey of decks and bulkheads not covered by panelling, ceiling and lagging by class surveyor. Also, carryout visual survey of dados of internal compartment area by class surveyor. Scope of job included removal and re-fitting of panels and lagging for facilitating survey on dados area. Contractor to submit survey report

FINAL RFIC REMARK

DO.

HA-1056

Scratch marks, crack, colour deterioration/fading observed on deck flooring at following areas. Surface to be prepared, renewed/ repaired and top coat of deck covering to be carried out. Deteriorated portion to be removed up to bare metal and apply full coat post assessment of deck plate condition.

Total area- **1372 Sqmtr.** Make - GTF Marine technology India Pvt Ltd, Mumbai.

Area where renewal of all coat required

- (a) All Alleyway - Total area 250 Sqmtr
- (b) Ships galley - Total area 52 Sqmtr
- (c) Sr rating dining hall including scullery - Total area 50 Sqmtr
- (d) Jr rating dining hall including scullery - Total area 72 Sqmtr
- (e) LSO -Total area 8 Sqmtr

Area where only top coat required

- (d) Wheel house, OPS room, MSO- Area 87 Sqmtr
- (e) HODs and lady officer cabin- Area 66 Sqmtr
- (f) Briefing room, SRE, VHF room - Area 80 Sqmtr
- (g) CO, FO, OOW, EXO, EO, LO, Lady officer cabin WCs- Area 46 Sqmtr (including dado area)
- (h) Officer's and trainee officer cabin (05 No)- Area 57 Sqmtr
- (j) Sickbay, isolation ward & sick bay WC- Area 32Sqmtr
- (k) Sailors (04 nos) and officer (01 nos) common WCs -Area 96 Sqmtr (including dado area)
- (l) SO's and domestic help cabin (05 no.) -Area 65 Sqmtr
- (m) 12 P/Nvk and 08 P/Nvk mess -Area 57 Sqmtr
- (n) 30 Nvk and 28 Nvk mess -Area 132 Sqmtr
- (p) Flight office, QM post, Gunnery office, Ships office, regulating office, DCHQ, Engg office, SW Office, Electrical office, Store office and Diving office -Area 162Sqmtr
- (q) Diving store, Canteen, Barber shop, Laundry -Area 48 Sqmtr
- (r) FO/CO and Wardroom pantry -Area 12 Sqmtr

Total top coat renewal area- 940 Sqmtr and complete renewal 432 Sqmtr

Material: Contractor supply

*** Note: paying particular attention on drain openings at wet compartments during renewal of flooring. All Drain strainers to be renewed. Material: Contractor supply**



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

FINAL RFIC REMARK

DO renewal of all coats in Galley and all other compartment only top coat. 16no. Strainers to be renewed.

BILGES MER, DG ROOM, FWD AMR, AFT AMR, BT COMPT, ASP & PC STORE, TOTAL APPROX AREA- 1200 SQMTRS

HA-1057

Clean bilges thoroughly and carry out survey in presence of class surveyor of all internal areas and structures of ship side, plating and all weld joints paying particular attention to weld seams and butt joints intersections and stress concentrations areas. Total area 1200SqMtrs and also carry out UTG of stiffeners in engine room, DG room, BT compartment and forepeak tank, approximately – 4000 points).

FINAL RFIC REMARK

DO only visual survey in presence of class surveyor. Contractor to cater only for 1500 UTG points. Contractor to provide survey report. Material – Contractor supply. All in way jobs included.

HA-1058

Surface preparation and touch up paint scheme to be under taken in bilge area of AER, MER & ASP, Auxiliary Machinery Rooms as per paint manual (CGBR 382). Prior application of paint, surface to be prepared and be checked for temp, humidity and paint WFT, DFT etc. are to be certified by paint rep. Paint Contractor supply. Inway jobs includes removal and covering of associated fittings and equipment. Paint make -M/s Akzonobel. **Total area 1200 Sqmtr**

FINAL RFIC REMARK

DO.

WCS, BATH ROOMS AND ACCOMMODATION, PANTRIES {NVK WC-1, NVK WC-2, SOS WASHROOM, P/NVK WASHROOM, OFFICERS WASHROOM, CO WASHROOM, FO, HODS, OOW AND LADY OFFICER CABINS (07 NO), SHIPS GALLEY, WARD ROOM PANTRY, CAPTAIN'S PANTRY, SENIOR SAILORS & JUNIOR SAILORS PANTRY, LAUNDRY, BARBER SHOP}

HA-1059

Remove 100 mtrs of drain pipes (25 % of total length), carry out chemical cleaning and pressure test (3 bar) and to be fitted back. Inway job includes removal associated fitting and lagging. Painting and colour coding of pipes to be undertaken. Pipe material - GI, Dia - 50 mm & 65 mm. Mat- Contractor supply

FINAL RFIC REMARK

DO.

HA-1060

Carry out visual survey of wet compartments in presence of class surveyor and renew plates as directed by surveyor

FINAL RFIC REMARK

DO. Contractor to submit survey report.

HB-1061

08 Nos deck drain arrangement of SO/s and Jr sailors bathroom (Port & Stbd) passing below P/Nvk & Jr sailors mess are directly welded with deck head and causing frequent chocking/jammed. Arrangement of flange fitment to be carried out as per pipe fitted with system. Mat- MS/GI, Dia- 55 mm. Job involves removal and refitment of deck head panels.

FINAL RFIC REMARK

DO 16 nos additional flanges to be provided in existing pipeline system to facilitate easy access. Mat- Contractor supply.

FRESH WATER TANKS (720M²), TOTAL NOS OF FW TANKS 03 NOS, WATERMIST TANK (14 M²); QTY—01 NO

HA-1062

FW tanks to be cleaned, sludge to be removed and ventilated. Carry out visual inspections by class surveyor paying particular attention to strengthening members and air breather lines. The FW tanks



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

to be flushed before boxing up. Inway job includes renewal of manhole gaskets (Qty 07 nos) and 168 nos M16 studs and bolts. Mat – SS

FINAL RFIC REMARK

DO. Renewal of studs if any under AWRF. Material- Contractor supply.

HA-1063

Surface preparation and touch up paint scheme to be under taken as per paint manual (CGBR 382). Prior application of painting Surfaces to preparation and checked for temp, humidity and WFT, DFT etc. are to be certified by paint rep. Paint and Material Contractor supply. Paint make M/s Akzonobel

FINAL RFIC REMARK

DO.

ANCHOR AND CHAIN CABLE ARRANGEMENT, TOTAL LENGTH 08 SHACKLES IN EACH SIDE, DIA 38 MM, MAKE: M/S SOLAS MARINE, UAE

HA-1064

Both anchor and 16 full length Shackles (**Port & Stbd -08 shackles**) of chain cable and accessories to be removed and lay down at deck floor/jetty and to be thoroughly cleaning and water blasted and survey by class surveyor taking random Vernier Calliper readings for wear and tear and certificate/calibration report (06 copies) from surveyor to be submitted. Any link diameter found to be deteriorated more than 10% of its original diameter, the entire cable length to be renewed as per surveyor recommendations. Material – Contractor supply

FINAL RFIC REMARK

DO. Renewal if any, against AWRF.

HA-1068

Both Anchors and chain cable to be painted as per (CGBR 382) approved paint scheme under supervision of paint rep. Marking on lugless joining shackle to be carried out and chain to be interchanged end to end. Paint Scheme- M/s Akzonobel, Intertuf 16 Black, 02 coats. Paint CG supply& Material Contractor supply

FINAL RFIC REMARK

DO. Paint & material Contractor supply. Make- M/s Akzonobel/ Sigma/ Jotun. Extract of paint scheme (CGBR 382 Issue 2) enclosed.

HA-1069

Blake slip, bottle screw slip and riding slips to be dismantled and overhauled. Gauging and inspection to be done under supervision of class surveyor. Material Contractor supply. Submit gauging report with class recommendation

FINAL RFIC REMARK

DO.

HA-1070

Carry out load testing of deck eye plate for anchor accessories (10 nos) and anchor strops with a test load of 03 Tons in under supervision of class surveyor. Contractor to submit load test report.

FINAL RFIC REMARK

DO.

WATER BALLAST TANKS- 04 NOS, COFFERDAMS - 04 NOS, VOID SPACES (02 NOS), FOREPEAK TANK - 01 NO, EM LOG-01 NO, ECO SOUNDER-02 NO. AND SHAFT ALLEYS - 04 NOS. TOTAL APROX AREA – 2,500 M²

HA-1071

Pump out the water from the tanks, bilges areas and clean and scrap the loose/ peeled off paint. Carry out 100% visual survey by class surveyor paying particular attention to strengthening members and stress concentration areas including all tank breathers and breather lines. Carry out repair/renewal of breathers if any as per surveyors' recommendation. Renew gaskets/fasteners and nuts on requirement basis. Undertake APT of tanks if steel renewal undertaken inside the tanks.

FINAL RFIC REMARK

DO.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HA-1072

Surface preparation and touch up paint scheme to be under taken as per paint manual (CGBR 382). Prior pain application temp, humidity, WFT, DFT etc. are to be certified by paint rep. Paint CG supply and Material Contractor supply. Paint make M/s Akzonobel

FINAL RFIC REMARK

DO. Paint- Contractor supply.

AVCAT TANK (24 M³), QTY -01 NO, FUEL OIL TANK INCLUDING RU TANKS (352 M³), QTY - 12 NOS, LUB OIL TANK INCLUDING DIRTY OIL TANK (23 M³), QTY-03 NOS, SLUDGE TANK (03 M³), QTY -01 NO, FOAM TANK (29 M³), QTY-01 NO: TOTAL AREA – 2344 M²

HA-1073

All tanks to be emptied, cleaned and surveyed under supervision of class surveyor. Open manhole covers, ventilate tanks for 24/48 hours or as required to make the compartment gas free. Obtain gas free certificate by explosive department/inspector for man entry. The tanks to be visually surveyed by class surveyor by paying particular attention to strengthening members, tank air breathers and breather lines. Inway jobs includes renewal of man hole cover joints. Contractor to provide shore tanks for storing of foams (20 KL) and fuel oil (80 KL) during the maintenance period.

FINAL RFIC REMARK

DO storage space to be provided as per RFIC minutes.

HA-1074

Surface preparation and touch up paint scheme to be under taken as per paint manual (CGBR 382) (interline 850 grey and interline 850 white). Prior pain application temp, humidity, WFT, DFT etc. are to be certified by paint rep. Paint CG supply and Material Contractor supply. Paint make M/s Akzonobel

FINAL RFIC REMARK

DO. Paint- Contractor supply.

HB-1075

39 Nos Tank air vent hood side covers and wire mesh corroded and deteriorated. Tank air vent hood to be dismantled, cleaned and paint to be applied. All side covers and wire mesh to be replaced (cover size-200x270x3 MM, wire mesh Mat-SS, size-200x270x3 MM). Materials & paint Contractor supply. Type- ball type air vent hood. Inway jobs includes Contractor to plank/cover all vent line during repairing.

FINAL RFIC REMARK

DO Renewal of wire meshes only. Material & paint- Contractor supply. Renewal of side cover if any against AWRP. All inway jobs included.

GEMINI CRAFT, MAKE: AQUARIUS, GOA, TYPE- VLL 4.7 M, CAPACITY: 08 MEN

HA-1076

Two in no. Gemini lifting sling (04 legs with locking hook and ring) to be load tested. Load test certificate to be submit. (SWL – 02 ton)

FINAL RFIC REMARK

DO. Contractor to associate class surveyor during load testing.

HB-1077

Both Gemini craft bottom hull rubber fender torn and deteriorated. Rubber fender to be renewed as per sample

FINAL RFIC REMARK

DO.

HB-1078

Lifting sling hook of one Gemini found thinned down (04 leg type). To be fabricated alongwith lifting sling and load tested up to 02 Ton.

FINAL RFIC REMARK

DO.

ACCOMMODATION LADDER (P&S), M/S GEETA ENGINEERING, THANE



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HA-1079

Both Accommodation ladders (P&S) including winch and gear box to be overhauled, serviced, surveyed. All pulleys, pushes, rubber roller and wire ropes to be removed, cleaned and lubricated. Renew defective parts and gear box oil. Servo mesh 40 or equivalent, Qty: 4.3 ltrs for each gear box. Mat and spares Contractor supply. All jobs to be undertaken through OEM only

FINAL RFIC REMARK

DO spare & Material- Contractor supply. Oil- CG supply.

HA-1080

Both accommodation ladders to be load tested in fully lowered condition. Inspect for any permanent deformation post load test. SWL – 1.8T load test certificated to be issued

FINAL RFIC REMARK

DO. Contractor to associate class surveyor during load testing.

HB-1082

Both accommodation ladders resting brackets at shipside deformed. Brackets to be renewed as per sample. Bracket size- MS Angle 50 x 50 x 08 mm, Qty – 02 nos. All In way jobs include removal and refitment of thermal lagging at hot work area

FINAL RFIC REMARK

DO. Material- Contractor supply. All inway jobs included.

PORTABLE RADIAL DAVITS (FWD AND AFT), MAKE: M/S UNITED TOOLS, CHENNAI

HA-1083

All fittings appliances with associated gears of portable radial davit (02 nos) such as winch gearbox, pulleys and wires to be dismantled, overhauled and greased. Davits to be load tested and all associated structure to be surveyed by class surveyor. SWL 250 Kgs. Material – Contractor supply. Contractor to submit load test certificate.

FINAL RFIC REMARK

DO.

WATER TIGHT DOORS, HATCHES, SCUTTLES AND ESCAPE PORTS

HA-1084

Carryout 100 % visual survey of all WT door (19 nos), WT hatch (24 nos), Emergency escapes (06 nos) and scuttles (23 nos) by class surveyor.

FINAL RFIC REMARK

DO. Contractor to submit survey report.

HB-1085

Rubber beading of watertight doors and hatches found cracked and deteriorated. Rubber beading to be replaced as per sample. Rubber beading size- 38 mm width, 20 mm thick, Mat – EPDM / Neoprene rubber. Chalk test to be proved post renewal. Rubber quality certificate to be produced to ship.

Dimension are as follows: -

(I) WT doors approx size-1500 x 700 mm, Qty- 19 nos

(II) WT hatches size – 600 x 600 mm (03 nos), 800 x 800 mm (10nos), 1360 x 770 mm (10 nos), 2750 x 1850 mm (01 no), dia 600 mm (06 nos)

FINAL RFIC REMARK

DO. Material- Contractor supply. Survey to be carried out in presence of class surveyor. Contractor to submit survey report.

VENTILATION SYSTEM/ AIR CONDITIONING

HA-1087

Inspect all ventilation including funnel exhaust and AC trunking. Clean ventilation and AC trucking by blowing through with compressed air including inspection and cleaning of suction strainers and wire mess of all ventilation trunking. Total length: 850 mtrs. In way jobs includes removal and re-fitment of insulation panel during cleaning. Mat- Contractor supply.

FINAL RFIC REMARK

DO.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HA-1088

Overhaul AC diffusers and cabin units. Total quantity 148 Nos. AC return air grille (Qty-42 nos) to be cleaned. Defective flexible joints to be replaced. In way jobs includes removal and refitment of insulation panel during cleaning. Make: M/s Heinen and Hopman. Mat- Contractor supply.

FINAL RFIC REMARK

DO.

HA-1089

Mushroom hoods (Qty-14 nos), Recirculation flaps (Qty: 72 nos), Goose neck ventilation (Qty-13 Nos) and dampers closing mechanisms (08 nos) in the ventilation system to be removed, dismantled, greased and re fitted. In way jobs includes marking of mushroom hood, recirculation flaps and dampers and renewal of grease nipples.

FINAL RFIC REMARK

DO. All in way jobs included. Material- Contractor supply.

HA-1090

Replace the rubber beading of all air intake / ventilation flaps, mushroom head, goose neck ventilator. Rubber seal size- 38 mm width, 20 mm thick, Mat – EPDM / Neoprene rubber. Chalk test to be proved post renewal. Total Qty- 99 Nos. Rubber quality certificate to be produced to ship. Details are as follows: -

- (a) vent flaps approx size – 200 x 200 mm (34 nos), 400x400 mm (19 nos), 700 x 400 mm (15 nos), 1200 x 800 mm (04 nos)
- (b) Goose neck ventilator – Dia 200 mm (13 nos)
- (c) Mushroom head ventilator – Dia 500 mm (14 nos)

FINAL RFIC REMARK

DO. Material - Contractor supply.

HB-1091

Damper mechanism of 10 nos ventilation fans of Engine room and DG room are jammed. All 10 nos fans damper mechanism to be dismantled overhauled and lubricated. Materials Contractor supply.

FINAL RFIC REMARK

DO.

AIR HANDLING UNIT (04 NOS), MAKE- ZECO, FAN COIL UNIT (07 NOS), MAKE-ZECO, HEINEN &HOPMAN INDIA

HA-1092

Air Handling Unit (04 nos) to be dismantled and overhauled. Chemical cleaning and pressure testing (6 Bar) of cooling coil unit to be undertaken. Jet washing of fins to be undertaken. All bearing to be renewed as per sample. Check motor anchor bolts, vibration reducer, drive belt and shaft alignment. All spares Contractor supply. (Total Bearing – 08 in No)

FINAL RFIC REMARK

DO.

HB-1093

All 04 nos AHUs condensation water drain line clogged. All AHUs and FCUs system drain line to be dismantled and chemically cleaned. Material- GI, Dia- 50 MM, length- 40 Mtrs, Dia-20 MM, Length- 100 Mtrs

FINAL RFIC REMARK

DO. Material- Contractor supply. All inway jobs included.

HA-1094

Fan Coil Unit (07 nos) to be dismantled and overhauled. Coil unit to be cleaned and pressure tested. All bearing to be renewed as per sample. All spares Contractor supply (Total Bearing – 14 in No.)

FINAL RFIC REMARK

DO.

HB-1095



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Condensation/ water leakage observed through all 04 nos AHUs chilled deck drain pipe due to insulation damaged/ ageing. Insulation to be renewed and proved. Total length- 28 Mtrs approx., Dia- 50 MM.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1096

Spiral duct for passing/ flowing of conditioned air found damaged/ deteriorated at several places. To be renewed/ repaired as per sample. Length- 25 Mtrs approx., Dia-220 mm approx. All inway jobs included. Spares Contractor supply.

FINAL RFIC REMARK

DO.

SCUPPER AND DRAINS

HA-1097

Open 50 % drain pipes and chemically clean. Pressure tested to 2 bar, painted, colour coded and fitted back. Material: GI, Dia 65 mm, length: 40 mtrs, Dia 80 mm, length: 30 mtrs, Dia 20 mm, length: 20 mtrs, Dia 50 mm, length: 60 mtrs

FINAL RFIC REMARK

Do only 25 % of total drain pipe lines. Paint & material- Contractor supply. All inway jobs included.

HB-1098

20 nos scupper rubber lips at ship side deteriorated and broken. To be renewed along with securing flange, studs and nuts. In way jobs includes removal and refitment of thermal lagging and insulation panel

FINAL RFIC REMARK

DO. Material- Contractor supply.

CABLE LOCKER (249 M²), HAWSE PIPE & NAVAL CHAIN PIPE (25 M²) TOTAL AREA – 274 M²

HA-1099

Thoroughly clean the cable lockers after removing the bottom perforated plates

FINAL RFIC REMARK

DO.

HA-1100

Clean out sump and inspect suction strainer and box for damage/clearance. Examination of structure by class surveyor, particularly area in vicinity of cable clench, ships side behind protection plates and bars, junction between plating and horizontal stiffeners by class surveyor

FINAL RFIC REMARK

DO Material- Contractor supply. Contractor to submit survey report.

HB-1101

Surface preparation and touch up paint scheme to be undertaken as per paint manual (CGBR 382). Surfaces prior to application of painting temp, humidity, paint preparation, WFT, DFT etc. are to be certified by paint rep. Paints Contractor supply. Paint make M/s Akzonobel. Details of coat as follows:

- (a) Intertuf 262 KHA304/A Grey-01 coat.
- (b) Intertuf 262 KHA 302/A Black-01 coat

FINAL RFIC REMARK

DO Paint & material- Contractor supply.

HELO HANGAR SHUTTER, MAKE: TTS OFFSHORE SOLUTIONS AS, NORWAY

HA-1102

Hangar shutter gear box to be removed and overhauled. Spares Contractor supply

FINAL RFIC REMARK

DO All inway jobs included.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HB-1103

Rubber beading of hangar shutter found perished/cracked at various places and causing water ingress during washing/rain in hangar. To be renewed as per sample and proved for water tight integrity. Mat- Neoprene, Length-5.7 Mtrs approx. thickness – 20 mm).

FINAL RFIC REMARK

DO Material- Contractor supply.

STP, MAKE: EVAC, MODEL: ORCA-LV 35, PAC FIRM M/S VACMAN SOLUTIONS, MUMBAI. ALL ROUTINES DEFECTS TO BE CARRIED OUT THROUGH OEM/PAC FIRM ONLY.

HA-1111

Fixed H₂S sensor to be calibrated and certificate to be issued

FINAL RFIC REMARK

DO.

VACUUM TOILET SYSTEM, TYPE- EVAC ONLINE EVAC 52, MAKE: EVAC MARINE, PAC FIRM M/S VACMAN SOLUTIONS, MUMBAI. ALL ROUTINES DEFECTS TO BE CARRIED OUT THROUGH OEM/PAC FIRM ONLY.

HA-1114

All flanged vacuum pipe lines to be opened, chemically cleaned and pressure tested to 2 bar pressure, painted. Dia: 65mm, Length - 60 Mtrs, Dia 50 mm, length 160 Mtrs, Dia: 100 mm, length- 50 Mtrs. All in way jobs included. Post fitment of pipe lines Contractor to undertake pressure/ vacuum test and prove the system under supervision of OEM rep

FINAL RFIC REMARK

DO.

WATER TIGHT SLIDING DOOR, QTY-01, MODEL- 443 ALBATROS, MAKE: WINEL BV, NETHERLANDS,

HA-1117

Sliding door hydraulic cylinders (02 nos) to be dismantled and overhauled. Renew hydraulic oil and filter. Spares Contractor supply. Post routine functional checks to be carried out

FINAL RFIC REMARK

DO.

HA-1118

Survey of the door structure by class surveyor to be undertaken. NDT test to be carried out on all weld joints

FINAL RFIC REMARK

DO.

HA-1119

Scrap old paints and apply new paint of water tight door and system fittings

FINAL RFIC REMARK

DO. Paint- Contractor supply. Size 800X400mm.

HB-1120

Overflowing of hydraulic oil observed from emergency hand pump operation tank at deck 2. Hydraulic back pressure from system observed. Defect to be rectified

FINAL RFIC REMARK

DO. Material- Contractor supply.

MOORING CAPSTAN, MODEL- EXP-DJP-50, MAKE: M/S TAIHING EXPANSION MARINE EQUIPMENT CO. LTD CHINA, SUPPLIER- M/S SOLAS MARINE SERVICES, UAE

HA-1121



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Mooring capstan and gear box to be dismantled, overhauled, check the condition of bush and bearings. Gear box oil and oil seal to be renewed. All in way jobs included. Material / spares – Contractor supply

FINAL RFIC REMARK

DO. Oil- CG supply.

HA-1122

Load testing of Mooring Capstan to be carried out. SWL- 05 tons. Contractor to submit load test certificate

FINAL RFIC REMARK

DO. Contractor to carry out Load testing in association with class surveyor.

ANCHOR CAPSTAN (P&S), MODEL- EXP-DMJP-38-00, MAKE: M/S TAIHING EXPANSION MARINE EQUIPMENT CO. LTD, SUPPLIER: M/S SOLAS MARINE SERVICES EST, UAE

HA-1123

Capstan gear boxes (P&S) to be dismantled, overhauled, check the condition of bush and bearings, defective to be renewed. Gear box oil (Servo Mesh SP 220) and oil seal to be renewed. All in way jobs included. Material / spares – Contractor supply

FINAL RFIC REMARK

DO. Oil - CG supply. Contractor to provide trials as per HA-1126.

HB-1124

Capstan warping drum and cable lifters (P&S) to be dismantled, cleaned, Check the condition of bush. To be greased and fitted back. All in way jobs included. Material / spares – Contractor supply

FINAL RFIC REMARK

DO.

HA-1125

Capstan brake gear boxes, lead screws and pivot assemblies (P&S) to be dismantled& overhauled. Brake friction lining to be renewed as per sample. All in way jobs included. All grease nipples to be renewed. Material / spares – Contractor supply

FINAL RFIC REMARK

DO.

SELF-ARTICULATED CRANE (P&S), MAKE: WEST MARINE SINGAPORE/ MUMBAI. MODEL: TKC 2090

HA-1127

Both cranes hydraulic power pack to be dismantled, overhauled and flush the hydraulic system upto NAS-6. In way jobs includes nut/bolt to be renewed. Spares Contractor supply

FINAL RFIC REMARK

DO. Material- Contractor supply. Spare CG supply.

HA-1128

Filters to be replaced. Hydraulic Oil capacity- 480 ltrs for each crane, Type- shell M 46. In way jobs include gasket to be replaced. Spares and hydraulic oil Contractor supply

FINAL RFIC REMARK

DO. Oil CG supply.

HA-1129

Both crane hydraulic cylinders (slewing, luffing & telescopic cylinders) to be dismantled and overhauled. All inway jobs included. Spares Contractor supply

FINAL RFIC REMARK

DO. Material- Contractor supply. Spare CG supply.

HA-1130



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Both crane control lever console to be removed and overhauled. All inway jobs included. Spares Contractor supply

FINAL RFIC REMARK

DO. Material- Contractor supply. Spare CG supply.

HA-1131

All flexible hydraulic hoses (Qty-10 nos for each crane) passing through the foundation housing and metallic hoses (Qty-34 Nos for each crane) are perished, corroded/deformed. All hoses to be renewed as per sample through OEM firm. Material- SS 316 for metallic hose, Pressure-300 bar. Renewal of hoses not feasible during operational period view metallic hoses fitted on power pack and cylinder with zig-zag shapes.

FINAL RFIC REMARK

DO. Material- Contractor supply. Spare CG supply.

HA-1132

Remove both cranes wire ropes and examine for serviceability, clean corrosion marks if any, grease and fit back. If the rope found excessive wear, twisted, broken, severe corrosion or 5% broken wires in the length of 10 times rope dia renew the same. Material and spares Contractor supply. All in way jobs included (Dia- 12mm, Approx length- 30 m each, Non rotating, Galvanised and greased)

FINAL RFIC REMARK

DO. Renewal if any against AWRP.

HB-1133

Both crane hook securing thimble eyes found bent/ deformed. Thimbles to be replaced and grimed hydraulically. Load test to be proved.

FINAL RFIC REMARK

DO.

HA-1134

Re-screw the pedestal bolts at rated load condition/torque as recommended in manual.

FINAL RFIC REMARK

DO.

HA-1135

Load testing of wire rope and PC Crane (P&S) to be undertaken. Contractor to submit load test certificate. All in way jobs included. Crane SWL-2 T. Test as follows: -

- (a) No load test – Full operation without load.
- (b) Load test – full operation with 2T load.
- (c) Dynamic Load test- Full operation with 2.2T load.
- (d) Static overload test – place 2.5T load using another crane (no winch operation)

FINAL RFIC REMARK

DO. Contractor to associate class surveyor for load testing and submit test certificates.

HB-1136

Both crane electric cable reel retaining spring mechanism found stuck. To be repaired through OEM/PAC.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1137

Hydraulic tank filter breather (01 no for each crane) corroded and deteriorated. Tank filter breather to be replaced as per sample during overhauling of power pack. OEM part no- WM2104-2007, Qty- 02 Nos

FINAL RFIC REMARK

DO. Material- Contractor supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HB 1138

Hydraulic tank oil level gauge faded/ discoloured. Oil level gauge to be replaced overhauling of power pack. OEM part no- WM2104-2006, Qty – 02 nos

FINAL RFIC REMARK

DO. Material- Contractor supply.

HYDRAULIC BOAT DAVIT AND BOOM (P&S), MAKE: M/S MACGREGOR, MODEL HMD A 38 MK2 D

HA-1139

Check both accumulator cylinders' nitrogen pressure in accumulator according to flow diagram value. Use MacGregor manometer fill/check instrument. If nitrogen pressure is too low, fill nitrogen. Pre-charge nitrogen is 55 bar. Replace cover screw and cap of accumulator cylinder filling point. Check mounting bracket (bolts, nuts) and pressure test the accumulator cylinder.

FINAL RFIC REMARK

DO.

HA 1140

Check the structural parts of davit and tightness of all fasteners

FINAL RFIC REMARK

DO.

HA 1141

Both Sea boat davits hydraulic rubber hoses (Qty-46 Nos each) to be renewed as per sample by OEM. Material and spares Contractor supply

FINAL RFIC REMARK

DO.

HA-1142

Replace steel wire rope of both davits (Length- 30 Mtrs, Dia-19 MM, construction-35x7 Comp Galv 1960 N RHLL-ZZ MBL-325 Kn each). Load testing of wire rope and davit (P&S) to be undertaken. SWL of boat davit 3.8 tons and dynamic load is 1.1 time of SWL. All inway jobs included. Contractor to submit load test certificates

FINAL RFIC REMARK

DO. Material Contractor supply. Load testing to be carried out in presence of class surveyor.

HA-1143

Both boat davit winch motor, winch gearbox and electromotor hydraulic pump to be dismantled & overhauled. Spares/ parts if required to be replaced. Hydraulic oil to be replaced along with hydraulic oil filter and breather filter. Hydraulic oil type- Castrol HYSPIN AWH 68, capacity- 350 ltrs for each davit. Spares and hydraulic oil Contractor supply.

FINAL RFIC REMARK

Do. Material Contractor supply. Spares CG supply.

HB-1144

Both davit painter boom slewing operation found slow. Towing boom hydraulic cylinder to be dismantled and overhauled. Parts renewed if required. Spares Contractor supply.

FINAL RFIC REMARK

Do. Material Contractor supply. Spares CG supply.

HB-1145

Both davit towing boom restrictor check valve (02 nos each) corroded and flow of hydraulic oil observed restricted to be replaced. OEM part no-1000633, Qty -04 nos

FINAL RFIC REMARK

DO. Spares Contractor supply

HB-1147

Both davits hydraulic dampened docking system not working properly. Rotation of both longitudinal and transverse damping motion not moving freely. 04 nos dampening hydraulic cylinders and 01 no



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Nitrogen accumulator (shock absorber) for each davit to be dismantled checked and serviced. Nitrogen pressure to be checked and filled if low pressure than set pressure of 5 bar. All inway jobs are included. Spares Contractor supply

FINAL RFIC REMARK

DO. Material Contractor supply. Spares CG supply.

HB-1148

Hydraulic oil seepage observed through control levers of both davit fitted on operation panel. Suspect oil diaphragm/ valve damaged. Control levers to be dismantled and overhauled by OEM/PAC. Spares Contractor supply.

FINAL RFIC REMARK

DO. Material Contractor supply. Spares CG supply.

SEA BOAT (P&S), MAKE: M/S NORSAFE, MODEL- MAKO 655 MKI STERNDRIVE, K4-D

HA-1150

Inspection and testing of single point off load release hook on console (K4-D FM, SWL 4T with docking head) to be carried out through OEM/ Authorised service personnel. Test report to be issued

FINAL RFIC REMARK

DO.

HA-1151

Self-Righting System along with CO₂ cylinders (cap- 3 kg CO₂ each) of both sea boat to be overhauled and cylinders to be pressure tested & recharged. Both bags of self-righting system to be replaced. All inway jobs included.

FINAL RFIC REMARK

DO.

HB-1152

Both sea boat release hook safety pin found bent / deformed due to excessive use and facing difficulty during locking/ unlocking with davit hook. 02 nos safety pin (SWL-4 Ton) alongwith lashing wire to be renewed as per sample. Spares Contractor supply.

FINAL RFIC REMARK

DO.

HB-1153

Both sea boat internal and outer FRP hull to be painted with gel coat and stickered as per sample. All reflector tapes to be renewed as per sample. (Paint Contractor supply)

FINAL RFIC REMARK

DO.

HB-1154

Rubber surface of aft air chambers of Stbd sea boat both side found thinned/perished and linear cracks at several places due to frequent repairs and further repair is not feasible/cost effective. Entire aft chambers to be renewed with same material and proved for satisfactory performance (Length- 900 MM approx., Qty-02 Nos). All inway jobs included.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1155

FRP lamination/coating of forward deck area of Port side RHIB found damaged/ cracked (Size- 400x350 mm) and securing bolts of front guard uprooted from base during boarding operation due to impact with boarding boat. Defect to be rectified and proved for satisfactory performance.

FINAL RFIC REMARK

DO. Material- Contractor supply.

RAIL-LESS HELO TRAVERSING SYSTEM, MAKE- M/S L&T, POWAI, MUMBAI

HA-1158



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

03 nos hydraulic oil tank to be drained and tank to be cleaned, hydraulic oil to be renewed. Tank capacity – 250 ltrs each, Type of oil – Servo VG 68

FINAL RFIC REMARK

DO. Hydraulic oil CG supply

HA-1159

03 nos hydraulic tank air breather to be renewed. Make- Donaldson, Model- Code P 566037

FINAL RFIC REMARK

DO. Material- Contractor supply.

HA-1160

Replace all flexible hydraulic hoses of Helo Traversing System. Details are as follows: -

- (a) Hose ID-6.3 MM, Length – 2 Mtrs (Manufacturer part no- 5083) – Qty 05 Nos
- (b) Hose ID-12.7 MM, Length – 2 Mtrs (Manufacturer part no- 5084) – Qty 05 Nos
- (c) Hose ID-15.9 MM, Length – 2 Mtrs (Manufacturer part no- 5085) – Qty 10 Nos

FINAL RFIC REMARK

DO. Hoses Contractor supply.

HA-1161

Check the 03 nos heat exchanger for clog. Clean the heat exchanger tube stack. 03 nos ball valve (size-32 mm) on sea water cooling line to be overhauled

FINAL RFIC REMARK

DO. Material- Contractor supply.

HA-1162

Following to be undertaken as 5 Yearly routine, spares if required to be replaced. Spares Contractor supply: -

- (a) Examine and overhaul hydraulic power pack
- (b) Look for burnt patch, torn patch, crack or bend or worn out of gaskets, replace if any.
- (c) Inspect/ service the all wire ropes (05 Nos) and load test for SWL-6.8 T
- (d) Examine and overhaul winch, rope and rope guidance assembly.
- (e) Examine and overhaul helicopter attachment fixtures
- (f) Check all the electronic components
- (g) Check sensors proper functioning

FINAL RFIC REMARK

DO material Contractor supply. Spares CG supply

MISCELLANEOUS

HA-1164

Load test of 270 mtrs guard rails with end fitting to be carried out. Test certificate to be rendered. SWL – 2 Tons, Test load – 2.2 / 2.5 Tons. Total Quantity – 118 in No.

FINAL RFIC REMARK

DO. Renewal if any against AWRF.

HB-1166

Ships gangway (fwd and aft) stanchions shoes broken, frame buckled, and supporting structure cracked at 06 places. To be repaired. Gangway (02 nos) to be load tested up to 1.6 tons uniformly distributed load. (Mat: Aluminium). Material - Contractor supply. All in way jobs included

FINAL RFIC REMARK

DO. Contractor to associate class surveyor and submit load test certificates.

HB-1168

Main transverse frame structure (FR-5, port side) connecting quarterdeck to helo deck found deformed / dented. Cropping and renewal of frame structure to be undertaken as per surveyor recommendation. Size – 700 X 200 X 10 MM, Mat – MS.

FINAL RFIC REMARK

DO.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HB-1169

Three in number mushroom hood covers at weather deck corroded and holed. Mushroom cover to be renewed as per sample. size 315 mm diameter, Mat-MS, thickness – 06 mm

FINAL RFIC REMARK

DO in conjunction with HA 1089. Material- Contractor supply

HB-1170

Cold room & cool room drain line to be dismantled, cleaned and re-fitted (Dia – 50 mm, Mat-GI, Length – 10 Mtrs).

FINAL RFIC REMARK

DO. Material- Contractor supply. All inway jobs included.

HB-1177

Ships galley garbage disposal machine making abnormal sound and belt thickness found thinned down. Suspect bearing/gear mechanism defective. System to be overhauled and proved for satisfactory performance.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1178

35 Nos shoe rack in 28 navik mess, 30 navik mess and 12 p/nvk mess found broken/defective. To be repaired/welded(Mat-MS). Job involves renewal and fitment of locking arrangement.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1179

15 Nos office/ cabin door locks found defective. Lock mechanism to be overhauled/ repaired and prove for satisfactory performance (Make- Sung MI, Lever-06). Job involves repairs of door frame key holes.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1180

Foundation/ shoes (Size-300x250 MM, 400X400 MM, Thickness-12 MM, Mat-MS) of Jack Staff and Ensign Staff alongwith lower portion of schedule pipes (Dia- 65 MM, Mat- MS/GI) found thinned down and corroded due to fair wear and tear. To be cropped, fabricated and welded.

FINAL RFIC REMARK

DO. Material- Contractor supply. All inway jobs included.

HB-1181

10 Nos file rack (Make-GS) in electrical office, flight deck office and training office found defective/ non operation. To be repaired. Job involves following: -

- (a) Replacement of sliding channels
- (b) Renewal of drawer handles as per sample
- (c) Repairing of front doors of file rack

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1182

02 nos FAS roller fitted at foxle (Port & Stbd) found jammed due to erosion/ fair wear and tear of bushes fitted both end of roller. Rollers to be dismantled and bushes to be renewed as per sample and system to be proved.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1184

06 Nos helodeck safety net frame alongwith brackets corroded/ thinned down. To be fabricated and welded (Mat-MS/GI, Dia-40 MM, Length- 08 Mtrs).



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1187

MFMB lagging/ heat insulation(A30/A60) in ASP, Gymnasium, ATUs, STP and fan rooms found perished/ uprooted and detached from surfaces. To be renewed as per sample and secured with bulkheads and decks. Total area for A30 insulation-50 SqMtrs, A60 insulation- 220 SqMtrs. All inway jobs included.

FINAL RFIC REMARK

DO material Contractor supply.

HB-1189

Cable tray alongwith clamps fitted at Quarter deck head for securing of electrical cables found excessively corroded and thinned down due to fair wear and tear. Cable tray and clamps to be renewed as per sample and cables to be secured with SS nuts & bolts (Length-50 Mtrs approx., Width-120 MM, Thickness-5 MM, Mat-GI. All inway jobs included.

FINAL RFIC REMARK

DO. Material- Contractor supply. All inway jobs included.

HB-1190

07 Nos footsteps (chequered plate) in front of weather deck doors found corroded and holed/thinned down. To be cropped, fabricated and welded as per sample alongwith brackets (Size-650x400x12 mm each, Mat-MS). All inway jobs included.

FINAL RFIC REMARK

DO. Material- Contractor supply.

SUPPLEMENTARY DEFECT LIST

HB-1191

04nos (MCR & junior sailor washroom) door frame found corroded/cracked. Door frame door frame to be renewed as per sample and proved satisfactory. Mat-MS Job involves renewal of door locking arrangement. Make-sung-Mi. Mat-SS.

FINAL RFIC REMARK

DO. Material- Contractor supply.

HB-1192

12 Nos liferaft securing cradle towards the ship sides to be shortened by 10 inch and proved safe securing of liferaft Inway job include removal and placing liferaft.

FINAL RFIC REMARK

DO.

HB-1193

01 in no galley wash basing to be lowered by 01feet. Drain deck penetration piece underneath basing and drain pipe deteriorated to be renewed as per sample. Pipe dia underneath 50mm, length-12mtr, pipe dis-65mm, length-03 mtr. Sediments collector with services flange and valve (1/2 inch) deteriorated to be renewed as per sample. mat-GI schedule 40. Scope of work also includes renewal of 06 no pipe supports.

FINAL RFIC REMARK

DO.

HB-1194

Main transverse frame structure (FR-5, stbd side) connecting quarterdeck to helo deck found deformed / dented. Cropping and renewal of frame structure to be undertaken as per surveyor recommendation. Size -700 X 200X 10 MM, Mat-MS.

FINAL RFIC REMARK

DO in conjunction with HA-1037



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

HB-1195

02 Nos hydraulic hosepipe securing cover plate at port & stbd boat deck found corroded / cracked. Some to be fabricated/renewed as per sample. Mat-SS, size each Length-05 mtrs, breath-50cm, thikness-05mm.

FINAL RFIC REMARK

DO.

HB-1196

BO panels for bulkheads of barber shop found deformed / dented at various places. To be fabricated/renewed as per sample (Area-08 sq Mtrs).

FINAL RFIC REMARK

DO.

HB-1197

Junior sailor & senior sailors dining hall water cooler & food warmer drain line chocked / jammed frequently view small diameter of drain line since commissioning. Drain line pipe to be fabricated and pipe extended upto 03 Inch and system proved. Mat-MS, Length-12Mtrs.

FINAL RFIC REMARK

DO.

HB-1198

Push button locking systems in mess decks' shoe racks and cupboards malfunctioning. To be replaced as per sample (Qty 90 Nos) s

FINAL RFIC REMARK

DO.

Note:

(1) Please note that in the above DL's, wherever "Contractor Supply" specified it is understood that it is "Contractors/Refitting firm's supply"



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ICGS VIKRAM
MAIN DEFECT LIST SR-1 - ENGINEERING

CPP & SHAFTING, MAKE: M/S SCHOTTEL, GERMANY, MODEL: SCP 109/5-XG, QTY: 02 NOS.
TO BE UNDERTAKEN IN ASSOCIATION WITH OEM/PAC FIRM & CLASS SURVEYOR

EA 3001

Propeller blades, propeller shafts and associated underwater fittings are to be visually inspected for any damage. Ensure tightness of securing bolts of propeller blades and locking strips/ wires. Inspect seal area on blade foot. Check condition of blade O-rings

Final Remarks of RFIC

DO. Contractor to undertake survey in association with COA, SS and class surveyor.

Material- Contractor supply. All in way jobs included.

EA 3002

Both propeller blades are to be checked for smoothness of edge, pitting and surface deterioration. Both Propellers and hubs are to be buffed and coated with grease. Acceptance of extent of pitting and edge distortion is to be sought from refit overseeing authority/ class surveyor.

Final Remarks of RFIC

DO. Contractor to undertake survey in association with COA, SS and class surveyor.

EA 3003

Remove eddy plates and rope guards of 'A' brackets 'P' brackets and stern tubes of Port and Stbd shafts for access, inspection and measurement of bush clearances in presence of class surveyor. All eddy plates and rope guards are to be cleaned, painted as per underwater paint scheme and fitted back on completion of inspection and measurement of clearances. All fasteners and lock wires are to be renewed.

(Paint, fasteners and material: Contractor supply)

Final Remarks of RFIC

DO. Contractor to undertake survey in association with COA, SS and class surveyor.

Material – Contractor Supply. All in way jobs included.

EB 3005

Check Clearances between 04 rope cutter blades and propeller hub of both the shafts.

Final Remarks of RFIC

DO.

EA 3006

Clearance readings of Port and Stbd stern tubes, 'A' and 'P' brackets bearings are to be taken with poker gauge and filler gauge immediately after docking and immediately prior to undocking with class surveyor. A report is to be rendered giving comparative assessment of clearance readings w.r.t initial readings. Report is to be duly vetted by CGRPT staff/ OEM / Class surveyor.

Final Remarks of RFIC

DO.

STEERING GEAR SYSTEM, MAKE: M/S VANDER VELDEN, NETHERLANDS, MODEL: BST110-3.
TO BE UNDERTAKEN IN ASSOCIATION WITH OEM/ PAC FIRM AND CLASS SURVEYOR

EA 3007

Visually inspect rudder surfaces for pitting marks.

Final Remarks of RFIC

DO. Class Surveyor to be involved for EA-3007, 3009 and 3010.

EA 3008

Renew both rudder gland packing. (Material: Contractor supply).

Final Remarks of RFIC

DO. Class Surveyor to be involved for EA-3007, 3009 and 3010.

EA 3009

Record rudder jumping clearance and bush clearance.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC

DO. Class Surveyor to be involved for EA-3007, 3009 and 3010.

EA 3010

Check rudder stock clearance during dry dock and compare with installation readings.

Final Remarks of RFIC

DO. Class Surveyor to be involved for EA-3007, 3009 and 3010.

BOW THRUSTER, MAKE: ZF MARINE, HOLLAND, MODEL: ZF TT 4004 FP (TYPE 4000). TO BE UNDERTAKEN IN ASSOCIATION WITH OEM/ PAC FIRM AND CLASS SURVEYOR

EA 3011

Check condition of propeller and record tip clearance. Compare with initial readings

Final Remarks of RFIC

DO

EA 3012

Check tightening of outboard bolts and nuts. Compare with initial readings. Deteriorated bolts and nuts to be renewed (Mat- Contractor supply).

Final Remarks of RFIC

DO renewal of defective nut & bolts, if any against AWRF.

EA 3013

Renew sacrificial anodes (Qty-04 Nos.) (Material- Contractor supply)

Final Remarks of RFIC

DO

FIN STABILIZER, MAKE: M/S LARSEN & TOUBRO, MODEL: NON-RETRACTABLE/ L&THED (+/- 8528 DEGREE), QTY: 02 NOS. TO BE UNDERTAKEN IN ASSOCIATION WITH OEM/ PAC FIRM AND CLASS SURVEYOR

EA 3014

Measure both stabilizers fin clearance (Between Hull and Fin). A report is to be rendered giving comparative assessment of clearance readings w.r.t initial readings. Report is to be duly vetted by CGRPT staff/OEM/ Classification society.

Final Remarks of RFIC

DO as per DL serial in association with COA, SS and Class surveyor.

EA 3015

Renew both fin gland packing in association with OEM/ PAC firm.
(Material: Contractor supply)

Final Remarks of RFIC

DO through Contractor.

EA 3016

Check fin/stock coupling and securing arrangement

Final Remarks of RFIC

DO through Contractor.

SEA CHEST VALVES

EA 3017

Following 25 Nos. Main Sea Chest valves and sea tubes connected valves to be removed and overhauled. Post overhaul, valves are to be pressure tested (test pressure: 04 bar) and painted as per existing paint scheme (paint Contractor supply). Contractor to cater for renewal of spindle, valve seat for all valves (irrespective of size and type of valve), flap of butterfly valve (including vulcanisation) and renewal of all fasteners (nuts and bolts) with SS material: -

Ser. Description	Size (mm)	Type	Qty(nos)
-------------------------	------------------	-------------	-----------------



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(a) Main Engine Sea chest	500	Butterfly	02
(b) Main Engine Sea chest strainer outlet valve	300	Butterfly	02
(c) Main DG sea chest	65	SDNR	04
(d) Gear boxes sea chest	80	SDNR	02
(e) Fi-Fi Pump sea chest (including overhauling of remote mechanism)	300	Butterfly	02
(f) A/C sea chest	150	SDNR	02
(g) Fwd Fire & Sprinkler pump sea chest	150	SDNR	01
(h) Bilge & Ballast pump sea chest	150	SDNR	02
(j) Emergency Fire pump sea chest	100	SDNR	01
(k) RO plant sea chest	40	SDNR	01
(l) Ref sea chest	40	SDNR	01
(m) WHR sea water pump suction	80	Butterfly	02
(n) Aft fire pump suction	150	SDNR	01
(p) Fi-Fi Pump discharge valve (including overhauling of remote mechanism)	250	Butterfly	02

Final Remarks of RFIC

DO. Renewal of spares as per RFIC minutes.

MAGAZINE FLOODING VALVE

EA 3018

Magazine flooding valve (size-50 mm, type-SDNR, Qty -01), to be removed, overhauled & pressure tested (test pressure: 04 bar). To be painted as per existing paint scheme (paint Contractor supply). Contractor to cater for renewal of spindle (Mat-Brass), valve seat (Mat-Brass) and all fasteners (nuts and bolts) with SS material. Mat: -Contractor supply

Final Remarks of RFIC

DO. Renewal of spares as per RFIC minutes

OVERBOARD VALVES

EA 3019

Following 34 nos. overboard valves to be removed and overhauled. Post overhaul, valves are to be pressure tested up to 1.5 times of working pressure and painted as per existing paint scheme (paint Contractor supply). Contractor to cater for renewal of spindles, valve seat for valves (irrespective of size and type of valve) and renewal of all fasteners (nuts and bolts) with SS material (Mat- Contractor supply): -

Ser.	Description	Size (mm)	Type	Qty(nos)
(a)	Main Engine	200	SDNR	02
(b)	Main DG	65	SDNR	04
(c)	Gear boxes	80	SDNR	02
(d)	Fi Fi Pump	50	SDNR	02
(e)	A/C Condenser	150	SDNR	01
(f)	Fire & Sprinkler pump	40	SDNR	02
(g)	Bilge pump	80	SDNR	02
(h)	Bilge & Ballast pump	80	SDNR	02
(j)	Emergency Fire pump	80	SDNR	01
(k)	WHR Plant	80	SDNR	02
(l)	RO plant	50	SDNR	02
(m)	Ref plant	50	SDNR	01
(n)	Fixed Eductor system	100	SDNR	05
(p)	CPP	50	SDNR	02
(q)	OBS	50	SDNR	02
(r)	Stabilizer	50	SDNR	02

Final Remarks of RFIC

DO. Renewal of spares as per RFIC minutes.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

SEA CHEST AIR BLEED VALVES

EA 3021

18 Nos. Sea Chest air blowing valves (Size: 20 mm, Type: SDNR) to be removed, overhauled pressure tested (Test pressure: 09 bar) and painted as per approved paint scheme (paint Contractor supply). Contractor to cater for renewal of spindles, valve seat of valves and renewal of all fasteners (nuts and bolts) with SS material.

Material Contractor supply

Final Remarks of RFIC

Do 50% only and renewal of 50% valves. Material and valves Contractor supply.

SEA CHEST STRAINERS

EA 3022

Following 22 nos. sea chest strainers found deteriorated. To be re-fabricated and renewed as per sample with material- SS 316L. In way job includes removal and re-fitment of associated components (Mat- Contractor supply): -

Ser	Description	Size (mm)	Qty
(a)	Main Engine Strainer	690x450	02
(b)	DA sea chest strainer	200x400	08
(c)	Gear box S/By pump	100x400	04
(d)	Ref Condenser pump	100x130	01
(e)	Fire & Sprinkler Pump	84x270	01
(f)	Bilge & ballast pump	84x270	02
(g)	AC condenser pump	300x400	02
(h)	RO plant	100x150	02

Final Remarks of RFIC

DO 50% only. Material and Strainer- Contractor Supply. All in way jobs included (Material- SS-316L, Thickness-03 mm).

EA 3023

Following sea chest duplex strainers change over lever to be overhauled, painted as per existing paint scheme (paint Contractor supply), fitted back and proved for satisfactory operation. Contractor to cater for renewal of spindles. Material: Contractor supply: -

Ser.	Description	Qty
(a)	Main DG	04
(b)	Gear boxes sea chest	02
(c)	RO plant	01

Final Remarks of RFIC

DO. Material - Contractor supply.

MAIN ENGINES (PORT & STBD), MAKE: M/S MTU, GERMANY; MODEL: MTU 20V 8000 M71L, CAPACITY: 9100 KW. 8000 HRLY ROUTINES THROUGH PAC FIRM: M/S MTU (I), PUNE (Spares/ Kit: CG supply)

EA3025

Engine to be preserved as per MTU's latest preservation manual and to be de-preserved on completion of refit period.

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3026

Check condition visually of misalignment accommodating coupling

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3027

Remove and clean intercooler

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3028

Overhaul pressure reducing station

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3029

Overhaul air starting motor including renewal of bearing and change grease.

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EB 3030

Both Main Engine plate type heat exchangers to be chemical cleaned and pressure tested. Test pressure: 07 Bar. Spares: CG supply

Final Remarks of RFIC

DO through PAC firm. Spare CG supply

EB 3031

Coolant leakage observed from SME coolant pump. Coolant pump to be overhauled. Mechanical seal and defective parts to be renewed.

Final Remarks of RFIC

DO through PAC firm. Spare CG supply

EB 3032

Sea water leakage observed from SME raw water pump rotary seal. Pump to be overhauled. Seals and defective parts to be renewed.

Final Remarks of RFIC

DO through PAC firm. Spare CG supply

EB 3033

LP and leak off fuel pipe line of Both Main engines corroded. Pipe lines to be renewed as per sample (Qty-08 Nos.).

Final Remarks of RFIC

DO through PAC firm. Spare CG supply

**GEAR BOX (PORT & STBD), MAKE: M/S SIEMENS, MODEL: GHCK900, CAPACITY: 9100 KW,
GEAR RATIO: - 1: 4.905,
QTY- 02 NOS. JOB THROUGH OEM/PAC FIRM**

EA 3034

Clean and pressure test of lub oil coolers (WP of shell side- 25 bar & tube side-2.0 bar, Test pressure-1.5 times of working pressure).

Final Remarks of RFIC

DO through OEM/ COA approved competent firm. Material Contractor supply. Spares CG supply.

EA 3035

Check contact pattern of gear wheel flanks

Final Remarks of RFIC

DO through OEM/ COA approved competent firm. Material Contractor supply. Spares CG supply.

EA 3036

Check propeller thrust bearing for axial clearance and alignment of shafts

Final Remarks of RFIC



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO through OEM/ COA approved competent firm. Material Contractor supply. Spares CG supply.

EA 3037

Overhaul built-on sea water pumps (Qty-02 Nos.). Renew antifriction bearings, mechanical seal and any other defective parts. Pumps to be painted as per existing paint scheme. Spares & material Contractor supply.

Final Remarks of RFIC

DO through OEM/ COA approved competent firm. Material Contractor supply. Spares CG supply.

EA 3038

Overhaul motor driven sea water pumps (Qty-02 Nos.). Mechanical seals of both pumps and other defective parts to be renewed. After overhauling pumps to be proved for rated output. Pumps to be painted as per existing paint scheme. Spares & material Contractor supply.

Final Remarks of RFIC

DO through OEM/ COA approved competent firm. Material Contractor supply. Spares CG supply.

EA 3039

Overhaul built-on control oil pumps (Qty-04 Nos.). Renew antifriction bearings, mechanical seal and any other defective parts. Pumps to be painted as per existing paint scheme. Spares & material Contractor supply.

Final Remarks of RFIC

DO through OEM/ COA approved competent firm. Material Contractor supply. Spares CG supply.

EA 3040

Overhaul motor driven lub oil pumps (Qty-02 Nos.). Renew antifriction bearings, mechanical seal and any other defective parts. After overhauling pumps to be proved for rated output. Pump to be painted as per existing paint scheme. Spares & material Contractor supply.

Final Remarks of RFIC

DO through OEM/ COA approved competent firm. Material Contractor supply. Spares CG supply.

EB 3041

Both gear box built on sea water pump vent line corroded. Vent line along with connectors/ unions to be renewed as per sample (Dia-16mm, length-9 Mtr, Material-Cu) (Material Contractor supply).

Final Remarks of RFIC

DO.

CPP & SHAFTING, MAKE: M/S SCHOTTEL, GERMANY; MODEL: SCP 109/5-XG, QTY: 02 NOS. JOB THROUGH OEM/PAC FIRM

EA 3042

Carry out chemical cleaning and pressure testing of CPP oil cooler. Test pressure: 1.5 times of working pressure. Test pressure of shell -15 bar, Test pressure of tubes-3 bar.

Final Remarks of RFIC

DO

EA 3043

Carry out visual inspection of hub paying particular attention to screwed connection with locking, blade surface with regard to wear, roughness and damages

Final Remarks of RFIC

DO through PAC firm. Spares CG supply

EA 3044

Check seal sets of hub and blades

Final Remarks of RFIC

DO through PAC firm. Spares CG supply

EA 3045

Check shaft seal rings work well for excess wear or deformation



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3046

Check wear down condition of mating ring. If wear down on sliding surfaces is over 0.5 mm in depth it should be reconditioned by lathe

Final Remarks of RFIC

DO through PAC firm. Spares CG supply

EA 3047

Check condition of shaft sleeve surface. If epoxy paint peeled off, repainting to be carried out. Paint Contractor supply

Final Remarks of RFIC

DO through PAC firm. Spares CG supply

EA 3048

Carry out functional check of shaft inflatable seal in association with class surveyor

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3049

Carry out CPP blade functional check and zero pitch matching with blade head, local, MCR and Bridge

Final Remarks of RFIC

DO through PAC firm. Spares CG supply

EA 3050

Check pressure control valve, pressure switch and pump set. Adjust if required

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3051

Overhaul CPP built-on lub oil pumps (Qty-02 Nos.) and Motor driven lub oil pumps (Qty- 02 Nos.). Defective parts to be renewed. Pumps to be painted as per existing paint scheme. (Material & spares: Contractor supply)

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

DIESEL ALTERNATOR, MAKE: KIRLOSKAR OIL ENGINES, MODEL: DV12SR1, CAPACITY: 500 KW, QTY: 02 NOS.

10,000 HRLY JOBS THROUGH OEM/PAC FIRM: M/S KOEL, PUNE (Spares/ kit: CG supply)

EA 3052

Carry out 10000 hrly routines of DAs (Qty-02 Nos.). Post routines DAs to be proved for satisfactory operation. Routines include following: -

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3053

Rectify fluids leakages of DAs

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3054

Change engine oil and centrifuge filter

Final Remarks of RFIC



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO through OEM/ PAC firm. Spares CG supply.

EA 3055

Clean sea water
strainer

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3056

Replace the cartridge of duplex lube oil
filter

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3057

Replace the element of dry type air
cleaner

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply

EA 3058

Replace the safety element of dry type air
cleaner

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply

EA 3059

Replace the cartridge of duplex fuel
filter

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3060

Replace the cartridge of coarse (pre-line) fuel filter.

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3061

Check rubber hose/clip of dry type air cleaner/HE piping for any cracks/looseness.

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3062

Clean fuel strainer of fuel feed
pump

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3063

Check for fastener
tightness

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3064



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Check for solenoid
operation

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3065

Tighten wiring harness and terminals (control and power
connection)

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3066

Check start stop function from local and remote
panel

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3067

Check all gauges and meters are in working condition, replace if
necessary

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3068

Check for engine safeties are in closed loop and
operational

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3069

Check the valve clearances and adjust if
required

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3070

Change joint of rocker
cover

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3071

Clean heat exchanger internally and replace gasket

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3072

Replace o-ring of heat
exchanger

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3073

Replace sea water pump
belts

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3074

Replace water pump
belts

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3075

Change the coolant

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3076

Replace fuel pipe (pre Filter to leak of
pipe)

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3077

Replace leak off
pipe

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3078

Replace fuel pipe
assembly

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3079

Clean Charge Air
Cooler

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3080

Replace high pressure fuel pipe
assembly

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3081

Replace O-ring of drain
plug

Final Remarks of RFIC

DO through OEM/ PAC firm. Spares CG supply.

EA 3082

Check and replace sump drain valve and washers



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3083

Replace all rubber hoses

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3084

Disconnect the expansion bellow. Replace the joints

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3085

Disconnect the lube oil inlet pipe to turbo charger and replace the joint

Final Remarks of RFIC

DO through PAC firm. Spares CG supply

EA 3086

Disconnect the lube oil drain pipe to turbocharger and replace the joint

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3087

Replace hose for turbo drain pipe

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3088

Replace the joint of turbo charger exhaust manifold

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3089

Remove the sealing rings and replace sealing rings of exhaust manifold

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3090

Replace the sealing washers venting pipe of cylinder head

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3091

Replace the joint of rocker supply oil pipe
banjo

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3092

Replace suction tube
joint

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3093

Replace delivery tube
joint

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3094

Replace injector

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3095

Replace the nozzle sealing
washers

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3096

Replace the cylinder head bolts

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3097

Replace all Heat Exchanger and CAC
hoses

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3098

Replace thermostat
element

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3099



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Replace the joint of oil
sump

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3100

Replace the joint of suction tube
assembly

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3101

Replace the oil spray nozzle

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3102

Replace the cylinder liner

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3103

Replace piston assembly

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3104

Replace the main
bearings

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3105

Replace the middle main
bearings

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3106

Replace Connecting rod

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3107

Replace Connecting rod large end bearings (Top)

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3108



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Replace Connecting rod large end bearings
(Bottom)

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3109

Replace camshaft bushes

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3110

Replace rocker lever bushes

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3111

Replace thrust washers for crankshaft

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3112

Replace thrust washers for intermediate
gear

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3113

Replace rocker adjusting screw & nut

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3114

Replace camshaft assembly with gear and thrust
plate

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3115

Replace cylinder head
gasket

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3116

Replace inlet and exhaust valves

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3117

Replace valve
guides

Final Remarks of RFIC



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO through PAC firm. Spares CG supply.

EA 3118

Replace inlet valve
seats

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3119

Replace exhaust valve
seats

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3120

Replace valve
seals

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3121

Replace valve
collets

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3122

Replace the valve springs inner

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3123

Replace the valve springs
outer

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3124

Replace valve spring
cup

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3125

Replace tappets

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3126

Replace Push
rods

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3127



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Replace main bearing cap
bolts

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3128

Replace balance weight
bolts

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3129

Replace flywheel bolts

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3130

Replace the lubricating oil pump
assembly

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3131

Replace the water pump
assembly

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3132

Replace the sea water pump
assembly

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3133

Replace the joint of thermostat cover

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3134

Check the gear backlash. Replace the gear assembly if backlash found more than specified

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3135

Check the camshaft end play to establish the condition of thrust plate. Replace the thrust plate if end play more than specified limit



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3136

Replace the oil seal & joint of flywheel housing

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3137

Replace the oil seal of pulley end side

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3138

Replace turbocharger

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3139

Replace sealing washer and the rubber 'o' ring relief valve assembly from the lube oil filter header

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3140

Replace the joints between the oil cooler and the filter header.

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3141

Replace the joint of the lub oil cooler cover & lube oil cooler header

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3142

Dismantle and separate the oil-cooling element from the assembly

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3143

Replace the starter ring if teeth are damaged

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3144



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Replace the joint for fuel pump

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3145

Replace joint for fuel flange

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3146

Replace fuel pump gear

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3147

Replace the joint of breather assembly

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3148

Replace gasket for crankcase breather

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3149

Replace the rubber hoses of CAC inlet and outlet pipe

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3150

Inspect the end play of connecting rod in assembled condition if no end play is found connecting rod must be checked for bend and twist

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3151

Replace set of joints

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3152



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Replace set of o-rings

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3153

Replace set of copper washers

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3154

Checking of alternator IR space heater, winding temperature and bearing condition

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3155

Calibrate fuel injection pump. Calibration certificate to be provided

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3156

Renew air starters (Qty-02 Nos.)

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3157

Replace anti vibration mountings for engine (Qty- 12 Nos.)

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EB 3158

Sea water pump of all four DAs not developing sufficient pressure view casing ring and impeller worn out. Pumps to be overhauled and impeller, casing ring, bearing and mechanical seal to be renewed. Pumps to be proved for rated output i.e.400 LPM at delivery head of 1 kg/cm². Pumps to be painted as per existing paint scheme. Material & spares: Contractor supply.

Final Remarks of RFIC

DO.

EB 3159

DA Sea water system rubber bellows (Size-65 mm, Qty-24 Nos.) deteriorated due to fair wear & tear. To be renewed as per sample.

Final Remarks of RFIC

DO.

STEERING GEAR SYSTEM, MAKE: M/S VANDER VELDEN, NETHERLAND SD; MODEL: BST110-35, QTY: 02 NOS. JOB THROUGH OEM/ PAC FIRM

EA 3160



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Carry out functional checks of rudder and zero rudder head with ASP and Bridge

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3161

Overhaul Steering gear oil pumps (Qty-02 Nos.). Defective parts to be renewed. Pumps to be proved for satisfactory operation. Pumps to be painted as per existing paint scheme. (Material & spares: Contractor supply)

Final Remarks of RFIC

DO through PAC firm. Spares CG supply.

EA 3162

Clean and repaint storage and power pack tanks (paint Contractor supply)

Final Remarks of RFIC

DO

EB 3163

16 Nos. hydraulic hoses (Make – Parker, Dia- 12.5 mm, WP-4495 psi) deteriorated view ageing/ fair wear & tear. To be renewed as per sample. Hoses: Contractor supply.

Final Remarks of RFIC

DO.

AC PLANT, MAKE: M/S HEINEN & HOPMAN, (COMPRESSOR MAKE: M/S BITZER, GERMANY, MODEL: HSK-8561-90-40 P) (CONDENSER MAKE: M/SONDA, ITALY, MODEL: M27.024.20002 P), (CHILLER MAKE: M/S ROENEST, BPHE TYPE, MODEL: KC.M.30.2.08-4M-D) CAPACITY: 56 TR, QTY: 03 NOS. JOB THROUGH OEM/ COA APPROVED COMPETENT FIRM

EA 3164

Overhaul compressors and renew all defective parts. Replace compressor oil and oil filter. Compressors to be proved for satisfactory operation.

Compressors to be painted post overhaul as per existing paint scheme. (spares: CG supply).

Final Remarks of RFIC

DO through PAC/COA approved firm Spares CG Supply. Material Contractor supply.

EA 3165

Check function of expansion valve & solenoid valve. Renew, if defective (Spares: Contractor supply).

Final Remarks of RFIC

DO through PAC/COA approved firm Spares CG Supply. Material Contractor supply.

EA 3166

Renew following gauges alongwith pressure gauge lines, purging cocks and adapters (Mat: Cu, Dia – 6 mm, Length – 6 Mtrs) and calibration certificate of gauges to be provided. All material spares and gauges Contractor supply: -

(a) Temperature gauges: -

- (i) Thermometer type: Range: 0 - 50 deg Celsius, Qty-10 Nos
- (ii) Thermometer type: Range: 0 - 120 deg Celsius, Qty-04 Nos
- (iii) Thermometer type: Range: 0-100 deg Celsius, Qty-02Nos
- (iv) Dial Type: Range: 0-60 deg Celsius, Qty-06 Nos

(b) Pressure gauges

- (i) LP gauge (4" dial type, Range: -1 to 20 Kg/cm², Qty-03 Nos.)
- (ii) HP gauge (4" dial type, Range: 0 to 30 Kg/cm², Qty-03 Nos.)
- (iii) Pumps suction gauge (4" dial type, Range: -1 to 10 Kg/cm², Qty-04 Nos
- (iv) Pumps discharge gauge (4" dial type, Range: 0 to 10 Kg/cm², Qty-04 Nos.)

Final Remarks of RFIC

DO through PAC/COA approved firm Spares CG Supply. Material Contractor supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3167

All relief valves (Qty-09 Nos., set pressure :21 Kg/cm²) to be checked and calibrated through NABL accredited lab. Calibration certificate to be provided.

Final Remarks of RFIC.

DO

EA 3168

Overhaul and pressure test following gas system valves (LP test pressure: 6 bar, HP test pressure: 19 bar). Replace Teflon/ metallic sheet (Contractor supply). Valves to be painted as per existing paint scheme: -

SI	Description	Size (mm)	Qty(nos)
(a)	Globe Valve (Suction)	100	03
(b)	Globe Valve (discharge)	80	03
(c)	Globe Valve (Receiver & Compressor bottom)	25	06
(d)	Ball Valve (System Valve)	30	12
(e)	Ball Valve (System Valve- Condenser inlet)	50	03
(f)	Ball Valve (system Valve- Oil separator)	20	06
(g)	Angle Valve	12	33
(h)	LSV	25	03

Final Remarks of RFIC.

DO. Spares & Material- as per RFIC minutes.

EA 3169

Clean oil separator, drier and liquid receiver. Renew drier core. Spares CG supply

Final Remarks of RFIC.

DO. Spares & Material- as per RFIC minutes.

EA 3170

Chemically clean 03 nos. chillers and pressure test. Test pressure: 06 Bar. Chillers to be filled till adequate water level post cleaning

Final Remarks of RFIC.

DO. Spares & Material- as per RFIC minutes.

EA 3171

Carry out chemical cleaning and pressure test (test pressure of tubes: 4 Bar, test pressure of shell : 19 bar) of 02 AC condensers and renew zinc anodes (Qty : 04, Size: 20 mm Dia x 50 mm L).

Renew all gaskets. Material including allen bolts (Qty :32 Nos.) and anodes Contractor supply.

Condensers to be painted as per existing paint scheme

Final Remarks of RFIC.

DO. Spares & Material- as per RFIC minutes.

EA 3172

Carry out pressure test and vacuum test of all three plants post overhauling and system to be proved. Test pressure, LP Side: 10 Bar, HP side: 19 Bar. Pressure testing min: 24 hours, Vacuum testing: -1.00 bar for min 24 hours and plant to be proved for satisfactory operation

Final Remarks of RFIC.

DO. Spares & Material- as per RFIC minutes.

EB 3173

Carry out fitment of new AC condenser post pressure testing in AC plant No. 3. All inway jobs i.e. removal of old condenser and re-fitment of system pipe lines. (test pressure of tubes: 4 Bar, test pressure of shell : 19 bar). Condenser : CG supply

Final Remarks of RFIC.

DO through PAC/ COA approved firm. Material Contractor supply. Zinc anodes to be installed prior fitment. Anodes Contractor supply (Qty-02 Nos, length-50mm, Dia- 25mm)



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EB 3174

Insulation lagging of Chiller system pipelines (length -80 mtrs, Dia – 125 mm) deteriorated at various places. To be renewed as per sample. Mat : Contractor supply

Final Remarks of RFIC.

DO

AC CONDENSER PUMP (FWD & AFT),MAKE: SPX FLOW TECHNOLOGY PUMPS, MODEL: CV 80-160 B3M2TL, CAPACITY: 88 M3/HR, QTY: 02 NOS.

EA 3175

Overhaul 02 nos. pumps. Replace bearings, mechanical seal and other defective parts Post overhauling, check alignment of pumps with motor and proved for rated output. Pumps to be painted post overhaul. (Material & spares: Contractor supply)

Final Remarks of RFIC.

DO spares & Material-as per RFIC minutes.

EB 3176

Renew both AC condenser pump suction gauges (-1 to 5 Kg/cm²) and discharge gauges (0-10 bar) along with gauge line and adaptor (Mat: Cu, Dia- 6 mm, Length – 2 Mtrs each, Qty- 04 Nos). Gauges, spares and material: Contractor supply. Calibration certificate of new gauges to be provided

Final Remarks of RFIC.

DO.

EB 3177

Both Condenser pumps priming unit suction and discharge line deteriorated and pin holed at different places. Line along with end connectors to be renewed as per sample. (Mat: SS, Dia- 12 mm, Length – 04 mtrs). Mat: Contractor supply

Final Remarks of RFIC.

DO

AC CHILLER PUMP (FWD&AFT), MAKE: SPX FLOW TECHNOLOGY PUMPS, MODEL: CF 65-160 B3M2, CAPACITY: 60 M3/HR, QTY: 02 NOS

EA 3178

Overhaul 02 nos. pumps. Replace bearings, mechanical seal and other defective parts. Post overhauling, check alignment of pumps with motor and proved for rated output. Pumps to be painted post overhaul. (Spares: Contractor supply)

Final Remarks of RFIC.

DO.

EB 3179

Renew both chiller pump suction pressure gauge (-1 to 5 Kg/cm²) and discharge pressure gauge (0-10 bar) along with gauge line, purging cock and adaptor (Mat: Cu, Dia -8 mm, Length – 2 Mtrs each, Qty- 04 Nos) Gauges, spares and mat: Contractor supply. Calibration certificate of new gauges to be provided.

Final Remarks of RFIC.

DO.

REF PLANT, MAKE: M/S HEINEN & HOPMAN, COMPRESSOR MAKE:M/S BITZER, GERMANY, MODEL: 4G.2Y, CONDENSER: SM 20, LIQUID RECEIVER: F152H, CAPACITY: 3.5 TR, QTY: 02 NOS.JOB THROUGH OEM/ COA APPROVED COMPETENT FIRM

EA 3180

Overhaul Ref compressors and renew all defective parts. Replace compressor oil and oil filter. Compressors to be proved for satisfactory operation. Compressors to be painted post overhaul. (Spares and Oil: CG supply)

Final Remarks of RFIC.

DO through PAC/COA approved firm. Spares CG supply. Material Contractor supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3181

Overhaul following stop valves: -

(a) Valve size: 40 mm; Qty: 02 nos

(b) Valve size: 25 mm; Qty: 02 nos

Final Remarks of RFIC.

DO. Spares & Material-as per RFIC minutes.

EA 3182

Overhaul following system valves and pressure test (LP test pressure: 2 bar, HP test pressure: 16 bar)). Renew valve glands and Teflon seats (Gland and seats Contractor supply): -

Sl.	Description	Size (mm)	Qty
(a)	Globe Valve (Suction)	40	02
(b)	Globe Valve (discharge)	35	02
(c)	Globe Valve (Receiver Inlet)	15	01
(d)	Globe valve (System valve)	15	03
(e)	Ball Valve (Condenser Outlet)	15	02
(f)	Ball Valve (Casual drier core Inlet/outlet)	10	04
(g)	Angle Valve	12	21
(h)	LSV	10	02

Final Remarks of RFIC.

DO Spares & Material- as per RFIC minutes.

EA 3183

Clean evaporator unit casing (Qty: 02 nos, cold room and cool room)

Final Remarks of RFIC.

DO through PAC/COA approved firm. Material Contractor supply

EA 3184

Chemical clean and pressure test evaporater coil (Qty: 02 nos, In cold room and cool room). Test pressure: 06 bar

Final Remarks of RFIC.

DO through PAC/COA approved firm. Material Contractor supply

EA 3185

Renew insulation of pipes, fittings, valves, ducts, casing & housing (approx area: 10 mtr²) Material: Contractor supply

Final Remarks of RFIC.

DO through PAC/COA approved firm. Material Contractor supply

EA 3186

Renew following gauges alongwith pressure gauge lines, purging cocks and adapters (Mat: Cu, Dia: 6 mm, Length: 4 Mtrs) and calibration certificate of gauges to be provided. Material and gauges Contractor supply.

(a) Temperature gauges:

(i) Thermometer type (Range: 0-100 degree Celsius, Qty-04)

(ii) Dial type, (Range: 0-60 degree Celsius, Qty-04)

(b) Pressure gauges:

(i) LP gauges (Range: -1 to 10 Kg/cm², Qty- 02 Nos)

(ii) HP pressure gauges (Range: 0-20 bar, Qty- 02 Nos)

(iii) Inlet pressure gauge (Range: -1 to 10 Kg/cm², Qty- 04 Nos)

(iv) Outlet pressure gauge (Range: 0-10 bar, Qty- 04 Nos)

Final Remarks of RFIC.

DO.

EA 3187

Clean oil separator. Renew drier core. Drier core: CG supply



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC.

DO.

EA 3188

Check function of expansion valve & solenoid valve. Renew, if defective (Spares: Contractor supply). **Final Remarks of RFIC.**

DO.

EA 3189

Carry out chemical cleaning and pressure test 02 nos Ref plant condenser and renew zinc anodes (Anodes Contractor supply, Qty-04 Nos., Size:1" Dia x 3" length, Tube test pressure: 4 Bar, shell test pressure: 16.0 Bar)

Final Remarks of RFIC.

DO.

EA 3190

Carry out pressure test and vacuum test post overhauling (Test pressure LP Side: 9 Bar, HP side: 16 Bar. Pressure testing min: 24 hours, vacuum testing: -1.00 bar for min 24 hours and plant to be proved for satisfactory operation). Condensers to be painted as per existing paint scheme

Final Remarks of RFIC.

DO.

REF CONDENSER PUMP (FWD & AFT), MAKE: SPX FLOW TECHNOLOGY, MODEL: KGEC12-5, CAPACITY: 06 M³/HR, QTY: 02 NOS

EA 3191

Overhaul 02 nos. pumps. Replace bearings, mechanical seal and other defective parts. Post overhauling, check alignment of pumps with motor and proved for rated output. Pumps to be painted post overhaul. (Material & Spares: Contractor supply)

Final Remarks of RFIC.

DO.

HP AIR COMPRESSOR, MAKE: M/S SPERRE, MODEL: 105A, QTY: 03 NOS. JOBTROUGH OEM/ PAC FIRM

EA 3192

Overhaul compressors and renew all defective parts. Replace compressor oil and oil filter (oil: CG supply). Compressors to be proved for satisfactory operation. Carry out following: -

1. Renew HP & LP valves
2. Functional tests of safety valves, renew if defective
3. Check all pipe connections (compressor running) and coupling insert, renew if defective
4. Remove and clean compressor cooler tubes outside and inside. Replace cooler, if found clogged due to carbon deposit inside
5. Replace NRV, drain valve and unloading valve
6. Replace flexi tube ventilator hose and elbows
7. Renew mountings (mountings: Contractor supply)

Final Remarks of RFIC.

DO spares CG supply. Material Contractor supply.

EMERGENCY AIR COMPRESSOR ENGINE, MAKE: M/S LOMBARDINI, MODEL- 9L0625/2. JOB THROUGH OEM/ PAC FIRM

EA 3193

Carry out top overhaul of engine and renew defective parts. Inway jobs include checking of charging alternator and starting motor and renewal of defective fuel pipes. Material& spares: Contractor supply

Final Remarks of RFIC.

DO spares CG supply. Material Contractor supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EB 3194

Exhaust leakage observed from exhaust manifold. Manifold gasket and lagging (Area- 5 m²) to be renewed. Material: Contractor supply

Final Remarks of RFIC.

DO.

**FUEL PURIFIER, MAKE: M/S GEA WESTFALIA, MODEL: CP20SE 10 DO, QTY: 02 NOS.
JOB THROUGH PAC FIRM M/S GEA WESTFALIA SEPARATOR (I) PVT LTD, GURGAON
EA 3195**

Carry out overhauling of Fuel oil purifiers. Post overhauling, Fuel oil purifiers to be proved for rated output. Disassemble bowl and centrifugal pump. Clean for corrosion and erosion of holes, nozzles and chambers of hydraulic system. Cones of bowl and spindle must be clean & dry when fitting. Undertake following (Spares: CG supply): -

1. Replace gasket and retainer ring.
2. Change oil and clean drive chamber thoroughly. Oil CG supply
3. Clean strainer and pipe in operating liquid feed system of self-cleaning separator.
4. Clean holes in non-return valve in water feed and rinse with water. Check functionality of non-return valve.
5. Clean water detector.
6. Check pressure gauges for damage, display and functionality.
7. Clean sight glass in frame for observing of drive belt.
8. Check hoses and hose pipes and replace if necessary.
9. Clean filter in suction line of product feed pump.
10. Replace drive belt, spindle roller bearing and vibration observer.
11. Check grooved ball bearing of centrifugal clutch, thickness of clutch shoes and replace if necessary.
12. Check bowl height and spindle speed.
13. Replace SV mounts.
14. Post overhaul, both FOP to be painted as per existing paint scheme.

Final Remarks of RFIC.

DO through PAC firm. Spares CG supply. Material Contractor supply

**FIN STABILIZER, MAKE: M/S LARSEN & TOUBRO, MODEL: NON RETRACTABLE/ L&THED
(+/- 28 DEGREE), QTY: 02 NOS. JOB THROUGH OEM/ PAC FIRM**

EA 3196

Overhaul, clean and pressure test oil cooler. Test pressure: 08 bar

Final Remarks of RFIC.

DO through OEM. Spares CG supply. Material- Contractor supply.

EA 3197

Check inflatable seal condition by inflating to a pressure of 1.5 bar above external hydrostatic pressure. Post checks, Deflate inflatable seal fully. Replace seal, if any cracks, blisters are observed.

Final

Remarks of RFIC.

DO through OEM. Spares CG supply. Material- Contractor supply.

EA 3198

Change hydraulic filter element

Final Remarks of RFIC.

DO through OEM. Spares CG supply. Material- Contractor supply.

EA 3199

Renew gland packing (Mat: Contractor supply)

Final Remarks of RFIC.

DO through OEM. Spares CG supply. Material- Contractor supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3200

Check vibration mounts, replace if required (Mat-Contractor supply)

Final Remarks of RFIC.

DO through OEM. Spares CG supply. Material- Contractor supply.

EA 3201

Overhaul emergency hand pump.

Final Remarks of RFIC.

DO through OEM. Spares CG supply. Material- Contractor supply.

EA 3202

Remove and overhaul flexible coupling

Final Remarks of RFIC.

DO through OEM. Spares CG supply. Material- Contractor supply.

EA 3203

Renew all flexible hydraulic hoses (Type – flame resistant MSHA2G-11C), actuators seals and packings.

Mat & spares Contractor supply. Details of flexible hoses as appended below: -

- (a) Size: 25.4 mm, WP-5000 psi, Mat: Rubber, Qty: 04 Nos
- (b) Size: 31.50 mm, WP-5000 psi, Mat: Rubber, Qty: 04 Nos
- (c) Size: 6.3 mm, WP-5800 psi, Mat: Rubber, Qty: 04 Nos
- (d) Size: 19 mm, WP-5000 psi, Mat: Rubber, Qty: 02 Nos
- (e) Size: 25 mm, WP-5000 psi, Mat: Rubber, Qty: 06 Nos

Final Remarks of RFIC.

DO.

RO PLANT, MAKE: M/S TECNICOMAR, MODEL: SAILOR CS 3/44, CAPACITY: 20 TPH, QTY: 02 NOS. JOB THROUGH OEM/ PAC FIRM

EA 3204

Overhaul of High Pressure pump. Material: Contractor supply. Oil & spares: CG supply

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3205

Carry out Cleaning of conductivity electrodes of Salinity Sensor

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3206

Calibrate salinity meter using a conductivity meter with a scale in micro siemens /cm

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3207

Renew DT Modules (Qty 03 Nos for each plant, Modules Contractor supply) Preservation and de-preservation of DT modules to be carried out as applicable

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3208

Overhaul pre filter (booster) pumps. Spares: CG supply, Material: Contractor supply

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3209



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Carry out functional checks and calibrate automatic pressure Regulator Valve (Motorized valve) and low pressure sensor, HP pressure sensor and fresh water pressure switch. Calibration certificates to be provided.

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3210

Replace following flexible rubber hoses: -

(i) LP (16 nos, 1.5 mtrs length, dia: 20 mm)

(ii) HP (02 nos, 0.5 mtr length, dia:15 mm)

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material-Contractor supply.

EA 3211

Check performance of UV system and replace active carbon filter

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3212

Check control equipment, Pressure switches, Solenoid valves, flow and level switches and PLC for operation

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3213

DT module fittings and connectors to be renewed as per sample.

Mat: Contractor supply

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3214

Check HP relief valve operation/ settings. Reset or replace valve if required

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

EA 3215

Renew HP pump anti vibration mounts. Mounts Contractor supply

Final Remarks of RFIC.

DO through PAC/Competent firm. Spares CG supply. Material- Contractor supply.

WHR PLANT, MAKE: M/S SONDEX, MODEL: SFD 6, CAPACITY: 10 TPD, QTY: 02 NOS. JOB THROUGH OEM/ PAC FIRM

EA 3216

Chemically clean condenser cooling tubes, opening of plate pack and heater tubes.

Final Remarks of RFIC.

DO through Authorised/ Competent firm. Spares CG supply. Material - Contractor supply.

EA 3217

Clean demister, renew if required.

Final Remarks of RFIC.

DO through Authorised/ Competent firm. Spares CG supply. Material - Contractor supply.

EA 3218

Renew following gauges and calibration certificates to be provided: -

(a) Pressure gauges: -

(i) Pressure gauge (Range 0 to 7 bar, Qty- 08 Nos., Size-4" dial type)

(ii) Pressure gauge (Range 0 to 7 bar, Qty-04 Nos., Size-2" dial type)

(ii) Vacuum gauge (Range: -1 to 1 bar, Qty-02 Nos.)



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(b) Temperature gauges: -

(i) Range: 0 to 100 deg C, Qty-02 Nos., Size- 4" Dial

(ii) Range: 0 to 100 deg C, Qty- 04 Nos., Size- 2" Dial

(iii) Range: 0 to 100 deg C, Qty- 04 Nos., Thermometer type

Final Remarks of RFIC.

DO through Authorised/ Competent firm. Spares CG supply. Material - Contractor supply.

EA 3219

Overhaul distillate pump and sea water pump

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3220

Carry out functional checks and calibrate shell relief valve

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply

EA 3221

Replace orifice plates in sea water and fresh water system lines. Orifice

Dia: 20 mm, material: SS

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3222

Chemically clean and pressure test fresh water and sea water system pipelines as below:

(i) Sea water line; Material: Cu-Ni, Dia: 50 mm, Length: 30 mtr

(ii) Fresh water line; Material: SS, Dia: 25 mm, Length: 10 mtr

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3223

Carry out Ultrasonic cleaning of UV sterilizers

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3224

Carry out De-scaling of plant shell and painting as per approved paint scheme

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material-Contractor supply.

EA 3225

Overhaul and pressure test of all SW system valves (Size -80 mm,
Type- SDNR, Qty-04 Nos.)

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3226

Calibrate Salinometer and water flow rotometer through NABL accredited lab and calibration certificate to be provided

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3227

Overhaul and prove NO/NC solenoid valve

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3228



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Carry out functional/operational checks and prove system for designed output

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

**OILY BILGE WATER SEPARATOR, MAKE: POSEIDON EVO GREECE, MODEL: PE 1.0 M³/H,
CAPACITY: 1 M³/HR, QTY- 02 NOS. JOB THROUGH OEM/ PAC FIRM
EA 3229**

Drain both separator stages and remove top cover.

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3230

Replaced first stage filter cartridge

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3231

Clean sludge sediment of two stages using warm water

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3232

Check inside coating. Paint it with epoxy paint if paint has peeled off

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3233

Replace anodes

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3234

Change gaskets and joints

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3235

Check correct operation of relief valve and reset at specialized pressure if necessary

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3236

Inspect heater

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3237

Clean pneumatic system valve

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3238

Check for correct operation of oil monitoring device

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3239

Replace second stage filter cartridge

Final Remarks of RFIC.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3240

Replace gearbox oil and overhaul pump

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3241

Recalibrate the oil monitoring device

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

EA 3242

Post overhauling, OBWS to be proved for satisfactory operation and rated output.

Final Remarks of RFIC.

Do though Authorised/ competent firm. Spares CG supply. Material- Contractor supply.

INCINERATOR, MAKE: M/S DETEGASA, MODEL: DELTA/ IRLA-18E, QTY: 01 NO.

EA 3243

Check control system & unit alarms following test function & security of unit

Final Remarks of RFIC.

DO material & spares Contractor supply.

EA 3244

Check all safety devices, calibrate and adjust if necessary

Final Remarks of RFIC.

DO material & spares Contractor supply.

EA 3245

Check all valves to avoid spills and losses

Final Remarks of RFIC.

DO material & spares Contractor supply.

EA 3246

Replace all sleeves and hoses of diesel burner.

Final Remarks of RFIC.

DO material & spares Contractor supply.

EA 3247

Replace nozzle for D.O. burner.

Final Remarks of RFIC.

DO material & spares Contractor supply.

EA 3248

Overhaul fuel oil pump and sludge pump, renew defective parts.

Final Remarks of RFIC.

DO material & spares Contractor supply.

EA 3249

Post overhauling, Incinerator to be proved for satisfactory operation.

Final Remarks of RFIC.

DO material & spares Contractor supply.

FM 200 FIRE FIGHTING SYSTEM. MAKE: M/S TYCO, MODEL: 303. 205. 021 (FM BOTTLES), NOS. FITTED: 09 CYLINDER + 01 CYLINDER, LOCATION: FM 200 COMPARTMENT AND AVCAT COMPARTMENT. JOB THROUGH PAC FIRM: M/S TYCO FIRE AND SECURITY (I), PVT LTD, THANE

EA 3250



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Check containers are safe from mechanical damage, corrosion or unauthorized interference

Final Remarks of RFIC.

DO through PAC firm. Refilling if any against AWRF.

EA 3251

Check pneumatic actuation tubing is firmly fixed and all connection are tight

Final Remarks of RFIC.

DO through PAC firm. Refilling if any against AWRF.

EA 3252

Blow through system pipelines with air and check nozzles of respective compartments for blockages

Final Remarks of RFIC.

DO through PAC firm. Refilling if any against AWRF.

EA 3253

Check FM-200 & nitrogen cylinders' weight and pressure. Refill if required. Material & Gas:
Contractor supply

Final Remarks of RFIC.

DO through PAC firm. Refilling if any against AWRF.

EA 3254

All pressure gauges to be calibrated through NABL accredited lab. Calibration certificate to be provided.

Final Remarks of RFIC.

DO through PAC firm. Refilling if any against AWRF.

**FOT PUMPS NO.1& NO.2, MAKE: DESMI, MODEL: GEAR PUMP/HD 101EFM-1U3B2,
CAPACITY: 21 M³/HR, QTY: 02 NOS.**

EA 3255

Overhaul pumps and renew all defective parts including coupling Pads. Carry out alignment of pumps and motor. Pumps to be painted as per existing paint scheme (Paint Contractor supply) and proved for rated output (spares & material: Contractor supply).

Final Remarks of RFIC.

Do through OEM/COA approved firm. Spares CG Supply. Material Contractor Supply.

EA 3256

Calibrate pressure relief valve operation. Calibration certificate to be provided

Final Remarks of RFIC.

DO

**AVCAT TRANSFER AND SERVICE PUMP, MAKE: ROYSONS ENGINEERS, MODEL: GEAR
PUMP/RGB-6-MF, CAPACITY: 15 M³/HR, QTY: 02 NOS**

EA 3257

Overhaul pumps & renew all defective parts including coupling Pads. Carry out alignment of pumps and motor. Pumps to be proved for rated output. Pumps to be painted post overhauling. (spares & material: Contractor supply)

Final Remarks of RFIC.

DO spares as per RFIC minutes.

**FIRE & SPRINKLING PUMP (FWD& AFT), MAKE: M/S DESMI, MODEL: NSL100-265/D14;
CAPACITY: 80 M³/HR, QTY: 02 NOS**

EA 3258

Overhaul pumps and renew all defective parts including coupling Pads. Carry out alignment of pumps and motor. Pumps to be proved for rated output. Pumps to be painted post overhauling (Paint Contractor supply). (Mat& spares: Contractor supply)

Final Remarks of RFIC.

DO through OEM/COA approved firm. Spares CG supply. Material Contractor supply



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EB 3259

Renew both fire and GS pump suction gauge (-1 to 5 Kg/cm²) and discharge gauges (0-10 bar) along with gauge line and adaptor (Mat: Cu, Dia: 6mm, Length: 2 Mtrs each). Calibration certificate of new gauges to be provided

Final Remarks of RFIC.

DO

BILGE AND BALLAST PUMP (FWD& AFT), MAKE: M/S DESMI, MODEL: NSL100-265/D14, CAPACITY: 80 M³/HR, QTY: 02 NOS

EA 3260

Overhaul pumps and renew all defective parts including coupling Pads (mat: Contractor supply). Carry out alignment of pumps and motor. Pumps to be proved for rated output. Pumps to be painted post overhauling (Paint Contractor supply).

Final Remarks of RFIC.

DO through OEM/COA approved firm. spares CG supply. Material Contractor supply.

EB 3261

Renew both bilge and ballast pump suction pressure gauge (-1 to 5 Kg/cm²) and discharge pressure gauges (0-10 bar) along with gauge line, purging cocks and adaptor (Mat: Cu, Dia: 6mm, Length: 2 Mtrs each, Qty: 04 Nos.). Calibration certificate for new gauges to be provided

Final Remarks of RFIC.

DO. Gauges Contractor supply.

BILGE PUMP (FWD & AFT), MAKE: M/S DESMI, MODEL: NSL100-330/D13, CAPACITY: 60 M³/HR, QTY: 02 NOS

EA 3262

Overhaul pumps and renew all defective parts including coupling Pads (mat& spares: Contractor supply). Carry out alignment of pumps and motor. Pumps to be proved for rated output. Pumps to be painted post overhauling (Paint Contractor supply).

Final Remarks of RFIC.

DO through OEM/ COA approved firm. Spares CG supply. Material Contractor supply.

EB 3263

Renew both bilge pump suction pressure gauge (-1 to 5 Kg/cm²) and discharge pressure gauges (0-10 bar) along with gauge line, purging cocks and adaptor (Mat: Cu, Dia: 6mm, Length: 2 Mtrs each, Qty: 04 Nos.). Calibration certificate of new gauges to be provided

Final Remarks of RFIC.

DO. Gauges Contractor supply

FRESH WATER PUMP NO.1 & 2, MAKE: M/S DESMI, MODEL: S80-70-220N/D07, CAPACITY: 12 M³/HR, QTY: 02 NOS

EA 3264

Overhaul pumps and renew all defective parts including coupling Pads (mat& spares: Contractor supply). Carry out alignment of pumps and motor. Pumps to be proved for rated output. Pumps to be painted post overhauling (Paint Contractor supply).

Final Remarks of RFIC.

DO. Spares as per RFIC Contractor supply

EB 3265

Renew both fresh water pump suction pressure gauge (-1 to 5 Kg/cm²) and discharge pressure gauges (0-10 bar) along with gauge line, purging cocks and adaptor (Mat -Cu, Dia -6 mm, Length - 2 Mtrs each, Qty- 04 nos.). Calibration certificate of new gauges to be provided

Final Remarks of RFIC.

DO. Gauges and material Contractor supply.

HOT WATER PUMP, MAKE: M/S DESMI, MODEL: S50-32-135N/D07, CAPACITY: 2M³/HR, QTY: 01 NO



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3266

Overhaul pump and renew all defective parts including coupling bushes (mat: Contractor supply). Carry out alignment of pumps and motor. Pumps to be proved for rated output. Pumps to be painted post overhauling (Paint Contractor supply).

Final Remarks of RFIC.

DO. Spares Contractor supply

PORTABLE NON-SUBMERSIBLE PUMP ENGINE DRIVEN, MAKE:M/S MODY PUMP, ENGINE: M/S YANMAR, MODEL: DC8Y- DE, CAPACITY: 37 TPH. QTY: 01 NO

EA 3267

Overhaul pump and renew all defective parts including coupling Pads (mat& spares: Contractor supply). Carry out alignment of pump and motor. Pump to be proved for rated output. Pump to be painted post overhauling (Paint Contractor supply).

Final Remarks of RFIC.

DO.

EA 3268

Overhaul engine and prove for satisfactory operation. Mat& spares: Contractor supply.

Final Remarks of RFIC.

DO. Top overhaul only.

SUBMERSIBLE PUMP, MAKE: M/S MODY SUBMERSIBLE PUMPS, MODEL: M504 N(M), CAPACITY: 40 TPH, QTY: 02 NOS

EA 3271

Overhaul pumps and motor and prove for rated output. Examine internal wear. Check running clearances. Replace worn out parts (scope of jobs includes varnishing/oven baking). Paint pump casing internally and externally including motor using full coat of rust proof paint. Mat& spares: Contractor supply.

Final Remarks of RFIC.

DO

SUBMERSIBLE PUMP, MAKE: M/S MODY SUBMERSIBLE PUMPS, MODEL: M204NT, CAPACITY: 20 TPH, QTY: 02 NOS

EA 3272

Overhaul pumps and motor and prove for rated output. Examine internal wear. Check running clearances. Replace worn out parts (scope of jobs includes varnishing/oven baking). Paint pump casing internally and externally including motor using full coat of rust proof paint. Bearings of pump and motor, Mechanical Seals, Coupling Pads and mat: Contractor supply

Final Remarks of RFIC.

DO

EMERGENCY FIRE PUMP, MAKE: M/S DESMI, MODEL: S80-70-220N, CAPACITY: 41 M³/HR AND ENGINE (MAKE: M/S HATZ DIESEL MODEL: 2G40H)

EA 3273

Overhaul engine and renew defective parts and prove for satisfactory operation. Mat & spares: Contractor supply. Paint engine externally with heat resistant paint. Carry out alignment of pump with engine. **Final Remarks of RFIC.**

DO

EA 3274

Overhaul pump and renew defective parts and prove for satisfactory operation. Paint pump casing internally and externally. Bearings, Seals, Coupling Pads and mat: Contractor supply.

Final Remarks of RFIC.

DO

EB 3275

Exhaust lagging and GI cladding deteriorated and worn out at various places. Lagging along with GI cladding to be renewed as per sample (approx Area: 25 Sq Mtrs)



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC.

DO

DIVING AIR COMPRESSOR, MAKE: M/S AEROTECNICA COLTRI, CAPACITY: 18 M³/HR, 330 BAR, QTY: 01 NO. JOB THROUGH OEM/PAC FIRM

EA 3276

Overhaul compressor. Function and performance of all valves to be proved post overhaul. Spares & Mat: Contractor supply

Final Remarks of RFIC.

DO through PAC/ Authorised firm

EA 3277

Change 1st and 2nd stage valves and 3rd stage segment. Change HP flexible hoses

Final Remarks of RFIC.

DO through PAC/ Authorised firm

EA 3278

Check pumping unit for satisfactory operation.

Final Remarks of RFIC.

DO through PAC/ Authorised firm

EA 3279

Change condensate discharge valve

Final Remarks of RFIC.

DO through PAC/ Authorised firm

EA 3280

Change 1st and 2nd stage safety valves

Final Remarks of RFIC.

DO through PAC/ Authorised firm

EA 3281

Compressor is to be painted with heat resistant paint. Clean and pressure test finned coolers. Check alignment of compressor with engine.

Final Remarks of RFIC.

DO through PAC/ Authorised firm

EA 3282

Air quality to be analyzed through approved lab and test certificate for air quality to be provided through approved labs.

Final Remarks of RFIC.

DO through PAC/ Authorised firm

EA 3283

Renew 02 nos high pressure charging hose with adaptor.

Final Remarks of RFIC.

DO through PAC/ Authorised firm

DIVING AIR COMPRESSOR ENGINE, MAKE: M/S YANMAR, MODEL: MCH 16/L 100/MCH6/HONDA, QTY: 01 NO. JOB THROUGH OEM/PAC FIRM

EA 3284

Overhaul engine and renew defective parts. Engine to be proved for satisfactory operation. Spares & Mat: Contractor supply

Final Remarks of RFIC.

DO. through PAC/ Authorised firm. Top overhaul only

EA 3285



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Replace fuel hoses (Hoses Contractor supply).

Final Remarks of RFIC.

DO.

**EXTERNAL FI-FI PUMP AND FIRE MONITOR, MAKE: M/S FFS, MODEL: FFS
1200/300LB&SFX 250X350 HD, QTY: 02 NOS**

EA 3286

Overhaul electrical operation mechanism of suction gate valves (02 nos, butterfly, 300 mm).

Overhaul electrical operating mechanism of discharge valve (02 nos, butterfly, 250 mm).

Mat& spares: Contractor supply. {DL serial EA 3017 (e)& (p) also refers}.

Final Remarks of RFIC.

DO through PAC /COA approved firm.

EA 3287

Check hydraulic pack of fire monitor for functioning & leakage of oil and overhaul if required.

Final Remarks of RFIC.

DO through PAC / COA Authorised firm

EB 3288

Sea water leakage observed from both Fi-Fi pump mechanical seal. Both Pumps to be overhauled.

Mechanical seals of both pumps and other defective parts to be renewed. Post overhaul, paint the

pumps and carry out alignment of both Fi-Fi pumps with gearbox. Pumps to be proved for rated

output. Material & spares: Contractor supply

Final Remarks of RFIC.

DO through PAC /COA approved firm.

**FRESH WATER HYDROPHORE TANK, MAKE: DENKIN ENGG, MODEL: DECPL-HYDRO,
CAPACITY: 1000 LTRS**

EA 3289

Clean Hydrophore tank internally, pressure test (test pressure: 6 bar) and painted as per CG

approved paint scheme. Use new packaging, gasket and washers while refitting apparatus plate and

pipe connections (mat: Contractor supply).

Final Remarks of RFIC.

DO.

EA 3290

Calibrate pressure relief valve, pressure gauge and cut-in / cut-off pressure switch. Calibration

certificates to be provided.

Final Remarks of RFIC.

DO.

EA 3291

Renew Hydrophore tank drain valve (Size-25 NB) and level gauge.

Final Remarks of RFIC.

DO.

EA 3292

Fill water, ensure all parts are water tight and leak proof.

Final Remarks of RFIC.

DO.

**HOT WATER CALORIFIER, MAKE: DENKIN INDIA, MODEL: DECPL-HWCAL-500L,
CAPACITY: 500 LTRS**

EA 3293

Clean Hot Water tank internally, pressure test (test pressure: 6 bar) and paint as per existing paint

scheme. Use new packaging, gasket and washers while refitting apparatus plate, pipe connections.

Mat: Contractor supply

Final Remarks of RFIC.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO repairs if any against AWRF.

EA 3294

Calibrate pressure relief valve and pressure gauge and cut-in / cut-off pressure switch. Calibration certificates to be provided.

Final Remarks of RFIC.

DO repairs if any against AWRF.

EA 3295

Renew Hot Water tank drain valve and return valve (type: ball, size 25 NB)

Final Remarks of RFIC.

DO repairs if any against AWRF.

AVCAT SYSTEM: AVCAT FILTER WATER ABSORBER (MAKE: M/S PECOFACET, MODEL: VFG-100-5-220) &AVCAT FILTER WATER SEPARATOR (MAKE: M/S PECOFACET, MODEL: HCS-222111)

EA 3296

Carryout pressure test of AVCAT fueling hose. Pressure testing certificate to be provided in association with class surveyor. Test pressure: 450 Psi

Final Remarks of RFIC.

DO

EA 3297

AVCAT service tank (capacity: 2.3 KL) to be emptied, cleaned and surveyed under supervision of class surveyor. Open manhole covers, ventilate tank for 48 hours to make compartment gas free. Obtain gas free certificate as applicable. Carry out internal and external tank painting (Paint Contractor supply)

Final Remarks of RFIC.

DO

EA 3298

Following system pressure gauges to be Calibrated through NABL accredited lab. Calibration certificate of authorized agency to be provided.

(a) Pressure gauge (Make: Atlas), Range: 0-7 kg/cm², Qty: 02 Nos.

(b) Pressure Compound gauge (Make: Atlas), Range: -1 to 7 kg/ cm², Qty: 2 nos.

(c) AVCAT flow meter (Make: Atlas), (Range 55 to 550 LPM) Qty: 01 No.

Final Remarks of RFIC.

DO. Spares Contractor supply.

LOCAL WATER MIST SYSTEM, MAKE: M/S TYCO. MODEL/ TYPE: VF 10-12. JOB THROUGH PAC FIRM M/S TYCO FIRE AND SECURITY (I), PVT LTD

EA 3300

Overhaul pump and renew defective parts. Post overhaul, carry out alignment of pump with motor. Pump to be painted and proved for rated output.

Final Remarks of RFIC.

DO through PAC firm. Spares Contractor supply

EA 3301

Overhaul following system valves

(a) Ball valve; size: 32 NB, Qty: 02 Nos.

(b) Ball valve; size: 15 NB, Qty: 02 Nos.

(c) Ball valve; Size: 25 NB, Qty: 01 No.

Final Remarks of RFIC.

DO through PAC firm. Spares Contractor supply

EA 3302

Renew pressure gauges and pressure switches to be calibrated and calibration certificate to be provided



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (a) Suction gauge : -1 to 10 bar (Qty-01 No.)
- (b) Discharge gauge : 0 to 25 bar (Qty-01 No.)
- (c) Pressure switches (Qty:07 Nos)

Final Remarks of RFIC.

DO through PAC firm. Spares Contractor supply

EA 3303

Blow through system pipes with hot air and check nozzles of respective compartments for blockage DO through PAC firm. Spares Contractor supply

Final Remarks of RFIC.

DO through PAC firm. Spares Contractor supply

EA 3304

Carry out functional checks of system, check level switch operation and operation of alarm device and prove system for satisfactory operation.

Final Remarks of RFIC.

DO through PAC firm. Spares Contractor supply

EB 3305

02 Nos. solenoid valves (Size- 20 mm & 25 mm of Local Water Mist System not functioning. To be overhauled and proved for satisfactory operation.

Final Remarks of RFIC.

DO through PAC firm. Spares Contractor supply

WET CHEMICAL SYSTEM, MAKE: M/S TYCO. MODEL/ TYPE: VF 10-12. JOB THROUGH PAC FIRM M/S TYCO FIRE AND SECURITY (I), PVT LTD

EA 3306

Check CO₂ cartridge: -

- (a) Remove CO₂ cartridge from discharge engagement assembly
- (b) Check CO₂ cartridge for seal intact
- (c) Check any physical damage to CO₂ cartridge seal and cylinder shell

Check fixing arrangement on assembly working properly in CO₂ cartridge removed condition.

Reinstalled CO₂ cartridge post carried out all checks and discharge engagement assembly keep charged /ready for operation.

Final Remarks of RFIC.

DO through PAC firm.

EA 3307

Check discharge Mechanical assembly: -

- (a) Check spring handle for free operation
- (b) Check recharging handle fix properly
- (c) Check working of limit switches fitted on discharge mechanism assembly

Check fitment of pneumatic rubber hoses going to R 102 wet chemical cylinder and condition of all hoses, change if required

Final Remarks of RFIC.

DO through PAC firm.

EA 3308

Check R 102 tanks: -

- (a) Remove R 102 tank from discharge pipe
- (b) Open cylinder valves
- (c) Check R 102 wet chemical liquid is in full condition
- (d) Check safety relief valve rust free and physically in good condition
- (e) Refit cylinder valves
- (f) Refit R 102 cylinders to discharge Pipe line

Final Remarks of RFIC.

DO through PAC firm.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EA 3309

Check R 102 cabinets: -

- (a) Check rust free and is in good condition
- (b) Check cables and pipe lines for properly fixed and is in good condition

Final Remarks of RFIC.

DO through PAC firm.

EA 3310

Check nozzles: -

- (a) Remove nozzles from pipe lines
- (b) Blow air through pipe lines once nozzles removed
- (c) Check all pipe lines
- (d) Clean nozzles with soap water
- (e) Replace nozzle rubber caps
- (f) Check nozzles for any damages
- (g) Refit all nozzles, replace if any required

Final Remarks of RFIC.

DO through PAC firm.

EA 3311

Check automatic release rope: -

- (a) Check rope for good condition
- (b) Check rope for proper tension
- (c) Check fusible heat links for good proper operation
- (d) Once all checks completed, refit all back
- (e) Make sure system charged and ready for operation for automatic and manual operation.

Final Remarks of RFIC.

DO through PAC firm.

GEMINI OBMS, MAKE: M/S MERCURY, USA, MODEL: ME40MLHGA, CAPACITY: 40 TPH, QTY :03 Nos. JOB THROUGH OEM/ PAC/ AUTHORISED FIRM

EA 3312

Overhaul OBMs and renew defective parts. OBMs to be proved for satisfactory operation. Carry out following: -

1. Check engine timing set up.
2. Lubricate splines on drive shaft and propeller shaft
3. Replace water pump impeller
4. Overhaul carburetor and replace drain plugs and gaskets
5. Replace spark plugs
6. Replace engine corrosion control anodes
7. Replace fuel filter
8. Replace all rubber item and fuel hoses
9. Check tightness of all fasteners
10. Replace emergency shut off switch
11. Renew throttle and gear shift cable
12. Inspect carbon fiber reeds, wire harness connectors

Final Remarks of RFIC.

DO through PAC/Authorised firm. Spares and material Contractor Supply.

RHIB ENGINES, MAKE: MERCURY DIESEL, MODEL: 4.2 LV8370, QTY: 02 NOS, JOB THROUGH OEM/ PAC/ AUTHORISED FIRM

EA 3313

Clean intercooler core and in-built fuel tank

Final Remarks of RFIC.

DO through PAC/Authorised firm. Spares and material Contractor Supply.

EA 3314

Clean heat exchanger tubes bundle



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC.

DO through PAC/Authorised firm. Spares and material Contractor Supply.

EA 3315

Replace coolant drain plug (Drain plug Contractor supply)

Final Remarks of RFIC.

DO through PAC/Authorised firm. Spares and material Contractor Supply.

EA 3316

Replace fuel injection pump drive belt

Final Remarks of RFIC.

DO through PAC/Authorised firm. Spares and material Contractor Supply.

EB 3317

Bilge hand pump not functioning view diaphragm ruptured. Hand pump to be overhauled and diaphragm to be renewed. Pump to be proved for rated output.

Final Remarks of RFIC.

DO. Spares Contractor Supply.

AIR DRYER, MAKE: M/S SPREE, MODEL: DC 0150 AB, QTY: 01. JOB THROUGH OEM/ PAC/ AUTHORISED FIRM

EA 3318

Replace service unit of condensate draining system and filter cartridge. Reset timer of filter maintenance

Final Remarks of RFIC.

DO. Spares & Material Contractor Supply.

EA 3319

Carry out leak test of CA- Dryers, if refrigerant quantity observed 2 % less than total quantity, recharge as required

Final Remarks of RFIC

DO. Spares & Material Contractor Supply.

AIR REDUCERS

EA 3320

Following air reducers to be overhauled and proved for satisfactory operation. Mat: Contractor supply:

(a) Main Engine Starting System: 30 to 16 bar, Qty: 02 nos

(b) Domestic air system : 30 to 07 bar, Qty: 02 nos

Final Remarks of RFIC

DO. Material Contractor supply.

AIR BOTTLES, MODEL: TH301000 F (1000 LTRS): 02 NOS AND TH300500F (500 LTRS): 01 NOS, QTY: 02+01

EA 3321

Carryout internal cleaning and pressure testing of HP air bottles. Bottles to be painted post inspection. (Paint Contractor supply).

Final Remarks of RFIC

DO. internal cleaning & External painting Undertake joint inspection with class surveyor.

EA 3322

Overhaul and pressure test of following air valves of air bottles

(Test pressure- 45 bar): -

(a) 1000 Ltrs: -

(i) Filling valve, Type: SDNR, Size: 40 mm, Qty: 02 nos

(ii) Discharge Valve, Type: Ball valve, Size: 40 mm, Qty: 02 nos

(iii) Purging Cock valve, Type: Ball valve, Size: 0.5 inch, Qty: 02 nos

(b) 500 Ltrs: -



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (i) Filling valve, Type: SDNR, Size: 40 mm, Qty: 01 no
(ii) Discharge valve, Type: Cock valve, Size-25mm, Qty:01 no
(iii) Drain valve, Type: Cock valve, Size:15 mm, Qty: 01 no
(iv) Discharge Line reducer valve, Type: - Cock valve, Size: - 15mm, Qty-05nos
Post pressure testing, valves to be painted and refitted along with new joints/gaskets and SS fasteners. Mat: Contractor supply.

Final Remarks of RFIC.

DO.

SYSTEM VALVES

SEA WATER SYSTEM VALVES

EA 3323

Following valves of sea water system to be overhauled and pressure tested up to 06 Kg/cm². Post pressure testing, valves to be painted with suitable color code and refitted along with new joints/gaskets and SS fasteners. Mat: Contractor supply. Jobs include renewal of butterfly valve flap:
-

Ser. Description	Size mm	Type	Qty nos
(a) Gear box stand by pump	80	SDNR	02
(b) Gear box Inbuilt pump	80	SDNR	02
(c) WHR shell inlet	55	SDNR	02
(d) DA sea water cooling system	65	Butterfly	04
(e) Main Engine sea water system valve	200	Butterfly	04

Final Remarks of RFIC.

DO 25% only.

EB 3324

Following sea water system valves body, seat and lid excessively corroded rendering them irreparable. To be renewed as per sample (Mat- GM).

Ser. Description	Size mm	Type	Qty nos
(a) Emergency cooling Gear Box	80 mm	SDNR	02
(b) RO plant emergency supply valve	40 mm	SDNR	01
(c) Ref plant Emergency cooling valve	40 mm	SDNR	01
(d) Fwd AMR eductor inlet valve	100 mm	Butterfly	01
(e) Pre wetting system valves	50	Butterfly	02
(f) AC emergency cooling valve	80	SDNR	01

Final Remarks of RFIC.

DO

FRESH WATER SYSTEM VALVES

EA 3325

Following valves of fresh water system to be overhauled and pressure tested up to 06 Kg/cm². Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) Tanks Filling and suction valve	65	Butterfly	06
(b) Hydrophore tank	40	SDNR	02
(c) Fresh water pump suction	40	Ball	02
(d) Fresh water pump discharge	40	SDNR	02
(e) Fresh water system valve	20	Ball	20
(f) WHR plant to fresh water system	15	SDNR	02
(g) WHR plant to fresh water system	25	Ball	01
(h) RO Plant to fresh water system			25
SDNR	02		
(j) RO Plant to fresh water system	25	Ball	08
(k) Filling point valve	65	Butterfly	02



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC.

DO 25% only.

FIRE MAIN SYSTEM VALVES

EA 3326

Following valves of fire main system to be overhauled and pressure tested (test pressure: 10 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, rubber seal, SS fasteners and renewal of butterfly valve flap. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) Fire Hydrants	65	SDNR	26
(b) System isolation valve	150	Butterfly	01
(c) System valves	100	Gate	06
(d) System valves	80	SDNR	03
(e) System valves	65	SDNR	04
(f) System valves	65	Butterfly	02
(g) System valves (Prewetting)	50	Butterfly	02
(h) Fin stabilizer cooling	40	Ball	06
(j) System valves	32	SDNR	05
(k) System valves	32	Ball	04
(l) System valves	25	Ball	02
(m) System valves	25	Gate	02

Final Remarks of RFIC.

DO 25% only.

BILGE & BALLAST PUMP SYSTEM VALVES

EA 3327

Following valves of Bilge & Ballast system to be overhauled and pressure tested up (test pressure: 10 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners and renewal of butterfly valve flap. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) System valves	100	Butterfly	10
(b) System isolation valve	100	Butterfly	02
(c) Pump Suction valve	100	Butterfly	02
(d) Pump discharge valve	100	SDNR	02

Final Remarks of RFIC.

DO 25% only.

BILGE PUMP SYSTEM VALVES

EA 3328

Following valves of Bilge pump system to be overhauled and pressure tested up to 10 Kg/cm². Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners and renewal of butterfly valve flap. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) System valves	100	SDNR	05
(b) Pump Suction valve	100	SDNR	01
(c) Pump discharge valve	100	SDNR	02

Final Remarks of RFIC.

DO.

FIRE & SPRINKLING PUMPS VALVES

EA 3329

Following valves of Fire & Sprinkling pumps to be overhauled and pressure tested up to 10 Kg/cm². Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) Pump suction valves	100	SDNR	02



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(b) Pump discharge valve 100 SDNR 02

Final Remarks of RFIC.

DO.

FIXED EDUCTOR SYSTEM VALVES

EA 3330

Following valves of eductor system to be overhauled and pressure tested up to 10 Kg/cm². Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners. Mat Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) Supply valves	100	Butterfly	05
(b) System valves	50	SDNR	20
(c) System valves	65	SDNR	10
(d) System valves	100	SDNR	15

Final Remarks of RFIC.

DO 25% only.

FUEL OIL FILLING & TRANSFERRING SYSTEM VALVES

EA 3331

Following valves of Fuel oil filling & transferring system to be overhauled and pressure tested up (test pressure: 6 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) Fuel DA/ME RU tank quick shut off valves	50	SDSL	04
(b) Fuel RU tank interconnecting ball valve	40	Ball	01
(c) Fuel storage tank and drain tank quick shut off valves	80	SDNR	08
(d) Purifier suction quick shut valves	50	SDNR	02
(e) Diesel alternator fuel valve	20	Ball	04
(f) FOT Pump Discharge	100	Cock	02
(g) FOT Pump Suction	100	Cock	02
(h) Manifold System valves	80	Butterfly	16
(j) RU tank filling valve	50	SDNR	04
(k) Incinerator tank filling	15	SDNR	01
(l) Filling point	125	Gate	04
(m) Emergency DG tank filling	32	SDNR	01
(n) Emergency DG quick shut off valve	15	SDSL	01

Final Remarks of RFIC.

DO 25% only.

FI-FI PUMP SYSTEM VALVES

EA 3332

Following valves of FI-FI system to be overhauled and pressure tested up (test pressure: 15 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners renewal of butterfly valve flap. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) By pass valves	50	SDNR	04
(b) Fi-fi monitor valves	350	Butterfly	03
(c) Foam tank suction	80	SDNR	02
(d) Foam tank suction	50	BALL	02

Final Remarks of RFIC.

DO 25% only.

STARTING AIR SYSTEM VALVES

EA 3333



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Following valves and reducers of starting air system to be overhauled and pressure tested up to 35 Bar for DA and 20 Bar for Main Engine. Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) Main engine starting	40	SDNR	04
(b) Main engine starting	50	Ball	02
(c) DG starting	25	SDNR	04
(d) DA starting valve (common)	40	Ball	01

Final Remarks of RFIC.

DO.

DOMESTIC AIR SYSTEM VALVES

EA 3334

Following valves and reducers of domestic air system to be overhauled and pressure tested up to 10 Kg/cm². Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) Air hydrant valve	20	Ball	20
(b) System valves	15	Ball	10

Final Remarks of RFIC.

DO 25% only.

A/C AND REF SEA WATER SYSTEM VALVES

EA 3335

Following valves of AC & Ref Sea water system to be overhauled and pressure tested up to (test pressure 06 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners, and renewal of butterfly valve flap. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) AC Condenser outlet	100	SDNR	03
(b) AC Condenser inlet	100	Butterfly	03
(c) AC Condenser pump discharge	150	SDNR	02
(d) AC Condenser pump suction	150	Butterfly	04
(e) Ref condenser inlet	40	Ball	02
(f) Ref condenser outlet	50	SDNR	02
(g) Ref condenser pump inlet	40	Ball	02
(h) Ref condenser pump outlet	40	SDNR	02
(j) Emergency cooling AC	80	SDNR	01
(k) Emergency cooling REF	40	SDNR	01
(l) System valve	100	SDNR	02

Final Remarks of RFIC.

DO 25% only.

HOT WATER CIRCULATING SYSTEM VALVES

EA 3336

Ser. Description	Size mm	Type	Qty nos
(a) Pump suction	32	Ball valve	02
(b) Pump discharge valve	32	SDNR	01
(c) Calorifier in/ outlet valve	50	SDNR	02
(d) System Valves	25	Ball	12

Following valves of hot water circulation system to be overhauled and pressure tested up to (test pressure 06 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners, and renewal of butterfly valve flap. Mat: Contractor supply

Final Remarks of RFIC.

Final



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO 25% only.

LUB OIL SYSTEM VALVES

EA 3337

Following valves of lub oil system to be overhauled and pressure tested up to (test pressure 06 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners, and renewal of butterfly valve flap. Mat: Contractor supply

Ser. Description	Size mm	Type	Qty nos
(a) ME & Gearbox storage tank quick shut off	50	SDNR	02
(b) DA storage tank quick shut off valve	25	Ball	02
(c) System valves	50	SDNR	02
(d) System valves	50	Ball	09
(e) System Valves	25	Ball	07

Final Remarks of RFIC.

DO 25% only.

AVCAT SYSTEM VALVES

EA 3338

Ser. Description	Size mm	Type	Qty nos
(a) Pump suction valves	50	Ball	02
(b) Pump discharge valve	50	SDNR	02
(c) System Valves	50	Ball	14
(d) Filling Valve	65	Butterfly	01
(e) Eductor Valve	40	Butterfly	01
(f) Service tank QSV	50	Quick Shut off valve	01
(g) Storage tank QSV	50	Quick Shut off valve	01
(h) Service Tank drain valve	20	Ball	01

Following valves of Avcat System to be overhauled and pressure tested up to (test pressure- 06 Kg/cm²). Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners, and renewal of butterfly valve flap. Mat: Contractor supply

Final Remarks of RFIC.

DO 25% only.

AC CHILLER SYSTEM VALVES

EA 3339

Following valves of AC chiller system to be overhauled and pressure tested up to 06 Kg/cm². Valves to be painted with suitable color code and refitted in position. Job involves renewal of gaskets, SS fasteners, and renewal of butterfly valve flap. Mat: Contractor supply.

Ser. Description	Size mm	Type	Qty nos
(a) Pump Suction Valve	125	Butterfly	02
(b) Pump Discharge Valve	150	SDNR	02
(c) Chiller Inlet	100	Butterfly	03
(d) Chiller Outlet	100	SDNR	03
(e) ATU No.1 Inlet	80	Butterfly	01
(f) ATU No.1 Outlet	80	Globe	01
(g) ATU No.2 Inlet	65	Butterfly	03
(h) ATUNo.2 Outlet	65	Globe	03
(j) ATU No.3&4 Inlet	50	Butterfly	02
(k) ATU No.3&4 Outlet	50	Globe	02
(l) FCU Inlet Valve	25	Ball Valve	08
(m) FCU Outlet	25	Globe	07
(n) FCU Drain Valve	20	Globe	07

Final Remarks of RFIC.

DO 25% only.

EA 3340

04 nos. ATU chilled water automatic flow control valve (Make: M/s Seimens, Model: SBV61) to be overhauled and calibrated through NABL accredited lab. Calibration certificate to be provided.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Final Remarks of RFIC

DO through authorised/Competent firm.

STERN TUBE SEA WATER SYSTEM VALVES

EA 3341

Overhaul and pressure test (test pressure: 6 Bar) of both Stern tube cooling line inlet and outlet valves (Size-50 mm, Type- SDNR, Qty-04 nos). Post overhauling of valves, paint as per paint scheme.

Final Remarks of RFIC

DO

PIPELINES

MAIN ENGINE SEA WATER SYSTEM PIPELINES

EA 3342

Chemically clean, pressure test and re-fit (Dia: 200 mm, Mat: Cu Ni and Length: 20 Mtrs, test Pr: 06 Kg/Cm²) main engine system pipe lines. Pipe to be painted as per paint scheme before fitment.

Mat: Contractor supply

Final Remarks of RFIC

DO 25% of total length.

DIESEL ALTERNATOR SEA WATER SYSTEM

EA 3343

Chemically clean, pressure test and refit (Dia: 65 mm, Mat: Cu Ni and Length: 60 Mtrs, test pressure: 06 kg /cm²) system pipe lines. Pipe to be painted as per paint scheme before fitment.

Mat: Contractor supply.

Final Remarks of RFIC

DO 25% of total length.

FIRE MAIN SYSTEM PIPE LINES

EA 3344

Chemically clean, pressure test (test pressure: 10 kg/cm²) and re-fit following fire main system pipe lines. Pipe to be painted as per paint scheme before fitment. Mat: Contractor supply

- (a) Dia: 65 mm, Mat: Cu Ni and Length: 80 mtr
- (b) Dia: 80 mm, Mat: Cu Ni and Length: 50 mtr
- (c) Dia: 100 mm, Mat: Cu Ni and Length: 40 mtrs
- (d) Dia: 150 mm, Mat: Cu Ni and Length: 50 mtr
- (e) Dia: 50 mm, Mat: Cu Ni and Length: 20 mtr
- (f) Dia: 40 mm, Mat: Cu Ni and Length: 20 mtr
- (g) Dia: 32 mm, Mat: Cu Ni and Length: 20 mtr
- (h) Dia: 25 mm, Mat: Cu Ni and Length: 10 mtr

Final Remarks of RFIC

DO. 25% of total length.

EB 3345

Fire man pressure gauges in main alleyway showing erratic reading. To be renewed as per sample. (Qty:02 Nos., Range: 0-12 bar). Calibration certificate of new gauges to be provided. Job includes renewal of gauge line (Dia-10 mm, Len-0.5 mtr each) along with union and end connectors.

Final Remarks of RFIC

DO. Material Contractor supply

EB 3346

07 Nos. Bulkhead penetration pieces (Size-150 NB) and 01 No. Bulkhead penetration piece (Size-100 NB) of Fire main system excessively corroded. To be renewed as per sample. Inway job includes removal and refitment of air ducts, wherever required.

Final Remarks of RFIC

DO. Material Contractor supply

STERN TUBE SEA WATER SYSTEM PIPE LINES

EA 3347



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Chemically clean, pressure test (test pressure: 4.5 Kg/cm²) and re-fit (Dia: 20 mm, Mat: Cu Ni and Length: 25Mtrs) system pipe lines. Pipe to be painted as per CG approved paint scheme before fitment. Mat: Contractor supply

Final Remarks of RFIC

DO 25% of total length.

GEAR BOX SEA WATER SYSTEM PIPE LINES

EA 3348

Chemically clean, pressure test (test pressure: - 6 Kg/cm²) and re-fit system pipe lines (Dia: 80 mm, Mat: Cu Ni and Length: 20 Mtrs). Pipe to be painted as per existing paint scheme before fitment. Mat: Contractor supply

Final Remarks of RFIC

DO 25% of total length.

SEA WATER SYSTEM

EA 3349

Chemically clean, pressure test (test pressure: 06 kg /cm²) and re-fit system pipe lines (Dia: 40 mm, Mat: Cu Ni and Length: 20 Mtrs). Pipe to be painted as per CG paint scheme before fitment. Mat: Contractor supply

Final Remarks of RFIC

DO 25% of total length.

STARTING AIR SYSTEM MAIN ENGINE

EA 3350

Chemically clean, pressure test (test pressure: 45 bar) and re-fit starting air system pipe lines (Dia: 40 mm, Mat: GI and Length: 35 Mtrs). Pipe to be painted as per existing paint scheme before fitment. Mat: Contractor supply

Final Remarks of RFIC

DO 25% of total length.

STARTING AIR SYSTEM DIESEL ALTERNATOR

EA 3351

Chemically clean, pressure test (test pressure: 45 bar) and re-fit system pipe lines (Dia: 40 mm, Mat: GI and Length: 50Mtrs). Pipe to be painted as per existing paint scheme before fitment. Mat: Contractor supply

Final Remarks of RFIC

DO 25% of total length.

DOMESTIC 07 BAR AIR SYSTEM

EA 3352

Chemically clean, pressure test (test pressure: 12 bar) and re-fit following domestic 07 bar air system pipes. Pipe to be painted as per existing paint scheme before fitment. Mat: Contractor supply

(a) GI pipe- Length: 200 mtr, Dia: 25mm.

(b) GI pipe- Length: 150 mtr, Dia: 15mm

Final Remarks of RFIC

DO 25% of total length.

AC CONDENSER SEA WATER SYSTEM

EA 3353

Following A/C sea water system pipes to be chemically cleaned and pressured tested (test pressure: 8 bar). Pipe to be painted as per existing paint scheme before fitment. Mat: Contractor supply

(a) Condenser pump suction & discharge pipe, Dia: 150 mm, Mat: Cu Ni and Length: 23 Mtrs

(b) 03 in nos Condenser inlet and outlet pipe, Dia: 100 mm, Mat: Cu Ni and Length: 08 Mtrs

Final Remarks of RFIC

DO 25% of total length.

EB 3354



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

AC sea water system 10 Nos. Rubber bellows {Size-150 NB (04 Nos.) and 80 NB (06 Nos.)} perished view fair wear & tear. To be renewed as per sample.

Final Remarks of RFIC

DO. Material Contractor supply

EB 3355

Sea water flow meter (make: Scientific Devices, Model: SDMT-10/150) to be calibrated through NABL accredited lab and calibration certificate to be provided

Final Remarks of RFIC

DO through authorised/competent firm.

EB 3356

04 Nos. Rotameter (Make: Scientific Devices) to be calibrated and calibration certificate to be provided.

Final Remarks of RFIC

DO through authorised/competent firm.

EB 3357

02 Nos. Pressure relief valves (Set pressure-5 bar) of AC sea water system to be calibrated and calibration certificate to be provided.

Final Remarks of RFIC

DO

REF CONDENSER SEA WATER SYSTEM

EA 3358

Ref sea water system pipes to be chemically cleaned, pressured tested up 3 bar) and renew all fasteners (Mat: SS). Dia: 32 mm, length: 20 mtrs, Mat: Cu-Ni. Pipe to be painted as per existing paint scheme before fitment. Mat: Contractor supply

Final Remarks of RFIC

DO 25% of total length.

EA 3359

06 Nos. Ref sea water system rubber bellows (Size-40 NB) deteriorated view fair wear & tear. To be renewed as per sample.

Final Remarks of RFIC

DO

PLUMBER BLOCK SEA WATER COOLING SYSTEM

EA 3360

Plumber block sea water system pipes and cooler to be chemically cleaned, pressured tested (test pressure:03 bar) and renew all fasteners (Mat-SS) connectors and unions as per sample (Dia of pipe 20 mm, length: 20 mtrs, Mat: Cu-Ni)

Final Remarks of RFIC

DO 25% of total length.

AVCAT SYSTEM PIPE LINES

EA 3361

Following entire AVCAT system Pipe lines to be chemically cleaned, pressure tested (test pressure: 6 Kg/cm²) and refitted. Painting to be carried out as per scheme.

(a) Stainless steel 65 mm Dia X length 7 Mtrs

(b) Stainless steel 50 mm Dia X length 25 Mtrs

(c) Stainless steel 25 mm Dia X length 6.5 Mtrs

Final Remarks of RFIC

DO 25% of total length.

BILGE AND BALLAST SYSTEM

EA 3362



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Following pipes of Bilge & Ballast system to be overhauled and pressure tested (test pressure: 4.5 Kg/cm²). Pipes to be painted with existing color code:

- (a) Seamless Steel Pipe 33.4 OD X 3.4 Thk - 30 Mtrs
- (b) Seamless Steel Pipe 42.2 OD X 3.6 Thk - 10 Mtrs
- (c) Seamless Steel Pipe 48.3 OD X 3.7 Thk - 60 Mtrs
- (d) Seamless Steel Pipe 60.3 OD X 3.9 Thk - 350 Mtrs

Final Remarks of RFIC

DO 25% of total length.

FUEL OIL SERVICE SYSTEM

EA 3363

Pipe 28 mm OD X 150 Mtrs of Fuel oil service system (Mat-GI) to be overhauled and pressure tested (test pressure: 10 Kg/cm²). Pipe to be painted with existing color code.

Final Remarks of RFIC

DO 25% of total length.

AC CHILLER WATER SYSTEM

EA 3364

Following A/C chiller water system pipes to be chemically cleaned and pressured tested up to 6 bar. Pipe to be painted as per CG paint scheme and cold insulation to be carried out before fitment. Mat: Cu-Ni; Working pressure: 4 Kg/cm².

- (a) Chiller pump suction & discharge pipe, Dia: 150 mm, Mat: GI and Length: 45 Mtrs
- (b) FCUs inlet and outlet pipe, Dia: 40 mm, Mat: Cu-Ni and Length: 75Mtrs.

Final Remarks of RFIC

DO 25% of total length.

FRESH WATER SYSTEM

EA 3365

Fresh water system to be chemically cleaned and pressure tested (test pressure: 6 Kg/cm²). Pipe to be painted as per CG paint scheme and cold insulation to be carried out before fitment. (length: 20mtrs Dia-65 mm, Length- 10 Mtr, Dia- 40 mm, Len- 30Mtr, Dia- 32mm, Len-30 Mtr, Dia-25 mm, Len- 20mtr, Dia- 15 mm, mat: GI)

Final Remarks of RFIC

DO 25% of total length.

HOT WATER CIRCULATION SYSTEM

EA 3366

Hot water circulating system chocked at different places. Entire system lines (hot water pump to bathrooms) to be chemically cleaned & pressure tested up to 06 kg/cm² (Length:165 mtr, Mat: GI, Dia: 30 mm)

Final Remarks of RFIC

DO 25% of total length.

SPRINKLING SYSTEM

EA 3367

Following sprinkling system lines to be chemically cleaned and pressure tested (test pressure: 10 Kg/Cm²). Pipe to be painted as per existing paint scheme:

- (a) Magazine sprinkling system: Cu-Ni pipe 14mm dia X 40Mtrs
- (b) Paint store sprinkling system: Cu-Ni pipe 14 mm dia X 40Mtrs
- (c) Halo hanger sprinkling system: Cu-Ni pipe 14 mm dia X 60Mtrs

Final Remarks of RFIC

DO 25% of total length.

EA 3368

Remove all sprinklers at Halo hanger, magazine compartment and paint store and chemically clean and refit along with new gaskets. Renew defective sprinklers. Post fitment testing of sprinklers to be undertaken

Final Remarks of RFIC



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO

MAIN ENGINE FUEL SYSTEM

EA 3369

Following main engine fuel system lines to be chemically cleaned and pressure tested (test pressure: 2.25 Kg/Cm²). Pipe to be painted as per existing paint scheme:

- (a) GI pipe: 50 mm dia x length 50 Mtrs
- (b) GI pipe: 40 mm dia X length 130 Mtrs
- (c) GI pipe: 20 mm dia X length 50 Mtrs

Final Remarks of RFIC

DO 25% of total length.

DA FUEL SYSTEM

EA 3370

Following DA fuel system lines to be chemically cleaned and pressure tested (test pressure: 3 Kg/cm²). Pipe to be painted as per existing paint scheme:

- (a) GI pipe: 20 mm dia X length 40 mtr
- (b) GI pipe: 15 mm dia X length 45 mtr

Final Remarks of RFIC

DO 25% of total length.

DA LUB OIL SYSTEM

EA 3371

DA lub oil system lines (GI 25mmdia X 45 mtrs) to be chemically cleaned and pressure tested (test pressure: 3 Kg/cm²). Pipe to be painted as per paint scheme.

Final Remarks of RFIC

DO 25% of total length.

MAIN ENGINE LUB OIL SYSTEM

EA 3372

Main engine lub oil system lines (GI pipe 40 mm dia X 60 Mtrs) to be chemically cleaned and pressure tested (test pressure: 3 Kg/cm²). Pipe to be painted as per paint scheme.

Final Remarks of RFIC

DO 25% of total length.

INCINERATOR FUEL SYSTEM

EA 3373

Following fuel system lines of Incinerator to be chemically cleaned and pressure tested (test pressure: 03 Kg/cm²). Pipe to be painted as per existing paint scheme and cold insulation to be carried out before fitment:

- (a) GI Pipe: 10 mm, Dia X length 10 m
- (b) Gi Pipe: 15 mm, Dia X length 12 m

Final Remarks of RFIC

DO 25% of total length.

MISCELLANEOUS

EB 3374

Carryout chemical cleaning of bilge fixed educators (5 Nos.) and all educators to be proved for bilge suction.

Final Remarks of RFIC

DO.

EB 3375

Rod gearings mechanism (Type: SDNR, Size: 50mm, Qty: 05) to be overhauled and proved for operation.

Final Remarks of RFIC

DO



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EB 3376

Emergency DA exhaust lagging and metallic cladding deteriorated and worn out. At various places. Lagging along with GI cladding to be renewed as per sample. (Approx Area: 25 sqmtrs)

Final Remarks of RFIC

DO

EB 3377

Bilge Chequered plates in AC and DA compartment corroded and deteriorated at numerous locations. Bilge plates to be renewed as per sample. (Mat: Aluminum, Area: 15 square meter)

Final Remarks of RFIC

DO

EB 3378

Main engine room DA compt bilge plate securing frame worn out. Frame to be fabricated and fitted as per sample. (Size: 40 x40 mm, L: 20 mtrs)

Final Remarks of RFIC

DO

EB 3379

AC, Ref and Steering gear compartment bilge plate securing screws corroded and deteriorated. Screws to be renewed as per sample. (Mat: SS, Size: M 5 X 15 MM, nos of screws: 500)

Final Remarks of RFIC

DO

EB 3380

Sea water leakage observed from AC compartment and Main engine room fixed eductor system bilge suction and overboard pipe view corroded and pin holed at different places. Pipe to be renewed as per sample (Dia of pipe: 100 mm, length: 3mtr and Dia-80 mm, L- 9 mtr)

Final Remarks of RFIC

DO

EB 3381

Exhaust lagging of 04 nos main Diesel Alternator deteriorated. Lagging along with GI cladding to be renewed as per sample (Mat of lagging: Glass wool, Area: 30 Square meter). Exhaust trunking gasket (Qty-12 Nos.) to be renewed and fasteners to be tightened prior lagging.

Final Remarks of RFIC

DO

EB 3382

Fresh water hydrophore tank discharge pipe thinned down and pin holed. Pipe to be renewed as per sample. (Size- 50/40 mm, Length-01 mtr, Mat-GI Sch 40)

Final Remarks of RFIC

DO

EB 3383

Both fresh water pump discharge bellows distorted/damaged. Bellows to be fabricated/renewed as per sample. (ID-50 mm, PDC-140 mm, No. of holes-04 Nos., Qty-02 Nos.)

Final Remarks of RFIC

DO

EB 3384

Aft Fire & Sprinkling pump discharge bellow cracked. Bellow to be fabricated/renewed as per sample (ID-100 mm, PCD-170 mm, No. of holes- 08 Nos., Qty-01 No.).

Final Remarks of RFIC

DO.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

EB 3385

Aft Bilge & Ballast pump suction and discharge pipe thinned down and pin holed at various places. Pipe to be renewed as per sample. (Dia-100 mm, Length-02 mtr, Dia-100mm, Length ½ mtr, Mat-GI Sch 40).

Final Remarks of RFIC

DO

EB 3386

Both Main engines heat exchanger sea water inlet pipe thinned down and cracked. Pipe along with collar to be renewed as per sample (Dia-150 mm, Length-04 mtr, Mat- Cu-Ni).

Final Remarks of RFIC

DO

EA 3387

Vibration trials are to be undertaken during pre & post refit trials and Report to be submitted. The vibration measurement of major machinery (Main Engines, DAs, Gear Boxes, Pumps, Compressors etc.) are to include frequency analysis in addition to all amplitude measurements in horizontal, vertical and axial directions.

Final Remarks of RFIC

DO as per RFIC minutes.

SUMMARY OF DEFECT LISTS

Engineering DL : EA-3001 to EA-3387

Deleted DL : EB-3004, EC-3020, EB-3024, EA-3270

NOTE

(i) Please note that where ever "**Contractor supply**" mentioned it means "**contractors supply**".

(ii) Vendors not to quote the following DLs, as this DL is already covered in subsequent DL's which are specified as below;

Covered DL : i) EA-3299 WITH EA-3257



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

ICGS VIKRAM MAIN DEFECT LIST SR-1 – ELECTRICAL

UNDER WATER PACKAGE

ICCP SYSTEM, OEM: M/S SARGAM CATHODIC PROTECTION LLP, CHENNAI, (QTY: 01 NO.)

LA-5001

Contractor to provide staging for enabling OEM/PAC firm for undertaking ICCP jobs during dry docking.

FINAL RFIC REMARKS

DO through PAC firm

LA-5002

Inspection of hull parts from outside the ship. Check physical state of anodes, Di-electric shield and reference electrodes. Check for water seepage in the cofferdam and junction boxes. Remove lid and inspect the cofferdam. Renew connection bonding between propeller shaft and hull, and between rudder and hull ensuring resistance to be zero and Check all anodes by megger to ensure that there is no shorting of anodes.

FINAL RFIC REMARKS

DO through PAC firm

LA-5003

Overhaul control panel (100 Amp) of ICCP system. Calibrate 04 Nos. digital meters (Volts/ Amps). Calibration certificates to be provided.

FINAL RFIC REMARKS

DO through PAC firm

ICAF SYSTEM, OEM: M/S CATHELCO LIMITED, UK / MUMBAI (QTY: 01 NO.)

LA-5004

25 Nos Copper anodes at Engine Room, DA Compartment, Fwd & Aft AMR and Emergency Fire Pump to be replaced as per sample.

Total Copper anodes - 25 Nos

CA076159MGA- 02 Nos

CA076159MGB- 02 Nos

CA076159MGC- 02 Nos

CA076159MGD- 14 Nos

CA076159MGE-05Nos

FINAL RFIC REMARKS

DO Anodes Contractor Supply

LA-5005

Overhaul 02 nos control panels, 25 nos. Digital Processing Units and prove the system for satisfactory operation.

FINAL RFIC REMARKS

DO, Material Contractor supply

LB-5006

AC sea chest-1 anode stud connecting nylon mounting sleeve on flange deteriorated and broken. Same to be repaired / replaced and defect to be rectified.

FINAL RFIC REMARKS

DO, Material Contractor supply

EM LOG, OEM: M/S SPERRY MARINE, GERMANY, TYPE: FNF III 4874 (QTY: 01 NO.), PAC: M/S MEPL, MUMBAI (QTY: 01 NO.)

LA-5008

Overhaul log pick up head housing and isolation valve, replace 'O' rings.

FINAL RFIC REMARKS

DO 'O' Rings Contractor Supply

LA-5009



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120
Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302
Type of tender: Limited Tender

Assemble valves and housing into the location and carry out pressure testing prior ship's undocking.

FINAL RFIC REMARKS

DO. Material contractor supply

LA-5010

Overhaul the control panel.

FINAL RFIC REMARKS

DO. Material contractor Supply

LA-5011

Calibrate and align all repeaters.

(Qty-03nos. digital & 02 nos. analogue)

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate

LA-5012

Check insulation of pick up electrodes and excitation coil. Check coil resistance of excitation coil (Min. acceptable: 10 Mega ohm).

FINAL RFIC REMARKS

DO.

LA-5013

Carry out calibration of EM Log by measured distance run test procedure.

FINAL RFIC REMARKS

DO. Contractor to provide calibration certificate

ECHO SOUNDER (24 KHZ& 200 KHZ), OEM: M/S SKIPPER ELECTRONICS AS, NORWAY, TYPE: GDS-102, PAC: M/S NORINCO PVT LTD, MUMBAI (QTY: 01 NO.)

LA-5014

02 nos transducers fitment along with surface ring to be cleaned properly and sea weeds to be removed (in Dry Dock). Intactness to be checked. Carryout performance checks including feed to IBS and prove the system for satisfactory operation.

FINAL RFIC REMARKS

Do through PAC firm

LB-5015

Power supply cable from power JB (inside IBS console, Bridge) to Echo sounder unit (ops room) showing grounding. Cable (2 core screened, Size: 1.5mm, length 50Mtr approx) to be renewed. Job includes removal and re-fitment of ceiling/ wall paneling of captain's cabin, captain's lobby and ops room.

FINAL RFIC REMARKS

Do through PAC firm

MAIN PACKAGE

MAIN SWITCH BOARD (MSB) (QTY: 02 NOS) AND AUTOMATIC POWER MANAGEMENT SYSTEM (APMS) (QTY: 01 NO) OEM: M/S L&T EBG, NAVI MUMBAI

LA-5016

Following MSB meters to be calibrated and calibration certificate to be provided.

	Description	Range	Qty
(a)	Volt Meter	0-500V	06 Nos
(b)	Ammeter	0-1000	10 nos.
(c)	Frequency Meter	45-55 HZ	06 nos.
(d)	KW Meter	-70 to 650KW	08 nos.
(e)	Power Factor meter	-0.5 to 0.5	08 nos.
(f)	Synchroscope	---	02 nos.
(g)	Double Volt meter	0-500V	02 nos.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (h) Double frequency Meter 45-55 HZ 02 nos.
(j) Insulation Checker 0 to ∞ 04 nos.
(k) KWh (Energy) meter ---- 02 nos

FINAL RFIC REMARKS

DO as per DL serial. Material-Contractor Supply

Spares-CG Suppl. Contractor to submit calibration certificate from NABL approved test facility

LA-5017

Calibrate power factor relays (Qty-04) of both MSB.

FINAL RFIC REMARKS

DO as per DL serial. Contractor to submit calibration certificate from NABL approved test facility

LA-5018

Overhaul 13 nos. Air circuit breakers (Make: L&T), calibrate safety trips (Overload, Short circuit, ground fault and Instantaneous) and certificate to be issued. Ratings: 1000A (07 nos) and 1600A (06 nos)

FINAL RFIC REMARKS

DO as per DL serial Material- Contractor Supply Spares- CG Supply. Contractor to submit calibration certificate from NABL approved test facility

LA-5019

Inspect MCCBs of all outgoing feeders and all defective components/MCCBs to be replaced. 41 MCCBs (Make: L&T) calibrate safety trips and calibration certificate to be issued. 50A (04 nos), 63A (02 nos), 80A(06 no), 100A(03 nos), 125A(13 nos), 160A(03 nos), 200A(06 nos), 630A(04 nos)

FINAL RFIC REMARKS

DO as per DL serial Material- Contractor Supply Spares- CG Supply. Contractor to submit calibration certificate from NABL approved test facility

LA-5020

Overhaul Governor control unit and control panels of all 04 nos generators and carryout functional checks of DGs after fitment.

FINAL RFIC REMARKS

DO, Material Contractor supply.

LA-5021

Calibrate and prove 04 nos Protection & Paralleling Unit (PPU) and Reverse power relay in respect of 04 Generators.

FINAL RFIC REMARKS

DO as per DL serial. Contractor to submit calibration certificate from NABL approved test facility

LB-5022

Programming and installation of PPU in MSB-1 for DA no. 3. Post programming, DA no. 3 is to be proved for satisfactory paralleling operation with other DA (DA no. 1, 2 and 4) in AUTO mode. (**PPU: Ship's supply**).

FINAL RFIC REMARKS

DO through competent firm Material Contractor Supply

LA-5023

Calibrate all units of APMS and defective components to be replaced. Job involves updating of PLC software and proving of interfacing between DA and APMS.

FINAL RFIC REMARKS

DO as per DL serial. Material- Contractor Supply Spares- CG Supply. Contractor to submit calibration certificate from NABL approved test facility



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LB-5024

Following false alarm exhibiting intermittently on MFWs of IPMS APMS:

- (i) MSB1 Ring A inter connector (IC1, IC2, IC3 & IC4) breaker trip status
- (ii) MSB1 Ring A 1Q7, 1Q6, 1Q5, 1Q4, 1Q3, 1Q2, 1Q1 breaker trip status
- (iii) MSB2 Ring A 1Q10, 1Q8, 1Q6, 1Q5, 1Q4, 1Q3, 1Q2, 1Q1 breaker trip status
- (iv) MSB1 Ring A DG3 24V DC supply low alarm
- (v) MSB2 Ring A DG2 24V DC supply low alarm
- (vi) MSB2 Ring B DG-4 24V DC supply low alarm
- (vii) Ring B EDA Engine fails to start
- (viii) Ring A EDA lub oil temperature transmitter alarm
- (ix) DG fails to start
- (x) DG synchronizing fail- Software to be upgraded/ defect to be rectified.

FINAL RFIC REMARKS

DO as per DL serial. Material-Contractor Supply Spares-CG Supply.

MAIN ALTERNATOR (415V, 3PH, 50HZ, 500 KW) OEM: M/S EMERSON INDUSTRIAL AUTOMATION ELECTRIC POWER GENERATOR, BANGALORE, MODEL-LSAM49, PAC: M/S KOEL, PUNE AND LOCAL CONTROL PANELS OEM: M/S MARINE ELECTRICALS PVT LTD, MUMBAI (QTY: 04 NOSEACH)

LA-5025

Overhaul the 04 Nos. Main Alternators 415V, 3Ph, 500 KW as per following: -

- (a) Open alternators both ends terminal covers.
- (b) Record insulation of Stator, exciter and rotor winding with respect to phase-to-phase, phase to earth prior commencement and after completion of routines.
- (c) Clean stator, exciter and rotor windings, terminal lugs, and associated wirings with hot air and alcohol. Apply super thermal conductive quick drying insulation varnish to the exposed portion of winding.
- (d) Spray paint on alternator body to be undertaken.
- (e) Renewal of bearings: -
DE bearing (Qty-04 Nos, Patt no: DV2.M802.76.0.00),
NDE bearing (Qty- 04 Nos, part no.- DV2.M802.89.0.00)

FINAL RFIC REMARKS

DO as per DL serial. Material & Bearings (Drive & Non Drive end) Contractor Spares-CG Supply.

LA-5026

Overhaul the local control panel, all auxiliary contactors to be cleaned. Performance of to be checked. Replace defective. Calibrate digital display unit for all values in each DA and calibration certificate to be provided. (PAC M/s MEPL)

FINAL RFIC REMARKS

DO as per DL serial. Material- Contractor Supply Spares-CG Supply Contractor to submit calibration certificate from NABL approved test facility

LA-5027

04 nos. AVR of DA's to be calibrated. Manual voltage regulator to be checked and functional test to be proved.

FINAL RFIC REMARKS

DO as per DL serial. Contractor to submit calibration certificate from NABL approved test facility

LA-5028

Engine starting system to be proved in all modes. Load test (for 02 nos. DA) to be carried out for satisfactory operation of generator. All feeds to IPMS to be proved.

FINAL RFIC REMARKS

DO, Material Contractor supply. Trials on ship load for 04 DAs to be carried out for satisfactory operation.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LA-5029

Calibrate following sensors of all 04 DGs and all alarm/ safety trips to be proved: -

- (a) Lub oil pressure, 02 each
- (b) Exhaust temperature, 02 each
- (c) Lub oil temperature, 02 each
- (d) Fresh water temperature, 02 each
- (e) Magnetic Pick-up Unit (MPU)/ RPM sensor, 02 each.
- (f) Coolant level sensor, 01 each.
- (g) Starting air pressure transmitter, 01 each.
- (h) Sea water pressure sensor (Part No.6H.715.28.0.00), 01 each.
- (j) Fuel oil pressure sensor, 01 each
- (k) Start air pressure sensor -01 each
- (l) Alternator winding temperature -03 each
- (m) Alternator NDE Bearing temperature (non driven end) - 01 each
- (n) Barring tool safety mechanism (Part No. DV2.861.12.0.00) -01 each
- (p) Emergency stop -01 each

FINAL RFIC REMARKS

DO as per DL serial. Contractor to submit calibration certificate from NABL approved test facility

EMERGENCY DIESEL GENERATOR (EDG) - 415V, 3 PH, 50 HZ, 86 KW (MAKE: M/S EMERSON INDUSTRIAL AUTOMATION ELECTRIC POWER GENERATOR, BANGALORE) AND LOCAL CONTROL PANEL (MAKE: M/S MARINE ELECTRICALS, MUMBAI) (QTY: 01 NO EACH)

LA-5030

Overhaul the alternator as following:

- (a) Open alternators both ends terminal covers.
- (b) Record insulation values of stator, exciter and rotor windings with respect to phase to phase and phase to earth prior commencement and after completion of routines.
- (c) Clean stator, exciter and rotor windings and terminal lugs along with associated wirings with hot air and alcohol. Apply super thermal conductive quick drying insulation varnish to the exposed portion of windings.

{01 Bearings for Emg. DA

NDE bearing (Qty- 01 no, part no.-6H.M804.96.0.00)}

FINAL RFIC REMARKS

DO as per DL serial, Material & Bearing- Contractor Supply Spares-CG Supply.

LA-5031

Carry out the following:

- (a) Calibrate 01 no. AVR of DA.
- (b) Calibrate 01 no. Generator Protection Unit (GPU)
- (c) Overhaul Local Control Panel (LCP), calibrate all meters and certificate to be issued.
- (d) Calibrate and prove following safety trips
 - (i) Lub oil pressure - 01
 - (ii) Exhaust temperature - 01
 - (iii) Lub oil temperature -01
 - (iv) Fresh water temperature - 01
 - (v) Magnetic Pick-up Unit (MPU)/RPM sensor- 01 No.
- (e) Overhaul 01 no. EDG Starter Motor (Make: Lukas TVS, Part No. 6H.077.51.0.00).

FINAL RFIC REMARKS

DO as per DL serial. Contractor to submit calibration certificate from NABL approved test facility

LA-5032

Overhaul emergency switchboard. Overhaul three number air circuit breakers (350A). Carry out functional checks of all safeties/ trips and prove emergency switch board for auto change over between all three I/P supply. Calibrate 10 nos. MCB and all feed to IPMS to be proved. Calibrate the



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

following meters and calibration certificates to be provided: -

- (a) Voltmeter (0-500V) – 01 No.
- (b) Ammeter (0-200A) – 01 No.
- (c) Power Factor Meter {(-) 0.5 to (+0.5)} - 01 No.
- (d) Kilowatt meter (0-100 KW) – 01 No.
- (e) Frequency meter (45-55 Hz) – 01 No.
- (f) Insulation monitor – 01 No.

FINAL RFIC REMARKS

DO as per DL serial. Material- Contractor Supply. Contractor to submit calibration certificate from NABL approved test facility

ENERGY DISTRIBUTION CENTRE (EDC) 415V, 3 PH, 50 HZ, OEM: M/S L&T EBG, NAVI MUMBAI (QTY: 04 NO)

LA-5033

Inspect all MCCBs of incoming/ outgoing feeders. All trips and safeties to be checked for satisfactory working. Defective components to be replaced.

FINAL RFIC REMARKS

DO, Contractor to provide trip/ safety checks certificate. Material Contractor Supply

LA-5034

Calibrate following analog meters/ indicators and certificate to be issued: -

Voltmeters (0-500 V) – 04 nos

Ammeters (0- 250 A) – 04 nos

Insulation meters (0- ∞ M Ω) – 04 nos

FINAL RFIC REMARKS

DO as per DL serial. Contractor to submit calibration certificate from NABL approved test facility

DISTRIBUTION BOARDS - 415V, 3 PH, 50 HZ (QTY: 11 NOS) – {POWER DISTRIBUTION BOARD (PDB) – 07 NOS, EMERGENCY DISTRIBUTION BOARD (EDB) – 02 NOS, GALLEY DISTRIBUTION BOARD (GDB) – 01 NO AND WORKSHOP DISTRIBUTION BOARD (WDB) – 01 NO} OEM: M/S L&T EBG, NAVI MUMBAI

LA-5035

Calibrate all MCCBs of incoming/ outgoing feeders, all trips and safeties to be checked. Check internal wiring (renew, if required). Replace the defective components/ wiring.

FINAL RFIC REMARKS

DO, Contractor to provide trip/ safety checks certificate. Material Contractor Supply

VENTILATION DISTRIBUTION BOARDS (VDB) –415V3PH 50 HZ (QTY:03NOS) AND VENTILATION STARTER PANELS (VSP) 415V, 3 PH, 50 HZ &230V, 1PH 50 HZ (QTY: 18 NOS) OEM: M/S L&TEBG, NAVI MUMBAI

LA-5036

Functional and physical checks of all contactor, MCBs for incoming/ outgoing feeders to be carried out. All MCBs and safeties to be checked. Check internal wiring/ terminals and renew defective wiring and terminal blocks as applicable.

FINAL RFIC REMARKS

DO, Contractor to provide trip/ safety checks certificate. Material Contractor Supply

LIGHTING TRANSFORMERS, 30 KVA 415/ 230V OEM: M/s L&T EBG, Navi Mumbai (Qty: 07 nos)

LA-5037

Overhaul the 07 Nos transformers. Open all covers, carryout inspection of terminal cover and check for any abnormal vibrations/noise, all terminal & stamping for proper tightness. Blow through pressurized air and apply air drying varnish. Check and record insulation values of windings prior and after overhauling.

FINAL RFIC REMARKS

DO Material Contractor Supply



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

415V AC / 24V DC TRANSFORMER RECTIFIER UNIT CUM DIRECT CURRENT DISTRIBUTION BOARD (TRU-CUM- DCDB) – (QTY: 09 NOS) OEM: M/S L&TEBG, NAVI MUMBAI

LA-5038

Overhaul 09 nos. Transformer Rectifier Unit cum Direct Current Distribution Board and carry out functional test of battery charger in boost and trickle mode and Auto/ Manual operation. Replace diodes/ SCRs if found deteriorated/ uprooted from PCBs.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5039

Calibrate following Voltmeters and Ammeters: -

(0-500 V- 09 Nos, 0-50 V -09 Nos, -100-0-100 A- 09 Nos and 0-100A- 09 Nos) and calibration certificate to be issued. Replace push button switches, gasket and locking arrangements if defective.

FINAL RFIC REMARKS

DO as per DL serial Contractor to submit calibration certificate from NABL approved test facility

Material Contractor Supply

EMERGENCY DG BATTERY CHARGER 415V AC / 24V DC, 20A OEM: M/S L&TEBG, NAVI MUMBAI (QTY: 01 NOS)

LA-5040

Overhaul emergency DG battery charger cum rectifier unit. Carry out functional test in boost and trickle mode. Replace diodes & defective components if found deteriorated / uprooted from PCB

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5041

Calibrate Voltmeter (Qty: 01 no) and Ammeter (Qty: 01 no) and replace push Button switches, gaskets & locking arrangements if required. and certificate to be issued. Replace push button switches, gasket and locking arrangements if defective.

FINAL RFIC REMARKS

DO as per DL serial. Material- Contractor Supply. Contractor to submit calibration certificate from NABL approved test facility

SHORE CONNECTION BOX OEM: M/S L&T EBG, NAVI MUMBAI (QTY: 02 NOS)

LA-5042

Overhaul 02 nos. shore connection boxes. Renew panel rubber gaskets as per sample.

FINAL RFIC REMARKS

DO as per DL SL. Material Contractor Supply.

LA-5043

Calibrate following for Shore connection box and provide calibration certificate: -

- (a) 02 nos. Volt meter (0-500 V)
- (b) 02 nos. Ammeter (0-1000A)
- (c) 02 nos. KWh (Energy) meter
- (d) 02 nos. phase sequence meter
- (e) 02 nos. breaker (1000 Amps)

FINAL RFIC REMARKS

DO as per DL serial Material- Contractor Supply Contractor to submit calibration certificate from NABL approved test facility

LA-5044

Carryout Current Injection Test for MCCB (1000A) and prove for optimum performance.

FINAL RFIC REMARKS

DO, Material Contractor supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LA-5045

Overhaul 02 nos. Ship alongside shore supply boxes. Renew panel rubber gaskets as per sample.

FINAL RFIC REMARKS

DO, Material Contractor supply.

LA-5046

Calibrate following for Ship alongside shore supply connection box and provide calibration certificate:

- (a) 02 nos Voltmeter (0-500 V)
- (b) 02 nos Ammeter (0-100 A)
- (c) 02 nos Breaker (100 A)
- (d) 02 nos Reverse power relay (Model- MRP 11)

FINAL RFIC REMARKS

DO. Contractor to provide calibration certificate. Material Contractor Supply

GYRO COMPASS (NAVIGAT-200), QTY- 01 NO.

LA-5048

Calibrate all analogue (05 nos) and digital repeaters (06 nos.). Provide calibration certificate.

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate.

MAGNETIC COMPASS, MODEL: JUPITER OEM: M/S SPERRY MARINE, PAC: M/S MARINE ELECTRICALS PVT LTD, MUMBAI (QTY: 01 NO)

LA-5050

Overhaul magnetic compass. Carry out compass swing and certificate to be issued.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5051

Check magnetic compass feed lines / cables to Auto pilot for intactness / continuity.

FINAL RFIC REMARKS

DO, Material Contractor supply

COMBINED SIGNAL AUTOMATION UNIT HORN & WHISTLE (MODEL: M-611), ELECTRIC HORN (MODEL: KPH-130C) AND AIR WHISTLE (MODEL: KM-250), TYPE: OEM: M/S KAHLENBERG, USA (QTY: 01EACH)

LA-5052

Open solenoid mechanism and lubricate moving parts of solenoids.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5053

Overhaul electric siren motor (415V, 5.5 KW) and fog light and prove system for satisfactory operation.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5054

Check the condition of electric siren control box and renew contactors kit and prove the system

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5055

Overhaul "signal automation unit". Check the performance of the unit in Air whistle and electric horn mode.

FINAL RFIC REMARKS



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO. Material contractor Supply

IGNALING PROJECTOR (HALOGEN TYPE), OEM: M/S RAY ENTERPRISES, AMBALA (QTY: 02 NOS)

LA-5057

Overhaul 02 nos signaling projectors lights including control panel and ensure reflector {(Part No. RECG-700-09) – 02 Nos.} does not develop cracks on chromium plated surface. Renew the chromium coating if required. Check complete operation of signaling projector. Replace damaged parts.

FINAL RFIC REMARKS

DO as per DL SL. Material Contractor Supply

STEERING GEAR SYSTEM ALONG WITH MOTORS 415V, 3 PH, 50 HZ, 7.5 HP (QTY: 04 NOS) OEM: M/S VANDER VELDEN, NETHERLAND, CONTROL PANEL (QTY: 04 NOS) AUTO PILOT SYSTEM (MODEL: NAVIPILOT 4000+) OEM: M/S SPERRY MARINE, GERMANY (QTY: 01 NO) AND RUDDER ANGLE INDICATORS (QTY: 10 NOS) & PANORAMA INDICATOR (QTY: 02 NOS) OEM: M/S VANDER VELDEN, NETHERLAND

LA-5058

Overhaul including varnishing/oven baking of 04 nos steering gear motors (9KW). Renew both end bearings and alignment to be done. Motor to be painted. Motor connection box gasket to be replaced.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5059

Overhaul 04 nos motor starter panel at ASP, signal processing panel, monitoring cum alarm panels in bridge and MCR, calibrate overload relays (16-25A, Part No. LRD16, 04 Nos.) and calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5060

Complete steering gear including autopilot and feedback units are to be calibrated, aligned and proved for satisfactory performance. Control panel to be overhauled and defective component to be renewed. All feeds to IPMS to be proved.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5061

5 Yearly Routines

- (a) Check the electro mechanical relays of Steering controller and Control panels. Defective relay to be renewed.
- (b) Check the potentiometer of the lever controller and electric helm. Defective potentiometer to be renewed.
- (c) Check centre spring and micro switches of Jog switch defective components to be renewed.
- (d) Exchange shaft seal and optical encoder of digital Helm.
- (e) Replace main contractor and electro mechanical relay of MSA panel.

Inspect the system. Check the performance of all indicators [10 nos (Rudder angle indicator) + 2 nos (Panaroma indicator)] and the same is to be calibrated for satisfactory operation.

FINAL RFIC REMARKS

DO through PAC firm (M/s KNH Tech Service Mumbai). Contractor to provide calibration certificate. Material Contractor Supply

LA-5063

Following safety trips of both Main Engine to be carried through PAC firm (M/s MTU Pune) and calibrated as per trial protocol: -

- (a) Emergency stop



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (b) Over speed trip
- (c) Coolant temperature
- (d) Lub oil temperature
- (e) Coolant pressure
- (f) Lub oil pressure last bearing
- (g) Crankcase pressure
- (h) Main bearing temperature
- (j) Splash oil temperature
- (k) Engine turning device
- (l) Safety system override
- (m) Piston cooling oil pressure at 800 RPM
- (n) Exhaust mean temperature at 800 RPM
- (p) Fuel leakage A & B
- (q) Start air pressure
- (r) Gearbox control oil pressure low

FINAL RFIC REMARKS

DO through PAC firm. Contractor to provide calibration certificate.

LB-5064

Intermittent high fuel leakage alarm observed in PME despite nil fuel accumulation at higher RPM. Sensor is to be calibrated. Defect to be rectified and proved.

FINAL RFIC REMARKS

DO through PAC firm. Spares CG Supply.

LB-5065

BME LOP showing continuous 'Main engine starting interlock' alarm during engine shut down condition. Both main engines starting interlock circuit is not completing in LOP view frequent malfunctioning of lub oil level sensor (B24.1) and showing erratic reading on LOP. Both lub oil level sensor (Part no. X00E50200038) of BME are to be calibrated. Defect to be investigated and rectified.

FINAL RFIC REMARKS

DO through PAC firm. Spares CG Supply.

MAIN ENGINE 24 KW PRE-HEATER & CONTROL PANEL OEM: M/S RICA HILZINGER AND CIRCULATING PUMP MOTOR (440V, 255W) OEM: M/S WILO, GERMANY (QTY: 02 EACH)

LA-5066

Overhaul pre-heater unit, mono block pump motors, control panels, de-scale heating elements and prove for satisfactory operation.

FINAL RFIC REMARKS

DO

MAIN ENGINE LUB OIL PRIMING PUMP MOTOR (5.5 KW), ME OIL FILTER (KFWA) PUMP MOTOR (1.7 KW) AND CONTROL PANEL, OEM: M/S MTU (QTY: 02 EACH)

LA-5067

Overhaul the mono block pump motors and control panels. Defective parts are to be renewed.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5068

Calibrate all overload relays and calibration certificate to be provided.

FINAL RFIC REMARKS

DO

MAIN ENGINE GEAR BOX SYSTEM - MODEL: GHCK-900, OEM: M/S SIEMENS (QTY: 02 NOS) CONSISTING OF FOLLOWING: -

(A) STANDBY LUB OIL PUMP MOTOR - 30 KW OEM: M/S ROTOR NL

(B) STAND BY SEA WATER PUMP MOTOR - 4 KW

(C) TURNING GEAR MOTOR- 5.5 KW (D) CONTROL PANEL



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LA-5069

Overhaul motors (06 Nos.) and control panels including varnishing/oven baking of windings. Renew both end bearings (12 Nos.) and alignment to be done. Motor to be painted. Motor connection box gasket to be replaced. Carry out functional checks of pressure switch for auto operation.

FINAL RFIC REMARKS

DO Material Contractor Supply

LA5070

Check and calibrate overload relays for correct operation. Calibration certificate to be provided.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5071

Calibrate sensors of both gear box and prove operation of alarms and interlocks as per trial protocol. Feeds to IPMS are to be checked for satisfactory operation: -

Cold Checks

- (a) Oil Inlet Gearbox Alarm
- (b) Thrust bearing alarm
- (c) Radial/Axial Plain Bearing Input Shaft/Alarm
- (d) Radial/Axial Plain Bearing Input Shaft/Alarm
- (e) Radial /Plain bearing Input Shaft/Alarm
- (f) Radial Plain Bearing Output Shaft/Alarm
- (g) Radial Plain Bearing Output Shaft/Alarm

Hot Checks

- (a) Oil Inlet –Gearbox Alarm
- (b) Oil Inlet –Gearbox Request auto –disengage and stop
- (c) Stand –by Oil Pump ON
- (d) Stand –by Oil Pump OFF
- (e) Ready for engage – (Main Propulsion Clutch)
- (f) PK Value alarm – (Main Propulsion Clutch Pressure limiting valve)
- (g) Request auto –disengage and stop (Main Clutch)
- (h) Request auto –disengage and stop (Fi-Fi Clutch)
- (j) Indication: Engaged (Fi Fi Clutch)
- (k) Indication: Engaged (Fi Fi Brake)
- (l) Differential Pressure alarm

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

CPP CONTROL SYSTEM OEM: M/S SCHOTTEL, GERMANY (QTY: 02 NOS) ALONG WITH FOLLOWING: -

(A) MOTORS - 25 KW (OEM: M/S LAMMERS) GERMANY (B) CONTROL PANEL (OEM: M/S HWELEKTROTECHNIK, GERMANY)

LA-5072

Overhaul motors (02 Nos.) as follows:

- (a) Record insulation resistance, both prior opening the motor and post completion of routines.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean starter winding and rotor.
- (d) Apply thin layer of thermal conductive quick drying varnish.
- (e) Heat up the winding by using hot air blower/oven baking.
- (f) Replace both end bearings (04 Nos.).
- (g) Cover up the motor and apply paint externally.
- (h) Check the condition of motor terminal strip/post and replace, if found cracked/damaged.

FINAL RFIC REMARKS

DO, Material Contractor supply



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LA-5073

Calibrate 08 nos analog pitch angle indicators, pressure switches (Qty-04) and check auto start/stop operation of CPP motors and calibrate pressure switches.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

LA-5074

Overhaul control panel, update the panel computer with the latest software version/ Patch. Calibrate overload relays (36-50A) and calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

LA-5075

Functional Checks of Alarms, monitoring and interlocks tests are carried out and feed to IPMS to be proved.

Starting Interlock Test: -

Engine Starting Interlock – Shaft locking device engaged

Engine Starting Interlock – Clutch engaged

Clutch engaging interlock- pitch is not in 0 position

Clutch engaging interlock- engine speed is outside the clutch –in window

Alarm & Monitoring Function Test: -

Low Pressure alarm before pitch control DS 1 low –start standby pump

Very low pressure alarm pitch control DS 2

Oil Temperature high

Oil filter clogged

Control failure

Power supply failure

Backup power supply failure

FINAL RFIC REMARKS

DO Contractor to provide functional check certificate.

BOW THRUSTER SYSTEM TUNNEL THRUSTER WITH MOTOR OEM: M/S ZF MARINE (QTY- 01 NO.)

LA-5076

5 Yearly Routines

(a) Overhauling of motor, starter panel and resistance box remote control box including renewal of bearing, carbon brushes, carbon brush holder and slip ring. Calibrate all OLRs.

(b) Dynamic balancing of motor(450KW).

FINAL RFIC REMARKS

DO, Material Contractor supply

LB-5077

Overhauling of display unit of stbd docking console fitted in bridge. (Qty- 01 No.) Job involves repairs on display controller PCB/ renewal of system software for proving satisfactory operation.

FINAL RFIC REMARKS

DO, Material Contractor supply.

INTEGRATED PLATFORM MANAGEMENT SYSTEM (IPMS) OEM: M/S L&TEBG, NAVI MUMBAI (QTY: 01 NO)

LA-5078

Overhauling of IPMS, including 04 RCS & 10 RTU control panels. All feeds to IPMS to be proved.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5079

Calibrate and carry out functional check of (04 nos) Combinators in MCR, Bridge &both docking



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

consoles for pitch and speed.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5080

Calibration of 04 nos draft sensors and 21 nos flood detection sensors fitted in various underwater compartments with their feed in IPMS. Calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5081

28 Nos tanks level sensor (Fuel, Lube oil and AVCAT, Ballast, Fresh water, water mist) to be calibrated and proved with their feed in IPMS. Calibration certificate to be provided. {Tank level sensor Part No. IPMS109DCIS01. Verified and display unit Part No. RDA 860}

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5082

Calibration of 08 nos analogue engine RPM meter and 08 nos analogue shaft RPM meters of both main engines. Calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

TORSION METER (KDU-110) OEM: M/SKYMA (QTY- 02 NOS)

LA-5083

Calibration of Torsion system for optimum performance and Calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate

AIR COMPRESSOR MOTOR (415V, 11 KW) AND CONTROL PANEL OEM: M/S SPERRE INDUSTRIES, NORWAY (MODEL: HL2/105A) (QTY: 02 NOS)

LA-5084

Overhauling of control panels. Calibrate overload relay (18-25A, Qty-02) using current injection test, Calibrate Voltmeter and Ammeter (0-100A, Qty-02). Check auto drain loading/unloading mechanism for proper functioning.

FINAL RFIC REMARKS

DO, Material Contractor supply

-----LA-5085

Overhauling of motors (11 KW, Qty-02) as following: -

- (a) Record Insulation of motor, both prior to commencement and post completion of routines.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator by trichloro ethyl / aroma cleaner.
- (d) Dry with hot air blower and apply thin layer of quick drying thermal conductivity varnish.
- (e) Replace both bearings.
- (f) Cover up the motor and assembly and apply paint externally.
- (g) Check conditions of motor terminal strips/post and replace if found cracked.
- (h) Check Insulation of motor and record the values and carryout trials.

FINAL RFIC REMARKS

DO, Material Contractor supply

AIR CONDITIONING CONTROL PANELS AND MOTORS, PAC: M/S HEINEN & HOPMAN ENGINEERING (I) PVT. LTD, KOLKATA (QTY: 03 NOS)

LA-5086

Overhauling of motors (57 KW, 56 T, Qty-03 nos) as following;

- (a) Record Insulation of motor, both prior to commencement and post completion of routines.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator and rotor by trichloro ethyl / aroma cleaner.
- (d) Dry with hot air blower and apply thin layer of quick drying thermal conductivity varnish.
- (e) Replace both bearings.
- (f) Paint internal and external parts of motors
- (g) Change motor terminal lugs.
- (h) Change motor terminal cover gasket
- (j) Renew terminal cover screw
- (k) Check and carryout trials.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5087

Overhaul following motor and calibrate overload relays by using current injection tester.

Description	Capacity (KW)	Nos	OLR rating
(a) ATU Motor (1,2,3 & 4)	7.5	04	9-13A (04)
(b) FCU Motors	0.55	07	1 -2.5A (07)
(c) AC Plant Chilled water circulating pump Motor (Fwd) & (Aft)	9.3	02	16-24A (02)
(d) AC Plant Sea Water Pump Motor 1 & 2	9.3	02	16-24A (02)

FINAL RFIC REMARKS

DO, As per RFIC minutes, Material Contractor Supply.

LA-5088

Calibration of following pressure & temperature switches and proving of feeds to IPMS: -

- (a) HP switch - 03nos
- (b) LP switch - 03 nos
- (c) Sea water differential Pressure switch - 03 nos
- (d) Antifreeze temp cut out - 03 nos
- (e) CR 75% Thermostat - 03 nos
- (f) CR 50% Thermostat - 03 nos
- (g) Cooling thermostat - 03 nos
- (h) Low compressor oil level - 03nos
- (j) Oil filter clogging indication - 03nos

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate. Material Contractor Supply

LA-5089

Calibration of 03 nos Voltmeters (0-500 V), Ammeters (0-900 A).

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate.

LA-5090

Calibration of Soft starters for all three control panels.

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate.

REF PLANT CONTROL PANEL (M/S HEINEN&HOPMAN ENGINEERING (I) PVT LTD, KOLKATA) COMPRESSOR MOTOR- 11 KW - 02 NO. (M/S HAVELLSLAFERI) SEA WATER PUMP MOTOR - 2.2KW - 02 NO. (M/S NARHARI), COOL ROOM MOTOR-0.19KW- 2 NO, COLD ROOM MOTOR-0.35KW- 2 NO (M/S ELCO)

LA-5091

Overhaul following motor and control panel. Calibrate overload relays by using current injection tester and calibrate timer relays.

Description	Capacity	Qty	OLR rating
(a) Ref Plant Compressor Motor (Fwd) & (Aft)	11 KW	02	16-24A
(b) Ref Plant Sea Water Condenser Pump Motor 1 & 2	2.2 KW	02	4-6A



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

(c) Cool Room Fan Motor (Fwd) & (Aft)	190 W	02	1-1.6A
(d) Cold Room Fan Motor (P) & (S)	350 W	02	1.6-2.5A

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate.

LA-5092

Calibrate the following & calibration certificate to be provided and all feeds to IPMS to be proved: -

- (a) 02 nos HP switch
- (b) 02 nos LP switch
- (c) 02 nos OP switch
- (d) 02 nos Sea water pressure switch
- (e) 01nos Ammeter (0-300 A)

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate

LA-5093

Defrosting and temperature switches to be proved for correct functioning of defrosting system.

FINAL RFIC REMARKS

DO, Material Contractor supply

CALORIFIER (500 LTRS, 36 KW) AND CONTROL PANEL OEM: M/S DENKI ENGINEERING CO, PVT LTD, MUMBAI (QTY: 01 NO)

LA-5094

Dismantle heater banks, de-scale heaters and renew the sealing gaskets as follows:

- (a) Drain the Calorifier completely
- (b) Open the flanges cover of heaters.
- (c) Remove electrical connections and withdraw heater bank from Calorifier casing and remove all foreign deposit from the heater element.

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5095

Overhauling of control panel. Defect components and wiring to be renewed and Temperature regulator and thermostat to be checked and proved for proper functioning.

FINAL RFIC REMARKS

DO, Material Contractor supply.

FM-200 FIXED FIRE FIGHTING SYSTEM OEM: M/S TYCO, UK/MUMBAI (QTY: 01 NO)

LA-5096

Overhaul the alarm indicating cum control panel including remote actuation station. Calibrate all sensors and pressure switches. Prove the system for satisfactory operation including all feeds to IPMS

FINAL RFIC REMARKS

Do through PAC firm. Contractor to provide calibration certificate, Spares CG supply. Material Contractor Supply.

LA-5097

Test and prove all pressure threshold devices for correct operation

FINAL RFIC REMARKS

Do through PAC firm. Contractor to provide calibration certificate, Spares CG supply. Material Contractor Supply.

LA-5098

Check performance of all zones, test, control and power supply cards.

FINAL RFIC REMARKS

Do through PAC firm. Contractor to provide calibration certificate, Spares CG supply. Material Contractor Supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

FIRE DETECTION SYSTEM OEM: M/S TYCO, UK/MUMBAI, TYPE: MINERVA T2000 (QTY: 01 NO)

LA-5099

Overhaul the main units in Wheelhouse and DCHQ and update with latest software version. Check performance in all zones. System to be proved for following call points and detectors: -

- (a) Manual call points (36 Nos)
- (b) Heat detectors (02 Nos)
- (c) Multi sensor smoke/ heat (160 nos)
- (d) Flame detector (06 nos)

FINAL RFIC REMARKS

DO through PAC firm.

WATER MIST SYSTEM, OEM: M/S SEA PLUS COMPANY LTD (PAC M/s TYCO FIRE SECURITY & SERVICES PVT. LTD, THANE)

LA-5100

Overhaul motor (5.5KW) and main unit. Calibrate all sensors and prove the system. Check performance of all zones.

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate.

LA-5101

Calibrate all pressure threshold devices and OLRs (9-13A, 01 No.). Calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

LA-5102

Check performance of all zones, test, control and power supply cards.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

WET CHEMICAL FIRE SUPPRESSION SYSTEM, OEM: M/S ANSUL INCORPORATED MARINE, TYPE: ANSUL R-102 (PAC M/S TYCO FIRE SECURITY & SERVICES PVT. LTD, THANE)

LA-5103

Overhaul and prove the system. Calibrate all pressure threshold devices.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate

FI-FI MONITORING MOTOR AND CONTROL PANEL OEM: M/S FIFI, SWEDEN

LA-5104

Overhaul following motors [415 V (Qty-04) & 230 V (Qty-04)] including renewal of both end bearings. Proper alignment to be done. Motor to be painted. Motor connection box gasket to be replaced.

- (a) Monitor control motor - 04 Nos (1.3A)
- (b) Sea water inlet valve motor - 02 Nos (90 Watt/ 1.5A)
- (c) Sea water outlet valve motor - 02 Nos (1.2A)

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5105

Overhaul control panel and remote operating stations. Carry out functional checks of vertical and horizontal limit switches at firefighting monitor (Funnel deck). Calibrate over load relays. Calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate, Material Contractor Supply

ELECTRIC COOKING RANGE (21 KW), OEM: M/S SUSHAMA& CO, MUMBAI (QTY: 02 NOS)

LA-5106

Overhaul the cooking range (08 Nos hot plates) as follows:



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

- (a) Renew heat proof cables from cooking range terminal to hot plate terminal posts.
 - (b) Renew heat proof cable along with heat proof porcelain sleeves from terminal posts to hot plate elements.
 - (c) Check status of terminal post (renew, if required).
 - (d) Check and calibrate temperature control thermostat.
 - (e) Check heat loss of oven chamber is within limit.
- If not, renew insulation around oven chamber.

FINAL RFIC REMARKS

DO as per RFIC minutes. Material Contractor Supply.

LA-5107

Overhaul control panel and check condition of rotary switch. Renew insulation of oven chamber, check condition of locking handle and renew oven gasket

FINAL RFIC REMARKS

DO Material Contractor Supply

FOOD WARMER (230V, 3KW), OEM: M/S SUSHMA & CO, MUMBAI (QTY: 03 NOS)

LA-5108

Overhaul the Food Warmer and control panel. Calibrate temperature control thermostat and prove for satisfactory operation.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate, Material Contractor Supply.

ELECTRIC CHAPATI MAKING MACHINE, OEM: M/S SUSHMA & CO (QTY: 01 NO)

LA-5109

Overhaul the system as following: -

- (a) Check function of range switches, relays and contactors. Replace if required.
- (b) Check control wiring if found cracked due over heating replace.
- (c) Check wire of heaters and their sleeve if found hard due over heating replace.
- (d) Overhaul motor and control including renewal of bearings, rolling belt, pressing tawa and prove system for satisfactory performance.

FINAL RFIC REMARKS

DO Material Contractor Supply

GALLEY HOT WATER BOILER (CAPACITY – 20 LTRS, 3KW), OEM: M/S SUSHMA & CO (QTY: 01 NO)

LA-5110

Overhaul the galley hot water boiler, tighten all loose connections, de-scale heating elements. Prove boiler for satisfactory operation.

- (a) Check function of range switches and replace the defective switches.
- (b) Check control wiring if found cracked due to overheating replace
- (c) Check wire of hot plate and sleeve. If found hard due over heating, replace it.
- (d) Check end connectors and defective one to be replaced.

FINAL RFIC REMARKS

DO Material Contractor Supply

DEEP FAT FRYER (415 V, 4 KW), OEM: M/S SUSHMA MARINE (QTY: 01 NO)

LA-5111

Remove all heating elements, clean the heaters and terminals chambers, and record the insulation resistance.

FINAL RFIC REMARKS

DO Material Contractor Supply

LA-5112

Clean and check the contacts of Switch, MCB, indicating lamp and thermostats.

FINAL RFIC REMARKS

DO Material Contractor Supply

LA-5113



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Clean and paint the panels with heat resisting paint.

FINAL RFIC REMARKS

DO Material Contractor Supply

LA-5114

Reassemble the parts and check complete unit for insulation resistance before using.

FINAL RFIC REMARKS

DO Material Contractor Supply

GARBAGE DISPOSAL UNIT, OEM: M/S GARBO DRAIN 2000(MOTOR-415V, 3PH,50 HZ, 3 HP)

LA-5115

Overhaul disposal unit including drive motor (1.1KW) and replace all bearings. Overhaul control panel.

FINAL RFIC REMARKS

DO Material Contractor Supply

ELECTRIC WASHER & EXTRACTOR, 415V, 3PH, 50HZ, 23.6KW OEM: M/S ELECTROLUX LAUNDRY SYSTEM AB, SWEDEN, MODEL: T5550N/ N2550E17 (QTY: 02 NO)

LA-5116

Overhaul extractor including motors, check electromagnetic clutch's gap and ensure it is not more than 0.5 mm. Replace V belt.

FINAL RFIC REMARKS

DO, Material Contractor supply.

LA-5117

02 in No. motor protection relay (35-50A) to be calibrated. Overhaul and carry out functional checks of solenoid valve {Solenoid coil TYPE- AS230CS Part No. 042N7601} and water level cut out relay. Check and de-scale heater and thermostat.

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate. Material Contractor Supply

WET GRINDER (CMG 5), MAKE- M/S ESSEMM, QTY- 01 NO.

LA-5118

Overhaul motor and replace both bearings. Renew grinding stone and prove for satisfactory performance.

FINAL RFIC REMARKS

DO Material Contractor Supply

DOUGH KNEADER (DN 10), MAKE- M/S ESSEMM, QTY- 01 NO.

LA-5119

Overhaul the system and replace the deteriorated components/ parts of the Kneader.

FINAL RFIC REMARKS

DO Material Contractor Supply

VEGETABLE CUTTER (VG50- 3PH), MAKE- M/S ESSEMMCORPN, QTY- 01 NO.

LA-5120

Overhaul and prove the system for satisfactory performance. Renew/ replace any deteriorated/ damaged components/ parts.

FINAL RFIC REMARKS

DO Material Contractor Supply

MEAT MINCER (TC8 VEGAS REVERSE), MAKE- M/S SIRMAN SPA, ITALY, QTY- 01 NO.

LA-5121

Overhaul and prove the system for satisfactory performance. Renew/ replace any deteriorated/ damaged components/ parts.

FINAL RFIC REMARKS

DO Material Contractor Supply



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

COMBI STEAMER, 11.2KW (CMP61), MAKE- M/S RATIONAL, GERMANY, QTY- 01 NO.

LA-5122

Inspect the whole system. Check the condition of Heater and steam generator. Check the performance of the system. Renew deteriorated damaged components/ parts.

FINAL RFIC REMARKS

DO Material Contractor Supply

DRYING TUMBLER, 415V,3PH, 50HZ, 25.5KW, OEM: M/S ELECTROLUX LAUNDRY SYSTEM AB, SWEDEN, MODEL: W5250N (QTY: 01 NO)

LA-5123

Overhaul motor (25.5 KW), control panel including de-scaling of heater and functional checks of thermostat. Motor connection box gasket to be replaced. Calibrate overload relay (35-50A) and certificate to be issued.

FINAL RFIC REMARKS

DO. Contractor to provide calibration certificate, Material Contractor Supply

HELO VISUAL LANDING AIDS (HVLA) CONTROL PANEL, HELO MONITORING PANEL AND ASSOCIATED LIGHT FITTINGS (QTY: 01 NO), MAKE: M/S CALZONI, ITALY

LA-5128

Overhaul control panel, dimmers and all lights, dismantle fittings, clean internal part of the light fittings, sensor and replace gaskets, and holders as applicable. Renew defective components etc.

FINAL RFIC REMARKS

DO as per DL SL. Material Contractor Supply

LB-5129

Horizontal roll bar (Make-Calzoni, Model- MK-1) is not working and showing alarms ("drive protection fail", "drive communication fail" and "critical fault active, light is off"). Suspect malfunctioning of Power control unit (PCU)/ PCB defective. {Servo Drive PCB- 01 no, Part no.- D8318743}

FINAL RFIC REMARKS

DO as per DL SL. Material Contractor Supply

HELO STARTING RECTIFIER, RATING: 12 KW 28.5 V DC, OEM: M/S L&T (QTY: 01 NO)

LA-5130

Complete overhauling of Helo starting Rectifier unit and all associated control panels including switch socket boxes to be carried out. Offer the HSR for load trials to ETMA/ETT and certificate to be obtained.

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate, Material Contractor Supply

LA-5131

Following meters to be calibrated and calibration certificate to be provided:

<u>Description</u>	<u>RangeQty</u>	
(a) Volt Meter (AC)	0-500V	01 no.
(b) Volt Meter (DC)	0-500V	01 no.
(c) Ammeter (DC)	0-1000	01 no.

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate, Material Contractor Supply

HELO STARTING CONVERTOR, MG SET FOR ALH, RATING: 10KVA, OEM: M/S L&T (QTY: 01 NO)

LA-5132

Complete overhauling of MG Set (10 KVA) and control panels including switch socket boxes to be carried out. Renew all defective components and Prove for satisfactory operation post overhauling.

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate, Material Contractor Supply



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LA-5133

Overload relay (63-80 A, Qty- 01 No.) to be calibrated and defective one to be replaced.

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate, Material Contractor Supply

LA-5134

Carryout calibration of all meters and submit calibration certificate.

{Voltmeters (0-150v)-01 No

Ammeter (0-100A)-01 No

Frequency Meter (380-420 HZ)-01 No}

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate, Material Contractor Supply

**HELO TRAVERSING SYSTEM AND STARTER PANEL (PDU, HCOS &MCU), QTY- 01, MAKE- M/S
L & T, EBG**

LA-5135

Overhaul all motors (15 KW, Qty-02), control panels, HMI and sensors. Overhaul remote control unit and prove for satisfactory operation.

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5136

Calibrate the overload relays (25- 40 A,02 Nos). Replace defective components.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5137

5 Yearly routine

(a) Check all the electronic components. Defective components to be replaced.

(b) Check all sensors for proper functioning.

FINAL RFIC REMARKS

DO Material Contractor Supply

GLIDE PATH INDICATOR, OEM: M/S AMA PVT LTD, MUMBAI, TYPE: SBI (QTY: 01 NO)

LA-5138

Overhaul the GPI and carryout functional tests of the equipment and prove for satisfactory performance.

FINAL RFIC REMARKS

DO, Material Contractor supply.

WINDOW WIPER, OEM: M/S WYNN MARINE, TYPE: STRAIGHT LINE (QTY: 09 NOS)

LA-5139

Overhaul 09 nos window wiper motors, check bearings and gear assembly. Replace wiper blade motor bearings, sealed bearings & gear assembly and also lubricate it. Carry out functional check of solenoid valve and replace defective one. Replace wiper blades. Prove window wipers post overhauling for satisfactory function.

FINAL RFIC REMARKS

DO Material Contractor Supply

RO PLANT (WATER MAKER SERIEL SAILOR) OEM:M/STECNICOMAR (QTY- 02 NOS)

LA-5140

Calibrate hand conductivity meter, probe and calibration certificate to be issued.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

LA-5141

Calibrate all pressure switches (HP switch-100 bar, LP switch-6 bar) and calibration certificate to be



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

issued.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

LA-5142

Check and replace PT-60 & Potentiometer, (if required).

FINAL RFIC REMARKS

DO Material Contractor Supply

LA-5143

Carry out overhauling of motors (5.5KW-02 Nos, 0.75KW-02 Nos.), starter panel and observe starting & running current.

FINAL RFIC REMARKS

DO as per RFIC minutes

WHR PLANT, OEM: M/S SONDEX GERMANY (QTY: 02 NOS)

LA-5144

Overhaul motors as follows: -

- (a) Record Insulation Resistance prior opening the motor.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator windings and rotor.
- (d) Apply thin layer of thermal, conductive quick drying varnish.
- (e) Heat up the windings by using hot air blower/oven baking.
- (f) Replace both end bearings.
- (g) Box up the motor and apply heat resistance paint externally.
- (h) Check the condition of motor terminal strip/post and replace if found cracked / damaged.
- (j) Check Insulation and record the value.

(a) Distiller Pump	1.1 KW	02 Nos.
(b) Sea Water Pump	7.5 KW	02 Nos.

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5145

Calibrate overload relays using CIT. Overhaul the control panel, calibrate salinometer and overload relays (Qty- 02 nos.). Calibration certificate to be provided

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

LA-5146

Check the function of 02 nos. solenoid valves and UV lamp of UV sterilizer.

FINAL RFIC REMARKS

DO Material Contractor Supply

FIN STABILIZER, MODEL: DD901831, OEM: M/S L&T, MUMBAI (QTY: 02 NOS)

LA-5147

Overhaul electric hydraulic pump motors (33 KW, 02 Nos) and Stabilizer greasing motors (0.75 KW, 02 Nos) as follows:

- (a) Record Insulation Resistance prior opening the motor.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator winding and rotor.
- (d) Apply thin layer of thermal, conductive quick drying varnish.
- (e) Heat up the winding by using hot air blower/oven baking.
- (f) Replace both end bearings.
- (g) Box up the motor and apply heat resistance paint externally.
- (h) Check the condition of motor terminal strip/post and replace if found cracked/damaged.
- (j) Check Insulation and record the value in MRC and carryout trials. (Should be more than 1 M Ohm).



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5148

Overhaul field control panel, remote display and control panel at Bridge and MCR. Calibrate over load relays (32-88 A- 02 nos, 1-2.75A- 02 nos) and calibration certificate to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

HYDRAULIC SLIDING DOOR MOTOR, 0.75 KW OEM: M/S WINEL, NETHERLANDS (QTY: 01 NOS)

LA-5149

Overhaul including varnishing /oven baking 01 in No. motor. Renew both end bearings and proper alignment to be done. Motor to be painted. Motor connection box gasket to be replaced.

FINAL RFIC REMARKS

DO as per RFIC remarks

LA-5150

Overhaul starter control panel and remote control box at DCHQ & Bridge.

FINAL RFIC REMARKS

DO

LA-5151

Calibrate proximity limit switches and overload relays (1.5 to 2.5A, Qty- 01 No.). Defect components to be renewed, calibration certificate from authorized lab to be issued and prove system operation from Local, DCHQ and Bridge.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply

MARINE INCINERATOR CONTROL PANEL, OEM: M/S IDE, SPAIN, TYPE: DELTA –MIRLA-18

LA-5152

Overhaul motors {Ventilator fan motor- 7.5 KW (01 No) Sludge pump-0.18 KW (01 No), Booster pump motor-0.43 KW (01 No)}. Overhaul damper and starter panel. Calibrate over load relays (1.8-2.7A)

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5153

Functional test of Marine Incinerator to be carried out post overhauling.

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5155

Overhaul the motor (55 KW,02 Nos) as followings: -

- (a) Record Insulation Resistance prior opening the motor.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator windings and rotor.
- (d) Apply thin layer of thermal, conductive quick drying varnish.
- (e) Heat up the windings by using hot air blower/oven baking.
- (f) Replace both end bearings.
- (g) Cover up the motor and apply heat resistance paint externally.
- (h) Check the condition of motor terminal strip and replace, if found cracked / damaged.
- (j) Check Insulation (should be more than 1M Ohm) and record the value in MRC and carryout trials.

FINAL RFIC REMARKS

DO as per RFIC minutes



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LA-5156

Overhaul the control panel, master controller unit calibrate overload relay (75-90A, 02 Nos) and prove for satisfactory performance. Provide calibration certificate.

FINAL RFIC REMARKS

DO, Material Contractor supply

ARTICULATED CRANE, OEM: M/S ZHENJIANG WEST MARINE EQPT CO LTD, TYPE: TKC2090 (QTY: 02 NOS)

LA-5157

Overhaul Motor (37 KW,02 Nos) and Electro Magnetic Brake assembly and system to be proved.

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5158

Overhaul the starter panel, defective components to be renewed. Check functioning of limit switches and defective limit switches to be renewed. Prove system for satisfactory operation.

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5159

Clean and paint control panel. Calibrate overload relays (40-51A (02), oil level switches and temp. sensors. Renew defective components, if any. Calibration certification to be provided.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate. Material Contractor Supply.

RHIB, OEM: M/s NOR SAFE (Qty:02nos)

LA-5160

Overhaul the RHIB operator panel, battery charging panel, dynamo and starter motor (Make: M/s Bosch, Germany, Model: 12VBPZ)

FINAL RFIC REMARKS

DO Material Contractor Supply

LB-5161

Performance of Port and Stbd RHIB (M/s Norsafe, Mako 655 MKI Stern drive, K4-D) unsatisfactory view Engine not coming in neutral position intermittently upon throttle lever command. Engine RPM also not increasing/ decreasing as per command from throttle lever. Suspect Shift actuator malfunctioning or system software corrupted. Defective components to be repaired/ replaced. Throttle lever to be calibrated and system software to be updated. Both RHIB to be proved for satisfactory operation.

FINAL RFIC REMARKS

DO as per DL SL. Material Contractor Supply

SUBMERSIBLE PUMP (40TPH& 20 TPH) SOCKET AND CONTROL PANEL, MAKE- M/S MODI, THANE, MUMBAI, QTY- 04 NOS.

LA-5162

Overhaul the complete submersible pump by removal of sealed bearing including control panel and sockets.

FINAL RFIC REMARKS

DO Material Contractor Supply

TEST PANEL, MAKE- M/S L & T, QTY- 01 NO.

LA-5163

Carry out overhauling of panel, and calibrate all meters. Provide calibration certificate.

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate, Material Contractor Supply

FUEL OIL PURIFIER, MAKE-GEA WESTFALIA SEPERATOR, GERMANY,02 NOS

LA-5164



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Overhaul the motor (3 KW,02 Nos,5.5 KW,02 Nos) and calibrate all OLRs (3.5-5A,02 Nos, 06-10A,02 Nos), display operator unit and pressure switches. De-scale the heaters and check operation for satisfactory performance.

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate

FUEL OIL TRANSFER PUMP MOTOR, MAKE-BEVI ELECTRICAL MOTOR,02 NOS

LA-5165

Carry out overhauling of motor (4 KW,02 Nos)

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5166

Carry out overhauling of starter panel, remote control box and calibrate OLRs (06-10 A,02 Nos), if required replace.

FINAL RFIC REMARKS

DO. Contractor to provide calibration certificate. Material Contractor Supply

LA-5168

Check all the contactors fro satisfactory operation (renew if required.). Replace fuse/MCBs/indication lamps/LED with correct rating if defective.

FINAL RFIC REMARKS

DO Material Contractor Supply

LUB OIL TRANSFER PUMP AND CONTROL PANEL-W22 PREMIUM, M/s WEG &L&T,02 OTY

LA-5169

Carry out overhauling of motor (7.5 KW,02 Nos)

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5170

Carry out overhauling of starter panel, remote control box and calibrate OLRs (09-15 A,02 Nos), if required replace.

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate. Material Contractor Supply

FIRE & GS PUMP MOTOR AND STARTER PANEL, M/S DESMI INDIA LLP & ACE DYNAMIC, VIZAG, 02 NOS.

LA-5172

Overhaul the motor (37 KW,02 Nos) as follows: -

- (a) Record Insulation Resistance prior opening the motor.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator windings and rotor.
- (d) Apply thin layer of thermal, conductive quick drying varnish.
- (e) Heat up the windings by using hot air blower/oven baking.
- (f) Replace both end bearings.
- (g) Cover up the motor and apply heat resistance paint externally.
- (h) Check the condition of motor terminal strips and replace, if found cracked / damaged.
- (j) Check Insulation (should be more than 1M Ohm) and record the value in MRC and carryout trials.

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5173

Overhaul the control panel. Defective contactors and solenoids are to be renewed. Calibrate all OLRs (30-50A, 02 nos.).

FINAL RFIC REMARKS



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO as per RFIC minutes. Contractor to provide calibration certificate. Material Contractor Supply

LA-5174

Shock/ vibration mounting to be renewed as per sample.

FINAL RFIC REMARKS

DO Material Contractor Supply

BILGE & BALLAST PUMP MOTOR & STARTER PANEL, MAKE- M/S DESMI INDIA LLP & ACE DYNAMIC, VIZAG, 02 NOS.

LA-5175

Overhaul the motor (37 KW,02 Nos) as follows: -

- (a) Record Insulation Resistance prior opening the motor.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator windings and rotor.
- (d) Apply thin layer of thermal, conductive quick drying varnish.
- (e) Heat up the windings by using hot air blower/oven baking.
- (f) Replace both end bearings.
- (g) Cover up the motor and apply heat resistance paint externally.
- (h) Check the condition of motor terminal strips and replace, if found cracked / damaged.
- (j) Check Insulation (should be more than 1M Ohm) and record the value in MRC and carryout trials.

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5176

Overhaul the control panel. Defective contactors and solenoids are to be renewed. Calibrate all OLRs (30-50A, 02 nos.).

FINAL RFIC REMARKS

DO. Contractor to provide calibration certificate. Material Contractor Supply.

BILGE PUMP MOTOR & STARTER PANEL, MAKE- M/S DESMI INDIA LLP & ACE DYNAMIC, VIZAG, 02 NOS.

LA-5178

Overhaul the motor (37 KW,02 Nos) as follows: -

- (a) Record Insulation Resistance prior opening the motor.
- (b) Dismantle motor and withdraw rotor.
- (c) Clean stator windings and rotor.
- (d) Apply thin layer of thermal, conductive quick drying varnish.
- (e) Heat up the windings by using hot air blower/oven baking.
- (f) Replace both end bearings.
- (g) Cover up the motor and apply heat resistance paint externally.
- (h) Check the condition of motor terminal stripS and replace, if found cracked / damaged.
- (j) Check Insulation (should be more than 1M Ohm) and record the value in MRC and carryout trials.

FINAL RFIC REMARKS

DO as per RFIC minutes

LA-5179

Overhaul the control panel. Defective contactors and solenoids are to be renewed. Calibrate all OLRs (30-50A, 02 nos.).

FINAL RFIC REMARKS

DO. Contractor to provide calibration certificate. Material Contractor Supply

LA-5180

Shock/ vibration mounting to be renewed as per sample.

FINAL RFIC REMARKS

DO Material Contractor Supply



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

OILY BILGE WATER SEPARATOR (0.75 KW), MAKE- M/S ENVIRONMENTAL PROTECTION ENGINEERING, SA, QTY- 01NO.

LA-5182

Calibrate OLRs (1.6-2.5A, 02 Nos.).

FINAL RFIC REMARKS

DO Contractor to provide calibration certificate.

LA-5183

Clean photo sensor.

FINAL RFIC REMARKS

DO

HOT WATER CIRCULATING PUMP MOTOR, MAKE- M/S DESMI, QTY- 01 NO.

LA-5184

Carry out overhauling of motor (03 KW)

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5185

Carry out overhauling of starter panel and calibrate OLRs (4.5-7.5A, 01 No.) and thermostat.

FINAL RFIC REMARKS

DO. Contractor to provide calibration certificate. Material Contractor Supply

SHORE SUPPLY CABLE ROLLER MOTOR AND CONTROL PANELS- 1.5 KW, MAKE- M/S L& T, EBG, QTY- 02 NOS.

LA-5187

Carry out overhauling of motor (1.5 KW, 02 Nos), gear box and brake assembly.

FINAL RFIC REMARKS

DO as per RFIC minutes.

LA-5188

Calibrate overload relays (3.5-5A,02 Nos) by CIT. Provide calibration certificate.

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate.

LA-5189

Check internal/ external parts of control panel for corrosion and deterioration, clean and paint control panel.

FINAL RFIC REMARKS

DO, Material Contractor supply

LA-5190

Replace control panel gasket.

FINAL RFIC REMARKS

DO, Material Contractor supply

RADAR 'X' & 'S' BAND, OEM: M/S SPERRY MARINE, MODEL: 65612A (PAC: M/s MEPL, Mumbai)

LA-5191

Carry out complete overhauling of the man aloft switches, inter switch unit, scanner motor and replace bearing.

FINAL RFIC REMARKS

DO through PAC firm. Spares CG supply. Material Contractor Supply

LA-5192

02 yearly routines

Check lubrication of turning unit main gear under normal operating conditions and high ambient



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

temperatures

FINAL RFIC REMARKS

DO through PAC firm. Spares CG supply. Material Contractor Supply

LA-5193

05 yearly routines

- (a) Replace battery in processor.
- (b) Replace 'S' band gear box assembly.
- (c) Replace rotating joint assembly in S band radar turning unit.

FINAL RFIC REMARKS

DO through PAC firm. Spares CG supply. Material Contractor Supply

ELECTRO-OPTICAL SURVEILLANCE SYSTEM OEM: M/S IAI, TAMAM, TYPE: MINI-POP(QTY:01NO)

LA-5194

Nitrogen Purging of both sections i.e. camera and turret to be undertaken at the last phase of refit.

FINAL RFIC REMARKS

DO, Material Contractor supply

DGPS (02 nos) AND GLONASS SYSTEM (01 no), OEM: M/S FURNO& M/SJMC, TYPE: GP170& DG-500

LB-5195

Intermittent poor antenna reception on GLONASS system. Defect to be rectified and performance check of antenna to be carried out for satisfactory operation.

FINAL RFIC REMARKS

DO. Material Contractor Supply

WEATHER STATION, OEM- M/S ELCOME MARINE, TYPE EWSMS2.2

LB-5196

Weather station display not showing wind speed and direction. Suspect antenna sensor unit malfunctioning. Defect to be rectified and system to be proved.

FINAL RFIC REMARKS

DO. Material Contractor Supply

LC-5197

Relocation of ultrasonic wind sensor from shadow zone to upper mast location to avoid interference between antenna against approved As & AS vide CGHQ letter TS/300/63/WSDI-VRH dated 04 Jul 22.

FINAL RFIC REMARKS

DO all inclusive. Spare & material Contractor Supply. All in way jobs included. SOW & Bill of material i.a.w. CGHQ approved letter TS/300/63/WSDI-VRH dated 04 Jul 22.

AIS TRANS-RECEIVER, OEM-M/S SAAB, TYPE-R5 SOLID

LB-5198

High VSWR error and external EPFS lost showing in AIS display unit intermittently. Performance check of the AIS to be carried out for smooth functioning of the system.

FINAL RFIC REMARKS

DO. Material Contractor Supply

MULTI CHANNEL VOICE RECORDER, OEM: M/S ELCOME INTEGRATED, TYPE: V2.0(QTY: 01 NO)

LB-5199

Audio recording function of Sunair HF Tx/Rx RT-9600E not working due open circuit in audio cable. 10 Mtr O2 core screened cable to be layout from HF set to MCVR unit. Job including removal and refitment of ceiling panel at VHF room.

FINAL RFIC REMARKS



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

DO. Material Contractor Supply

INFRARED COMMUNICATION SYSTEM OEM: M/S TENSOSYS TYPE: EDGE

LA-5200

Overhaul the equipment along with accessories. Damaged component to be replaced/renewed as per sample.

FINAL RFIC REMARKS

DO. Material Contractor Supply

INTERCOMS TALK BACK SYSTEM OEM: M/S VINGTOR, TYPE SPA- 400 V2 (PAC M/s Maritronics, Chennai)

LA-5201

Overhaul complete system and check for satisfactory operation.

Navigation intercom-11 Nos (01 Master)

Armament intercom-07 Nos (01 Master)

Machinery Intercom-12 Nos (01 Master)

Hello intercom-09 Nos (01 Master)

FINAL RFIC REMARKS

DO

AUTO TELEPHONE SYSTEM EXCHANGE, OEM: M/S VINGTOR, TYPE:ACM- 144-V10

LA-5202

Overhaul complete system and check all telephone lines/cables, junction boxes and replace defective components for satisfactory operation.

FINAL RFIC REMARKS

DO. Material Contractor Supply

LB-5203

04 Nos digital telephone (Make: Vingtor, Stentofon) at various places not working. Suspect control PCB defective. PCB to be repaired and system to be proved.

FINAL RFIC REMARKS

DO. Material Contractor Supply

MB/ SRESYSTEM, OEM: M/S VINGTOR, TYPE: SPA-400 V2 (QTY: 02 NO) (PAC M/s Maritronics, Chennai)

LA-5204

Overhaul the equipment and accessories located at various positions. Check the performance of MB/SRE amplifiers, speakers and replace defective parts if required.

FINAL RFIC REMARKS

DO. Material Contractor Supply

CCTV, OEM: M/S WISKA, TYPE: D20EX/IP, D5534, CH-SW240/FL5(VARIOUS LOCATION)

LA-5206

Overhaul horizontal & vertical motors and mechanism. Replace the water tube and wipers. (05 Nos PTZ Cameras are fitted with Motors)

FINAL RFIC REMARKS

DO, Material Contractor supply

LB-5207

Foxle and Quarter deck Camera view not showing on bridge server and showing "connecting" message on display. Suspect CCD camera SMD components deteriorated. To be repaired/replaced.

FINAL RFIC REMARKS

DO. Material Contractor Supply

VDR SYSTEM, OEM: M/S DANELEC, TYPE- DM-100 (PAC M/s MEPL, Mumbai)

LA-5208

An annual performance test (APT) is to be carried out. The APT must be done using the APT tool.

FINAL RFIC REMARKS



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120
Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302
Type of tender: Limited Tender

DO

LA-5209

05 Yearly routine

(a) Battery pack located in the DAU to be replaced as per sample. (4 yearly routines)
Replace the cooling fan. (4 yearly routines)

FINAL RFIC REMARKS

DO. Material Contractor Supply

EPIRB, OEM: M/S SAILOR THRANE&THRANE, TYPE- SGA 406-II (01 Nos)

LA-5210

05 Yearly routine

(a) Carry out annual test and inspection of the set.
Carry out shore based maintenance i.a.w MSC/Circ.1039 of IMO. (5 yearly routines)

FINAL RFIC REMARKS

DO through PAC firm

MOTORS

LA-5211

Overhauling of motors and their control panels includes following: -

- (i) Renewal of bearings.
 - (ii) Cleaning of stator/rotor and varnishing.
 - (iii) Internal and external repairing of motor yoke.
 - (iv) Examination of rotor, impeller, shaft, bearing housing and impeller non driven end (in case of ventilation motors) for flaws, cracks and corrosion.
 - (v) Removal and renewal of bearing seals and gasket.
 - (vi) Repair of terminal box.
 - (vii) Replacement of defective nut and bolts.
 - (viii) Overhauling of EM brake assembly and associated gear in case of windlass and capstan.
 - (ix) External painting of motor as per paint scheme.
 - (x) Trials of motors in totality post installation.
 - (xi) Overhauling of control panel fitted with Star Delta starter includes renewal of contactor kit (to be supplied by Contractor) irrespective of its condition.
 - (xii) Overhauling of control panels will include renewal of terminal strips/connectors.
- Overhauling of following motors with EM brakes (415V, 3 Ph, 50 Hz) and calibration of OLRs. Calibration certificate to be provided.

SI	Description	Capacity (in KW)	Qty (in Nos)	OLR	Location
(a)	Anchor Capstan	16/22 KW	02	40- 63A	Provision Store
(b)	Mooring Capstan	15 KW	01	40- 63 A	PCR
(c)	Accommodation ladder	05 KW	02	6.3- 10 A	Q Deck

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate

LA-5212

Overhaul of following motors (415V, 3 Ph, 50 Hz) and control panel. Calibration of OLRs and pressure cut outs. Calibration certificate to be provided.

SI	Description	Capacity (in KW)	Qty (in nos)	OLR	Location
(a)	KFWA Pump Motor (P) & (S)	1.7	02	3.5-5A (02)	Boat Deck
(b)	Fresh Water Hydrophore Pump Motor (Fwd) & (Aft)	15	02	18-25A (02)	Q Deck
(c)	RAS/FAS Winch Motor(P) & (S)	2.2	02	2.5-4A (02)	PCR
(d)	Helo Hanger Door Motor	3.0	01	4.5-7.5A	Q. Deck



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

				(01)	
(e)	AVCAT pump motor	7.5	02	9-15A(02)	Ref & AC Compt
(f)	Ventilation fans, EDG-3.7KW, BT-3.7 KW, Laundry- 1.5KW, WC-0.37 KW (02Nos), ASP- 1.5KW, AVCAT-1.1(02Nos.), Galley supply- 3.7KW, Galley Exhaust- 3.7KW, Fwd AMR-1.5KW(02Nos.), Aft AMR-1.5KW(02Nos.), DG Room Supply-15KW (02 Nos.), DG room exhaust-7.5KW(02Nos.), Engg. Room supply-11KW(02Nos.), 7.5KW(02Nos.), Engine Room Exhaust-7.5KW(02Nos.), STP- 0.37KW, STP Ex- 0.37KW, NVK Wash1- 0.37KW, NVK2 WC- 0.37KW, Prov. St.-0.37KW)	15	02	18-25A (02)	VSP-6 & VSP-7
		11	02	16-24A(02)	VSP-8 & VSP-9
		7.5	06	9-15A(06)	VSP-6,7,8 & 9
		3.7	04	7-10A(04)	VSP-5 & VSP-11
		1.5	06	2.5-4A(06)	VSP-13,14, 15 &16
		1.1	02	2.5-4A(02)	VSP-13
		0.37	07 Nos.	1-1.6A(07)	

FINAL RFIC REMARKS

DO as per RFIC minutes. Contractor to provide calibration certificate.

MISCELLANEOUS

LB-5214

Provision store refrigerator (Make- Blue Star, Capacity- 450 ltrs, Model- RFSD640A) is not working view following observed:

- (a) Cooling is not observed below 15° C
- (b) Compressor is making abnormal noise
- (c) Cooling fan is not working
- (d) Temp. regulator (SZ-7524-P) is not functioning. Refrigerator is to be repaired and proved for satisfactory operation. Inway job includes removal and refitment of refrigerator and its base.

FINAL RFIC REMARKS

DO. Material Contractor Supply

LB-5216

Diving air compressor engine (Make- Yanmar, Model- MCH161DYERGO) not getting started as voltage regulator/ rectifier unit is defective and cable connector worn out. Defective unit to be replaced and compressor to be proved for normal operation.

FINAL RFIC REMARKS

DO. Material Contractor Supply

LB-5218

Calibration of following test equipments:

- (a) Multimeter (Make- Fluke) – 01 no.
- (b) Insulation Tester (Make-Meco, Model- MC-941, 500V/1000MΩ)- 01 No.
- (c) Tong tester (Make- Fluke) - 01 no.

FINAL RFIC REMARKS

DO, Contractor to provide calibration certificate

LB-5219

30 Nos. 20A, non-water tight switches at various places are observed defective view deteriorated and broken. Defective switches are to be replaced with high quality of same specification.

FINAL RFIC REMARKS

DO, Material Contractor supply

LB-5220

20 nos. 16A non water tight socket with switches at various places are observed defective view



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

deteriorated and broken. Defective switches are to be replaced with high quality of same specification.

FINAL RFIC REMARKS

DO, Material Contractor supply

LB-5221

06 nos. 15A water tight ceremonial switch sockets are observed deteriorated and cracked. Defective switch sockets are to be replaced as per sample.

FINAL RFIC REMARKS

DO, Material Contractor supply.

MISCELLANEOUS

LC-5222

Provision of visual indication for laundry equipment (washer, dryer and iron box) in DCHQ and outside laundry. As & As approved vide CGHQ letter TS/300/63/VILE dated 30 Aug 22 and CGRHQ (W) letter 300/76/OPV/SMP/As & As dated 13 Sep 22. PIN (NE/OL-01/2020-B/111 dated 30 Aug 22)

Scope of work: -

- (i) Visual indication (red and Green) for all laundry equipment (Washer, dryer & iron box)
- (ii) Fitment of visual indication panel outside laundry and inside DCHQ
- (iii) Each panel to consist of 06 indication lamps (01 red lamp and 01 green lamp for each equipment) Red for indicating "SWITCHED ON" and Green for indicating "SWITCHED OFF"
- (iv) 02 Junction box to be provisioned for power supply to Indication panels
- (v) Cabling in way jobs as per requirement of ship.

FINAL RFIC REMARKS

DO all inclusive. Spare & material Contractor Supply. All in way jobs included. SOW & Bill of material in accordance with CGHQ approved letter TS/300/63/VILE dated 30 Aug 22.

LC-5223

Integration of flood alarm system with Main Broadcast.

Note: PIN- NW/OL/05/2020-B/101 vide CGHQ LETTER TS/300/63/FAS dated 04 Jul 22.

Scope of work: -

- (a) laying of cable from IPMS RTU-3 at Fwd Aux. room to DCHQ (24 core cables, Approx. length- 75Mtrs.)
- (b) Laying of cable from IPMS RTU-4 at DG room to DCHO (24 core cables, Approx. length- 55Mtrs.)
- (c) Laying of cable from DCHQ TO MCR (24 core cable, Approx, length-2X55=110Mtrs.)
- (d) Laying of cable from DCHQ to Wheel house (2 core cables, Approx length -130 Mtrs.)
- (e) Laying of cable from DCHQ to MB/SRE (24 core cables, approx. length- 75 Mtrs.)
- (f) Fitment of 4 nos. junction boxes
- (g) Routing of cable through cables glands including gland packing
- (h) Fitment of flood alarm indication panel in DCHQ, MCR and Wheel house including removal, fitment of panels & securing of glands and cables.

FINAL RFIC REMARKS

Do all inclusive spare & material Contractor Supply All in way jobs including. SOW & Bill of material i.a.w. CGHQ approved letter TS/300/63/FAS dated 04 Jul 22

LC-5224

Modification on Hello Starting Rectifier (Make - M/S Static Transformer)

Upgrade the capacity of existing Hello Starting Rectifier which is suitable for ALH MK-I from 1200 Amps to 1500 Amps with existing cable to make HSR suitable for ALH MK-III aircraft. Inway job includes modification of Hello starting rectifier by tuning, setting and replacement of new control card. Post upgradation system to be proved for satisfactory operation. (PIN: - AN/OL-01/2022-A/118 dated 03 Oct 22) vide CGHQ letter TS/300/63/HSR-SCT dated 03 Oct 22.

FINAL RFIC REMARKS

Do all inclusive. Spare & material Contractor Supply. All in way jobs including. SOW & Bill of material i.a.w. CGHQ approved letter TS/300/63/HSR-SCT dated 03 Oct 22.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

LB-5225

EOS camera (Make: IAI Tamam, Model: Minipop) not operating from standby to operational mode and "PU ENC fail and DVR boot error" are being displayed on screen. Suspect Azimuth encoder motor drive unit defective. Defect to be rectified and system to be proved. Inway job includes removal and fitment of camera assembly from mast.

FINAL RFIC REMARKS

Do in conjunction with LA 5194

LB-5226

Following defects observed on M7 V/UHF Tx/Rx (Make: M/s ECIL, Hyderabad): -

- a) Tx/Rx 1&2 showing high VSWR error and PA module fault during transmission. Performance of equipment to be checked and system to be proved for satisfactory operation.
- b) M7 antenna base on both port and stbd mast corroded (Mat-MS, Dia-20 cm, length - 01 mtr) to be replaced as per sample DO through M/S ECIL, Hyderabad

LB-5227

Anemometer (Make: M/s Walker) intermittently showing erratic reading in true and relative mode. Anemometer to be calibrated and system to be proved for satisfactory operation.

FINAL RFIC REMARKS

DO in conjunction with LC-5197)

LB-5228

01 no. FI-FI actuator (Part no. 3000666-05. Model- ITQ 0500 230 V) of port side suction valve not functioning view motor gear not engaging with valve gear. Actuator alongwith valve assembly to be overhauled and defect to be rectified. Inway job includes removal and re-fitment of same. On completion satisfactory operation of the same with the system from remote mode to be proved.

FINAL RFIC REMARKS

DO in conjunction with LA-5104 Mat Contractor Supply. Spares CG supply.

LB-5229

Marine incinerator (Make- M/s Detegasa, Model - DELTA IRLA - 18E) observed not operating and alarm "Flame failure" is displaying on control display. Suspect flame initiating assembly defective. Same to be repaired and on completion satisfactory operation of the system is to be proved.

FINAL RFIC REMARKS

DO. Mat Contractor Supply. Spares CG supply.

LB-5231

03 Nos. Microphones (Make-Holmco, P-66/10) not working at Foxle, Q/deck and Helo Hanger. Suspect Microphone diaphragm defective. Microphone to be repaired/renewed as per sample.

FINAL RFIC REMARKS

DO in conjunction with LA-5204. Spare CG supply.

LB-5232

03 Nos. Microphones (Make-Primo, ETC - 1 TB) are not working at OPS Room, MSB1 and MCR. Suspect Microphone diaphragm defective. Microphone to be repaired/renewed as per sample

FINAL RFIC REMARKS

DO in conjunction with LA-5204. Spare CG supply.

LB-5233

Following defects observed on CCTV Camera system (Make: M/s Wiska): -

- a) 05 Nos. CCTV Camera (data & control) cable deteriorated at Boat deck (P&S), Helo Deck, Foxle and Q/Deck resulting in intermittent malfunctioning movement of camera though PTZ control. Camera cable to be renewed as per sample (Type: CAT 5E, approx. 300Mtr)
- b) CCTV camera at DG Compartment and Gyro Room are not working. Suspect control PCB defective. Same defect to be rectified and proved for satisfactory operation.
- c) 03 nos. CCTV camera base at Foxle, Boat Deck (Port & Stbd) deteriorated. Camera base to be



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

renewed as per sample (Mat-MS, Dia-4")

d) CCTV camera MFD (Make- HP TFT 27", Model-E271I) at Bridge is getting switched off intermittently. Suspect power supply PCB is malfunctioning. Same to be repaired and defect to be rectified.

FINAL RFIC REMARKS

DO except sl (a). Mat Contractor Supply. Spare CG supply.

LB-5234

Following defect are observed on SPT (Make: M/s Marine Radio Co. Ltd, Model: LC -814C) system:

- (i) 05 nos. SPT hand set cord wire at weather deck deteriorated
- (ii) 02 nos. selector switch observed defective at weather deck
- (iii) 05 nos. flashing light at machinery compartment not working.

FINAL RFIC REMARKS

DO. Mat Contractor Supply. Spare CG supply.

LB-5236

Poor reception observed from 03 Nos. IR Communication Combi box unit (Make M/S Edge Integrated Communication System, Model: ECBU) at Foxle, Bridge and Bridge Top. Suspect received Control Unit malfunctioning. Defect to be rectified and system to be proved

FINAL RFIC REMARKS

DO. Mat Contractor Supply. spare CG supply

LB-5239

IBS feed (feed from Gyro, GPS, Log, Echo Sounder) from Bridge not shown in all 05nos. MFDs of IPMS. Suspect MOXA network switch defective. Same to be repaired and defect to be rectified.

FINAL RFIC REMARKS

DO. Mat Contractor Supply. Spare CG supply.



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

SUMMARY OF ELECTRICAL DEFECT LISTS - ICGS VIKRAM

22.4. Electrical Defect List : **LA-5001 to LB-5239**

DL Deleted : LA 5007, LA 5047, LA 5049, LA 5056, LA 5062, LA 5124, LA 5125, LA 5126, LA 5127, LA 5154, LA 5167, LA 5171, LA 5177, LA 5181, LA 5186, LA 5205, LA 5213, LB 5215, LB 5217, LB 5230, LB 5235, LB 5237, LB 5238.

NOTE

- (i) Please note that where ever "Contractor Supply" mentioned it means "contractor supply".
- (ii) Venders not to quote the following DL's as this DL is already covered in subsequent DL's which are specified as below;

DL Covered & Clubbed with other DL:

- i) LA 5079, LA 5080, LA 5081, & LA 5082 are included in LA 5078 as package
ii) LA 5097 & LA 5098 are included in LA 5096 as package
iii) LA 5101 & LA 5102 are included in LA 5100 as package
iv) LA 5141, LA 5142 & LA 5143, are included in LA 5140 as package
v) LA 5192 & LA 5193 are included in LA 5191 as package

DL to be done inconjunction with Other DL.

- i) LB 5225 is to be done inconjunction with LA 5194
ii) LB 5227 is to be done inconjunction with LC 5197
iii) LB 5228 is to be done inconjunction with LA 5104
iv) LB 5231 & LB 5232 are to be done inconjunction with LA 5204

DL for which are to be completed with Letter References:

- i) LC 5222- DO all inclusive. Spare & material Contractor Supply. All in way jobs included. SOW & Bill of material in accordance with CGHQ approved letter TS/300/63/VILE dated 30 Aug 22.
- ii) LC 5223- Do all inclusive spare & material Contractor Supply All in way jobs including. SOW & Bill of material i.a.w. CGHQ approved letter TS/300/63/FAS dated 04 Jul 22
- iii) LC 5224- Do all inclusive. Spare & material Contractor Supply. All in way jobs including. SOW & Bill of material i.a.w. CGHQ approved letter TS/300/63/HSR-SCT dated 03 Oct 22.



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Section VI – ILLUSTRATIVE RATE SHEET

SR NO	DESCRIPTION	UNIT	QTY	UNIT RATE IN RS	SAC /HSN CODE	GST %	TOTAL WITHOUT TAXES
1	HA-1001	AU	1				
2	HA-1002	AU	1				
3	HA-1003	AU	1				
4	HA-1004	AU	1				
5	HA-1006	AU	1				
6	HA-1007	AU	1				
7	HA-1008	AU	1				
8	HA-1013	AU	1				
9	HA-1015	AU	1				
10	HA-1016	AU	1				
11	HA-1019	AU	1				
12	HA-1022	AU	1				
13	HA-1023	AU	1				
14	HA-1024	AU	1				
15	HA-1026	AU	1				
16	HA-1027	AU	1				
17	HA-1028	AU	1				
18	HA-1029	AU	1				
19	HA-1030	AU	1				
20	HA-1031	AU	1				
21	HA-1032	AU	1				
22	HA-1033	AU	1				
23	HA-1034	AU	1				
24	HA-1035	AU	1				
25	HA-1036	AU	1				
26	HA-1037	AU	1				
27	HA-1038	AU	1				
28	HA-1039	AU	1				
29	HA-1040	AU	1				
30	HA-1041	AU	1				
31	HA-1042	AU	1				
32	HA-1043	AU	1				
33	HA-1045	AU	1				
34	HA-1046	AU	1				
35	HA-1048	AU	1				
36	HA-1050	AU	1				
37	HA-1051	AU	1				
38	HA-1052	AU	1				
39	HA-1055	AU	1				
40	HA-1056	AU	1				
41	HA-1057	AU	1				
42	HA-1058	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

43	HA-1059	AU	1				
44	HA-1060	AU	1				
45	HA-1061	AU	1				
46	HA-1062	AU	1				
47	HA-1063	AU	1				
48	HA-1064	AU	1				
49	HA-1068	AU	1				
50	HA-1069	AU	1				
51	HA-1070	AU	1				
52	HA-1071	AU	1				
53	HA-1072	AU	1				
54	HA-1073	AU	1				
55	HA-1074	AU	1				
56	HA-1075	AU	1				
57	HA-1076	AU	1				
58	HA-1077	AU	1				
59	HA-1078	AU	1				
60	HA-1079	AU	1				
61	HA-1080	AU	1				
62	HA-1082	AU	1				
63	HA-1083	AU	1				
64	HA-1084	AU	1				
65	HA-1085	AU	1				
66	HA-1087	AU	1				
67	HA-1088	AU	1				
68	HA-1089	AU	1				
69	HA-1090	AU	1				
70	HA-1091	AU	1				
71	HA-1092	AU	1				
72	HA-1093	AU	1				
73	HA-1094	AU	1				
74	HA-1095	AU	1				
75	HA-1096	AU	1				
76	HA-1097	AU	1				
77	HA-1098	AU	1				
78	HA-1099	AU	1				
79	HA-1100	AU	1				
80	HA-1101	AU	1				
81	HA-1102	AU	1				
82	HA-1103	AU	1				
83	HA-1111	AU	1				
84	HA-1114	AU	1				
85	HA-1117	AU	1				
86	HA-1118	AU	1				
87	HA-1119	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

88	HA-1120	AU	1				
89	HA-1121	AU	1				
90	HA-1122	AU	1				
91	HA-1123	AU	1				
92	HA-1124	AU	1				
93	HA-1125	AU	1				
94	HA-1127	AU	1				
95	HA-1128	AU	1				
96	HA-1129	AU	1				
97	HA-1130	AU	1				
98	HA-1131	AU	1				
99	HA-1132	AU	1				
100	HA-1133	AU	1				
101	HA-1134	AU	1				
102	HA-1135	AU	1				
103	HA-1136	AU	1				
104	HA-1137	AU	1				
105	HA-1138	AU	1				
106	HA-1139	AU	1				
107	HA-1140	AU	1				
108	HA-1141	AU	1				
109	HA-1142	AU	1				
110	HA-1143	AU	1				
111	HA-1144	AU	1				
112	HA-1145	AU	1				
113	HA-1147	AU	1				
114	HA-1148	AU	1				
115	HA-1150	AU	1				
116	HA-1151	AU	1				
117	HA-1152	AU	1				
118	HA-1153	AU	1				
119	HA-1154	AU	1				
120	HA-1155	AU	1				
121	HA-1158	AU	1				
122	HA-1159	AU	1				
123	HA-1160	AU	1				
124	HA-1161	AU	1				
125	HA-1162	AU	1				
126	HA-1164	AU	1				
127	HA-1166	AU	1				
128	HA-1168	AU	1				
129	HA-1169	AU	1				
130	HA-1170	AU	1				
131	HA-1177	AU	1				
132	HA-1178	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

133	HA-1179	AU	1				
134	HA-1180	AU	1				
135	HA-1181	AU	1				
136	HA-1182	AU	1				
137	HA-1184	AU	1				
138	HA-1187	AU	1				
139	HA-1189	AU	1				
140	HA-1190	AU	1				
141	HA-1191	AU	1				
142	HA-1192	AU	1				
143	HA-1193	AU	1				
144	HA-1194	AU	1				
145	HA-1195	AU	1				
146	HA-1196	AU	1				
147	HA-1197	AU	1				
148	HA-1198	AU	1				
149	EA 3001	AU	1				
150	EA 3002	AU	1				
151	EA 3003	AU	1				
152	EA 3005	AU	1				
153	EA 3006	AU	1				
154	EA 3007	AU	1				
155	EA 3008	AU	1				
156	EA 3009	AU	1				
157	EA 3010	AU	1				
158	EA 3011	AU	1				
159	EA 3012	AU	1				
160	EA 3013	AU	1				
161	EA 3014	AU	1				
162	EA 3015	AU	1				
163	EA 3016	AU	1				
164	EA 3017	AU	1				
165	EA 3018	AU	1				
166	EA 3019	AU	1				
167	EA 3021	AU	1				
168	EA 3022	AU	1				
169	EA 3023	AU	1				
170	EA 3025	AU	1				
171	EA 3026	AU	1				
172	EA 3027	AU	1				
173	EA 3028	AU	1				
174	EA 3029	AU	1				
175	EA 3030	AU	1				
176	EA 3031	AU	1				
177	EA 3032	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

178	EA 3033	AU	1				
179	EA 3034	AU	1				
180	EA 3035	AU	1				
181	EA 3036	AU	1				
182	EA 3037	AU	1				
183	EA 3038	AU	1				
184	EA 3039	AU	1				
185	EA 3040	AU	1				
186	EA 3042	AU	1				
187	EA 3043	AU	1				
188	EA 3044	AU	1				
189	EA 3045	AU	1				
190	EA 3046	AU	1				
191	EA 3047	AU	1				
192	EA 3048	AU	1				
193	EA 3049	AU	1				
194	EA 3050	AU	1				
195	EA 3051	AU	1				
196	EA 3052	AU	1				
197	EA 3053	AU	1				
198	EA 3054	AU	1				
199	EA 3055	AU	1				
200	EA 3056	AU	1				
201	EA 3057	AU	1				
202	EA 3058	AU	1				
203	EA 3059	AU	1				
204	EA 3060	AU	1				
205	EA 3061	AU	1				
206	EA 3062	AU	1				
207	EA 3063	AU	1				
208	EA 3064	AU	1				
209	EA 3065	AU	1				
210	EA 3066	AU	1				
211	EA 3067	AU	1				
212	EA 3068	AU	1				
213	EA 3069	AU	1				
214	EA 3070	AU	1				
215	EA 3071	AU	1				
216	EA 3072	AU	1				
217	EA 3073	AU	1				
218	EA 3074	AU	1				
219	EA 3075	AU	1				
220	EA 3076	AU	1				
221	EA 3077	AU	1				
222	EA 3078	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

223	EA 3079	AU	1				
224	EA 3080	AU	1				
225	EA 3081	AU	1				
226	EA 3082	AU	1				
227	EA 3083	AU	1				
228	EA 3084	AU	1				
229	EA 3085	AU	1				
230	EA 3086	AU	1				
231	EA 3087	AU	1				
232	EA 3088	AU	1				
233	EA 3089	AU	1				
234	EA 3090	AU	1				
235	EA 3091	AU	1				
236	EA 3092	AU	1				
237	EA 3093	AU	1				
238	EA 3094	AU	1				
239	EA 3095	AU	1				
240	EA 3096	AU	1				
241	EA 3097	AU	1				
242	EA 3098	AU	1				
243	EA 3099	AU	1				
244	EA 3100	AU	1				
245	EA 3101	AU	1				
246	EA 3102	AU	1				
247	EA 3103	AU	1				
248	EA 3104	AU	1				
249	EA 3105	AU	1				
250	EA 3106	AU	1				
251	EA 3107	AU	1				
252	EA 3108	AU	1				
253	EA 3109	AU	1				
254	EA 3110	AU	1				
255	EA 3111	AU	1				
256	EA 3112	AU	1				
257	EA 3113	AU	1				
258	EA 3114	AU	1				
259	EA 3115	AU	1				
260	EA 3116	AU	1				
261	EA 3117	AU	1				
262	EA 3118	AU	1				
263	EA 3119	AU	1				
264	EA 3120	AU	1				
265	EA 3121	AU	1				
266	EA 3122	AU	1				
267	EA 3123	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

268	EA 3124	AU	1				
269	EA 3125	AU	1				
270	EA 3126	AU	1				
271	EA 3127	AU	1				
272	EA 3128	AU	1				
273	EA 3129	AU	1				
274	EA 3130	AU	1				
275	EA 3131	AU	1				
276	EA 3132	AU	1				
277	EA 3133	AU	1				
278	EA 3134	AU	1				
279	EA 3135	AU	1				
280	EA 3136	AU	1				
281	EA 3137	AU	1				
282	EA 3138	AU	1				
283	EA 3139	AU	1				
284	EA 3140	AU	1				
285	EA 3141	AU	1				
286	EA 3142	AU	1				
287	EA 3143	AU	1				
288	EA 3144	AU	1				
289	EA 3145	AU	1				
290	EA 3146	AU	1				
291	EA 3147	AU	1				
292	EA 3148	AU	1				
293	EA 3149	AU	1				
294	EA 3150	AU	1				
295	EA 3151	AU	1				
296	EA 3152	AU	1				
297	EA 3153	AU	1				
298	EA 3154	AU	1				
299	EA 3155	AU	1				
300	EA 3156	AU	1				
301	EA 3157	AU	1				
302	EA 3158	AU	1				
303	EA 3159	AU	1				
304	EA 3160	AU	1				
305	EA 3161	AU	1				
306	EA 3162	AU	1				
307	EA 3163	AU	1				
308	EA 3164	AU	1				
309	EA 3165	AU	1				
310	EA 3166	AU	1				
311	EA 3167	AU	1				
312	EA 3168	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

313	EA 3169	AU	1				
314	EA 3170	AU	1				
315	EA 3171	AU	1				
316	EA 3172	AU	1				
317	EA 3173	AU	1				
318	EA 3174	AU	1				
319	EA 3175	AU	1				
320	EA 3176	AU	1				
321	EA 3177	AU	1				
322	EA 3178	AU	1				
323	EA 3179	AU	1				
324	EA 3180	AU	1				
325	EA 3181	AU	1				
326	EA 3182	AU	1				
327	EA 3183	AU	1				
328	EA 3184	AU	1				
329	EA 3185	AU	1				
330	EA 3186	AU	1				
331	EA 3187	AU	1				
332	EA 3188	AU	1				
333	EA 3189	AU	1				
334	EA 3190	AU	1				
335	EA 3191	AU	1				
336	EA 3192	AU	1				
337	EA 3193	AU	1				
338	EA 3194	AU	1				
339	EA 3195	AU	1				
340	EA 3196	AU	1				
341	EA 3197	AU	1				
342	EA 3198	AU	1				
343	EA 3199	AU	1				
344	EA 3200	AU	1				
345	EA 3201	AU	1				
346	EA 3202	AU	1				
347	EA 3203	AU	1				
348	EA 3204	AU	1				
349	EA 3205	AU	1				
350	EA 3206	AU	1				
351	EA 3207	AU	1				
352	EA 3208	AU	1				
353	EA 3209	AU	1				
354	EA 3210	AU	1				
355	EA 3211	AU	1				
356	EA 3212	AU	1				
357	EA 3213	AU	1				



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

358	EA 3214	AU	1				
359	EA 3215	AU	1				
360	EA 3216	AU	1				
361	EA 3217	AU	1				
362	EA 3218	AU	1				
363	EA 3219	AU	1				
364	EA 3220	AU	1				
365	EA 3221	AU	1				
366	EA 3222	AU	1				
367	EA 3223	AU	1				
368	EA 3224	AU	1				
369	EA 3225	AU	1				
370	EA 3226	AU	1				
371	EA 3227	AU	1				
372	EA 3228	AU	1				
373	EA 3229	AU	1				
374	EA 3230	AU	1				
375	EA 3231	AU	1				
376	EA 3232	AU	1				
377	EA 3233	AU	1				
378	EA 3234	AU	1				
379	EA 3235	AU	1				
380	EA 3236	AU	1				
381	EA 3237	AU	1				
382	EA 3238	AU	1				
383	EA 3239	AU	1				
384	EA 3240	AU	1				
385	EA 3241	AU	1				
386	EA 3242	AU	1				
387	EA 3243	AU	1				
388	EA 3244	AU	1				
389	EA 3245	AU	1				
390	EA 3246	AU	1				
391	EA 3247	AU	1				
392	EA 3248	AU	1				
393	EA 3249	AU	1				
394	EA 3250	AU	1				
395	EA 3251	AU	1				
396	EA 3252	AU	1				
397	EA 3253	AU	1				
398	EA 3254	AU	1				
399	EA 3255	AU	1				
400	EA 3256	AU	1				
401	EA 3257	AU	1				
402	EA 3258	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

403	EA 3259	AU	1				
404	EA 3260	AU	1				
405	EA 3261	AU	1				
406	EA 3262	AU	1				
407	EA 3263	AU	1				
408	EA 3264	AU	1				
409	EA 3265	AU	1				
410	EA 3266	AU	1				
411	EA 3267	AU	1				
412	EA 3268	AU	1				
413	EA 3271	AU	1				
414	EA 3272	AU	1				
415	EA 3273	AU	1				
416	EA 3274	AU	1				
417	EA 3275	AU	1				
418	EA 3276	AU	1				
419	EA 3277	AU	1				
420	EA 3278	AU	1				
421	EA 3279	AU	1				
422	EA 3280	AU	1				
423	EA 3281	AU	1				
424	EA 3282	AU	1				
425	EA 3283	AU	1				
426	EA 3284	AU	1				
427	EA 3285	AU	1				
428	EA 3286	AU	1				
429	EA 3287	AU	1				
430	EA 3288	AU	1				
431	EA 3289	AU	1				
432	EA 3290	AU	1				
433	EA 3291	AU	1				
434	EA 3292	AU	1				
435	EA 3293	AU	1				
436	EA 3294	AU	1				
437	EA 3295	AU	1				
438	EA 3296	AU	1				
439	EA 3297	AU	1				
440	EA 3298	AU	1				
441	EA 3300	AU	1				
442	EA 3301	AU	1				
443	EA 3302	AU	1				
444	EA 3303	AU	1				
445	EA 3304	AU	1				
446	EA 3305	AU	1				
447	EA 3306	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

448	EA 3307	AU	1				
449	EA 3308	AU	1				
450	EA 3309	AU	1				
451	EA 3310	AU	1				
452	EA 3311	AU	1				
453	EA 3312	AU	1				
454	EA 3313	AU	1				
455	EA 3314	AU	1				
456	EA 3315	AU	1				
457	EA 3316	AU	1				
458	EA 3317	AU	1				
459	EA 3318	AU	1				
460	EA 3319	AU	1				
461	EA 3320	AU	1				
462	EA 3321	AU	1				
463	EA 3322	AU	1				
464	EA 3323	AU	1				
465	EA 3324	AU	1				
466	EA 3325	AU	1				
467	EA 3326	AU	1				
468	EA 3327	AU	1				
469	EA 3328	AU	1				
470	EA 3329	AU	1				
471	EA 3330	AU	1				
472	EA 3331	AU	1				
473	EA 3332	AU	1				
474	EA 3333	AU	1				
475	EA 3334	AU	1				
476	EA 3335	AU	1				
477	EA 3336	AU	1				
478	EA 3337	AU	1				
479	EA 3338	AU	1				
480	EA 3339	AU	1				
481	EA 3340	AU	1				
482	EA 3341	AU	1				
483	EA 3342	AU	1				
484	EA 3343	AU	1				
485	EA 3344	AU	1				
486	EA 3345	AU	1				
487	EA 3346	AU	1				
488	EA 3347	AU	1				
489	EA 3348	AU	1				
490	EA 3349	AU	1				
491	EA 3350	AU	1				
492	EA 3351	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

493	EA 3352	AU	1				
494	EA 3353	AU	1				
495	EA 3354	AU	1				
496	EA 3355	AU	1				
497	EA 3356	AU	1				
498	EA 3357	AU	1				
499	EA 3358	AU	1				
500	EA 3359	AU	1				
501	EA 3360	AU	1				
502	EA 3361	AU	1				
503	EA 3362	AU	1				
504	EA 3363	AU	1				
505	EA 3364	AU	1				
506	EA 3365	AU	1				
507	EA 3366	AU	1				
508	EA 3367	AU	1				
509	EA 3368	AU	1				
510	EA 3369	AU	1				
511	EA 3370	AU	1				
512	EA 3371	AU	1				
513	EA 3372	AU	1				
514	EA 3373	AU	1				
515	EA 3374	AU	1				
516	EA 3375	AU	1				
517	EA 3376	AU	1				
518	EA 3377	AU	1				
519	EA 3378	AU	1				
520	EA 3379	AU	1				
521	EA 3380	AU	1				
522	EA 3381	AU	1				
523	EA 3382	AU	1				
524	EA 3383	AU	1				
525	EA 3384	AU	1				
526	EA 3385	AU	1				
527	EA 3386	AU	1				
528	EA 3387	AU	1				
529	LA-5001	AU	1				
530	LA-5002	AU	1				
531	LA-5003	AU	1				
532	LA-5004	AU	1				
533	LA-5005	AU	1				
534	LA-5006	AU	1				
535	LA-5008	AU	1				
536	LA-5009	AU	1				
537	LA-5010	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

538	LA-5011	AU	1				
539	LA-5012	AU	1				
540	LA-5013	AU	1				
541	LA-5014	AU	1				
542	LA-5015	AU	1				
543	LA-5016	AU	1				
544	LA-5017	AU	1				
545	LA-5018	AU	1				
546	LA-5019	AU	1				
547	LA-5020	AU	1				
548	LA-5021	AU	1				
549	LA-5022	AU	1				
550	LA-5023	AU	1				
551	LA-5024	AU	1				
552	LA-5025	AU	1				
553	LA-5026	AU	1				
554	LA-5027	AU	1				
555	LA-5028	AU	1				
556	LA-5029	AU	1				
557	LA-5030	AU	1				
558	LA-5031	AU	1				
559	LA-5032	AU	1				
560	LA-5033	AU	1				
561	LA-5034	AU	1				
562	LA-5035	AU	1				
563	LA-5036	AU	1				
564	LA-5037	AU	1				
565	LA-5038	AU	1				
566	LA-5039	AU	1				
567	LA-5040	AU	1				
568	LA-5041	AU	1				
569	LA-5042	AU	1				
570	LA-5043	AU	1				
571	LA-5044	AU	1				
572	LA-5045	AU	1				
573	LA-5046	AU	1				
574	LA-5048	AU	1				
575	LA-5050	AU	1				
576	LA-5051	AU	1				
577	LA-5052	AU	1				
578	LA-5053	AU	1				
579	LA-5054	AU	1				
580	LA-5055	AU	1				
581	LA-5057	AU	1				
582	LA-5058	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

583	LA-5059	AU	1				
584	LA-5060	AU	1				
585	LA-5061	AU	1				
586	LA-5063	AU	1				
587	LA-5064	AU	1				
588	LA-5065	AU	1				
589	LA-5066	AU	1				
590	LA-5067	AU	1				
591	LA-5068	AU	1				
592	LA-5069	AU	1				
593	LA-5070	AU	1				
594	LA-5071	AU	1				
595	LA-5072	AU	1				
596	LA-5073	AU	1				
597	LA-5074	AU	1				
598	LA-5075	AU	1				
599	LA-5076	AU	1				
600	LA-5077	AU	1				
601	LA-5078	AU	1				
602	LA-5079	AU	1				
603	LA-5080	AU	1				
604	LA-5081	AU	1				
605	LA-5082	AU	1				
606	LA-5083	AU	1				
607	LA-5084	AU	1				
608	LA-5085	AU	1				
609	LA-5086	AU	1				
610	LA-5087	AU	1				
611	LA-5088	AU	1				
612	LA-5089	AU	1				
613	LA-5090	AU	1				
614	LA-5091	AU	1				
615	LA-5092	AU	1				
616	LA-5093	AU	1				
617	LA-5094	AU	1				
618	LA-5095	AU	1				
619	LA-5096	AU	1				
620	LA-5097	AU	1				
621	LA-5098	AU	1				
622	LA-5099	AU	1				
623	LA-5100	AU	1				
624	LA-5101	AU	1				
625	LA-5102	AU	1				
626	LA-5103	AU	1				
627	LA-5104	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

628	LA-5105	AU	1				
629	LA-5106	AU	1				
630	LA-5107	AU	1				
631	LA-5108	AU	1				
632	LA-5109	AU	1				
633	LA-5110	AU	1				
634	LA-5111	AU	1				
635	LA-5112	AU	1				
636	LA-5113	AU	1				
637	LA-5114	AU	1				
638	LA-5115	AU	1				
639	LA-5116	AU	1				
640	LA-5117	AU	1				
641	LA-5118	AU	1				
642	LA-5119	AU	1				
643	LA-5120	AU	1				
644	LA-5121	AU	1				
645	LA-5122	AU	1				
646	LA-5123	AU	1				
647	LA-5128	AU	1				
648	LA-5129	AU	1				
649	LA-5130	AU	1				
650	LA-5131	AU	1				
651	LA-5132	AU	1				
652	LA-5133	AU	1				
653	LA-5134	AU	1				
654	LA-5135	AU	1				
655	LA-5136	AU	1				
656	LA-5137	AU	1				
657	LA-5138	AU	1				
658	LA-5139	AU	1				
659	LA-5140	AU	1				
660	LA-5141	AU	1				
661	LA-5142	AU	1				
662	LA-5143	AU	1				
663	LA-5144	AU	1				
664	LA-5145	AU	1				
665	LA-5146	AU	1				
666	LA-5147	AU	1				
667	LA-5148	AU	1				
668	LA-5149	AU	1				
669	LA-5150	AU	1				
670	LA-5151	AU	1				
671	LA-5152	AU	1				
672	LA-5153	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

673	LA-5155	AU	1				
674	LA-5156	AU	1				
675	LA-5157	AU	1				
676	LA-5158	AU	1				
677	LA-5159	AU	1				
678	LA-5160	AU	1				
679	LA-5161	AU	1				
680	LA-5162	AU	1				
681	LA-5163	AU	1				
682	LA-5164	AU	1				
683	LA-5165	AU	1				
684	LA-5166	AU	1				
685	LA-5168	AU	1				
686	LA-5169	AU	1				
687	LA-5170	AU	1				
688	LA-5172	AU	1				
689	LA-5173	AU	1				
690	LA-5174	AU	1				
691	LA-5175	AU	1				
692	LA-5176	AU	1				
693	LA-5178	AU	1				
694	LA-5179	AU	1				
695	LA-5180	AU	1				
696	LA-5182	AU	1				
697	LA-5183	AU	1				
698	LA-5184	AU	1				
699	LA-5185	AU	1				
700	LA-5187	AU	1				
701	LA-5188	AU	1				
702	LA-5189	AU	1				
703	LA-5190	AU	1				
704	LA-5191	AU	1				
705	LA-5192	AU	1				
706	LA-5193	AU	1				
707	LA-5194	AU	1				
708	LA-5195	AU	1				
709	LA-5196	AU	1				
710	LA-5197	AU	1				
711	LA-5198	AU	1				
712	LA-5199	AU	1				
713	LA-5200	AU	1				
714	LA-5201	AU	1				
715	LA-5202	AU	1				
716	LA-5203	AU	1				
717	LA-5204	AU	1				



**Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)**

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

718	LA-5206	AU	1				
719	LA-5207	AU	1				
720	LA-5208	AU	1				
721	LA-5209	AU	1				
722	LA-5210	AU	1				
723	LA-5211	AU	1				
724	LA-5212	AU	1				
725	LA-5214	AU	1				
726	LA-5216	AU	1				
727	LA-5218	AU	1				
728	LA-5219	AU	1				
729	LA-5220	AU	1				
730	LA-5221	AU	1				
731	LA-5222	AU	1				
732	LA-5223	AU	1				
733	LA-5224	AU	1				
734	LA-5225	AU	1				
735	LA-5226	AU	1				
736	LA-5227	AU	1				
737	LA-5228	AU	1				
738	LA-5229	AU	1				
739	LA-5231	AU	1				
740	LA-5232	AU	1				
741	LA-5233	AU	1				
742	LA-5234	AU	1				
743	LA-5236	AU	1				
744	LA-5239	AU	1				
TOTAL IN RS							

Note: -

1. BIDDER TO QUOTE ACTUAL PRICES in BOQ ONLINE AT NIC PORTAL.
2. EVEN THOUGH BIDDER IS QUOTING FOR TOTAL PRICES IN BOQ DETAILED BREAKUP SHOULD BE PROVIDED BY BIDDER WHENEVER MDL ASKS FOR IT.
3. EVALUATED L1 BIDDER NEED TO PROVIDE DETAILED BREAK UP DURING PNC ETC.
4. ANY CLARIFICATIONS SHALL BE CONFIRMED BY BIDDER BEFORE QUOTING, ONCE QUOTED BIDDER HAS TO EXECUTE THE WORK ON QUOTED PRICES (TOTAL FOR EACH DEFECT) FAILING WHICH FIRM IS LIABLE FOR COMMERCIAL ACTION LIKE RISK PURCHASE, TENDER HOLIDAY ETC.

COMPANY'S NAME & ADDRESS:

SIGNATURE:

DATE:

NAME:

DESIGNATION:

BIDDER'S COMPANY SEAL:



Mazagon Dock Shipbuilders Limited, Mumbai
Standard Bidding Document (SBD)

Tender No. 2500000120

Item: Outsourcing Refit of Indian Coast Guard Ship ICGS VIKRAM Y-16302

Type of tender: Limited Tender

Example of Illustrative Blank rate sheet to be uploaded in Part-I

SR NO	DESCRIPTION	UNIT	QTY	UNIT RATE IN RS	SAC /HSN CODE	GST %	TOTAL WITHOUT TAXES
1	HA-1001	AU	1	Quoted / Not Quoted	996600	18%	Quoted / Not Quoted