



## माझगांव डॉक शिपबिल्डर्स लिमिटेड

(भारत सरकार का उपक्रम)

राष्ट्र के पोत निर्माता

डॉकयार्ड रोड, माझगांव

मुंबई - ४०००१०

भारत

### MAZAGON DOCK SHIPBUILDERS LIMITED

(A Government of India Undertaking)

Shipbuilders to the Nation

Dockyard Road, Mazagon,

Mumbai 400 010.

INDIA

### ई-निविदा फॉर्म दो हिस्सों में

#### e-TENDER ENQUIRY FORM (TEF) Two-Bid System

मंडल: पोत निर्माण

DIVISION: SHIP BUILDING

विभाग: बाह्यस्त्रोत-तकनीकी सेवाएँ

DEPARTMENT: OTS-TECHNICAL SERVICES

निविदा क्रमांक: १९०००००२३१

TENDER NO: 1900000231

निविदा जारी दिनांक : २५ सितम्बर २०२५

TENDER DATE: 25 September 25

निविदा देय दिनांक एवं समय: १६ अक्टोबर २०२५ दोपहर १५:३० बजे

**CLOSING DATE & TIME: 16 October 2025 at 1530 Hrs**

भाग १ - तकनीकी एवं वाणिज्यिक हिस्सा खोलने (ऑनलाइन) की तिथि एवं समय: १७ अक्टोबर २०२५, दोपहर १५:३० बजे से

**Online Opening of Part-I (Techno-commercial Bid): 17 October 2025 at 1530 Hrs. IST onwards.**

माझगांव डॉक शिपबिल्डर्स लिमिटेड प्रासिद्ध निविदाकर्ताओं / विक्रेताओं से निम्नलिखित कार्य के लिए प्रतियोगी ऑनलाइन निविदाएँ दो हिस्सों में (भाग १ - तकनीकी एवं वाणिज्यिक हिस्सा और भाग २ - मूल्य हिस्सा) अपने ई-प्रॉक्यूरमेंट पोर्टल <https://eprocuremdl.nic.in> पे आमंत्रित करते हैं।

**MAZAGON DOCK SHIPBUILDERS LIMITED** hereinafter referred to as **MDL**, INVITES ONLINE COMPETITIVE BIDS from reputed Bidders in **TWO BID SYSTEM** (Part-I Techno-Commercial Bid and Part-II Price Bid) on e-procurement portal <https://eprocuremdl.nic.in> for the following Work / Services:

## कार्य का वर्णन

## DESCRIPTION OF WORK

द्विवार्षिक दर □ नुबंध (२०२५-२०२७) के □ तर्गत एमडीएल यार्ड्स में विभिन्न भवनों/ कार्यशालों में प्रमुख सिविल कार्य, जो डॉकयार्ड रोड, □ नीक चेंबूर, गव्हान, न्हावा यार्ड, दक्षिण यार्ड □ नेक्स तथा डॉकयार्ड रोड वाशी और बेलापुर स्थित आवासीय क्वार्टरों में किए जाएंगे।

**Biennial Rate Contract (2025-2027) for Major Civil Works in Various buildings / Workshops in MDL Yards at Dockyard Road, Anik Chembur, Nhava, Gavhan, South Yard Annexe, Residential quarters at Dockyard Road, Vashi and Belapur**

निविदा क्र.: १९०००००२३१  
**TENDER NO: 1900000231**

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## 1. प्रस्तावना /PREAMBLE

- 1.1. Mazagon Dock Shipbuilders Ltd. (MDL), a listed Company, hereinafter referred as Employer (Client), is a Public Sector Undertaking by the Government of India under the administrative control of Department of Defence production, Ministry of Defence.
- 1.2. MDL's main business/ activities are Shipbuilding, Submarine Construction and Heavy Engineering Works.
- 1.3. MDL intends to undertake Biennial Rate Contract (2025-27) for Major Civil Works.

## 2. काम का संक्षिप्त विवरण/BRIEF SCOPE OF WORK:

- 2.1. Mazagon Dock Shipbuilders Limited has office buildings/workshops/store sheds / marine structures/internal roads and other infrastructure located in the various yard viz. North Yard, South Yard, East Yard, Alcock Yard, Anik Chembur Yard, Sewree Yard, Gavan Yard, Naval Yard at Colaba and Residential quarters in Mumbai/Navi Mumbai.
- 2.2. Various works of new construction/repair/renovation/maintenance nature needs to be carried out in the above structures in order to maintain a high level of working efficiency and aesthetic appearance in the yard.
- 2.3. The Scope of work required to be carried out have been broadly categorized in to Civil, interior work comprising of excavation and disposal, concrete work, brick/stone masonry work, plastering work, restorative repair work, wood work, external/internal painting work, roofing and sheeting work, plumbing/sanitary and pipeline work, waterproofing and flooring work, structural steel work, structural repair work, partition work, glazing work, false ceiling work, Bituminous/concrete road work etc. **The anticipated cumulative value of Civil works to be Ordered under the Biennial Parallel Rate Contract is about Rs. 20.00 Crore (excluding GST)**
- 2.4. Bidder shall refer detailed Technical Specifications & Preferred make List attached separately at **Enclosure 21**.
- 2.5.. The Safety Instructions & Statutory compliances are attached at Annexure A & B respectively.

## 3. निविदाकर्ताओं के लिए निर्देश/ INSTRUCTIONS TO THE BIDDERS:

- 3.1. This is an e-tender and bids have to be submitted online ONLY. It is the sole responsibility of the bidders to submit their bids online in time. Bidders are, therefore, advised to commence the bidding process on the e-procurement portal WELL IN ADVANCE (preferably 3-4 days prior to tender closing date) and not wait for last minute submission of their bids. MDL reserves the right for grant of extension or otherwise without assigning any reason. Bidder's failure to complete submission of their online bids in time on account of reasons such as SLOW SPEED OF SERVER, TECHNICAL PROBLEMS etc. shall not be entertained and EXTENSION OF SUBMISSION TIME shall not be granted on this account.
- 3.2. In case any bidder intending to respond against the tender and is not having the DSC to facilitate uploading of his bid, should approach the Service Provider at least 10 working days in advance of the tender closing date requesting for DSC. The request so made to the Service Provider should simultaneously be forwarded to MDL Dealing Officer. In case the DSC is not received within 3 to 4 working days of the request by the bidder, the Head of the concerned Commercial section be informed immediately. If the DSC is not received from the Service Provider three working days prior to the tender closing date, suitable extension to the tender



closing date shall be considered if requested by the concerned bidder on submission of requisite supporting documents (scanned copy of application submitted to the service provider).

3.3. In case of any discrepancies'

- 3.3.1. Between Hindi and English Versions of the Tender Clauses, English Version will prevail.
- 3.3.2. In the drawings or between the drawings, technical specifications, and/ or schedule of items/quantities, the contractor shall seek clarification from MDL and shall carry out the work in accordance with the clarification furnished by MDL.
- 3.3.3. MDL at its discretion, may follow the following order of preference- Description of Schedule of Bill of Quantities, Technical Specifications, Drawings, General Condition of Contract.

3.4. Tender due date extension may be considered if extension of time asked by bidder in 3 days' in advance.

3.5. The online bid can be submitted by the authorized representative of the bidder as detailed below,

- 3.5.1. By the Proprietor, in case of a proprietary firm; or
- 3.5.2. By a Partner, in case of a partnership firm and/or a limited liability partnership;
- 3.5.3. By a duly authorized person holding the Power of Attorney, in case of a Limited or Private Limited Company or a corporation.

3.6. In case of any techno-commercial query prior to submission of bids, the bidder(s) are requested to contact the following from MDL. Letter(s)/emails shall be addressed to GM/HOD (OTS), MDL. Contact details are as under:

MDL	
Shri. Anant Garkhedkar DGM/HOS (OTS-PS & TS) Email: <a href="mailto:apgarkhedkar@mazdock.com">apgarkhedkar@mazdock.com</a> Tel No: +91 22 23763086 Mob No: 9324019254	Shri. Sachin M Ghanwat, CM (OTS-TS) Mail: <a href="mailto:sghanwat@mazdock.com">sghanwat@mazdock.com</a> Tel No: +91 22 23764224 Mob No: 8879788195

3.7. Before submission of the tender, the bidder shall visit the site, examine the General Conditions of Contract, the Specifications (including any drawings and other specifications referred to therein), the schedules and the Bill of Quantities. In case of any ambiguity or discrepancy between any of these documents or between figured and measured dimensions, the bidder should immediately refer the matter to MDL.

3.8. **Corrigendum:**

- 3.8.1. 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.
- 3.8.2. 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.



3.9. Mazagon Dock Shipbuilders Limited will not be responsible for any costs or expenses incurred by the Bidder in connection with the preparation and submission of his bid or for any other expenses incurred in connection with such bidding regardless of the conduct or outcome of the tendering process including cancellation of this tender process.

3.10. The bidder shall not take any benefit of grammatical or printing mistakes, which may have occurred.

3.11. DEVIATIONS: - Deviations, if any, from Terms, Conditions & Technical requirements specified in the Tender Enquiry, General Conditions of Contract (GCC) should be clarified from MDL well before the closing date of the tender. Deviations put up along with the tender is generally discouraged and not accepted.

3.12. Information relating to the examination, clarification, evaluation and comparison of bids, and recommendations for the award of a contract, shall not be disclosed to bidders or any other person not officially concerned with such a process until the award to the successful bidder has been announced.

3.13. From the time of bid opening to the time of contract award, no bidder shall contact MDL on any matter related to the bid, except on request and prior written permission.

3.14. Any effort by the bidder to influence MDL in bid evaluation, bid comparison or contract award decisions will vitiate the process and will result in the rejection of the bidder's bid.

#### 4. ई-टेंडरिंग के लिये मार्गदर्शन /GUIDANCE FOR E-TENDERING:

- 4.1. No offer in sealed envelope will be accepted against e-Procurement.
- 4.2. Bidders can participate in online bidding
  - 4.2.1. By registering with above referred portal for User ID and password.
  - 4.2.2. By obtaining class III B DSC (Digital Signature Certificate) for secured bidding.
- 4.3. For any further details on e-tendering & Digital Signature Certificate (DSC), following are the contact details – email: [eproc-support@gov.in](mailto:eproc-support@gov.in) , global support number - +91-120-4200462/+91-120-4001002, Mobile No -+918826246593.
- 4.4. For uploading the tender details, DSCs issued by the following are acceptable: i) n-Code ii) MTNL iii) TCS iv) SIFY
- 4.5. For mapping of DSC, representative of National Informatics Centre may be contacted.
- 4.6. Bidders who had earlier participated in MDL tenders on e-Procurement portal <https://mdl.eproc.in> need to register again on the current e-Procurement portal <https://eprocuremdl.nic.in>.

#### 5. दो प्रणाली में ऑनलाइन प्रस्ताव प्रस्तुत करे /ONLINE SUBMISSION OF OFFER IN TWO-BID SYSTEM:

- 5.1. Offer must be submitted in Two parts i.e. Part-I (Techno-Commercial Bid) and Part-II (Price Bid) as appearing online on the portal <https://eprocuremdl.nic.in>
  - 5.1.1. **Techno-Commercial (Part-I) Bid:** Bidders shall submit/upload scanned copy of the following duly filled in, signed & stamped with company seal in online Part (I) bid: -
    - i. In respect of technical requirements of the tender:
      - a. Documentary evidence in support of Past experience and Performance on Similar work(s) during the last 7 years, stipulated under **TEF Clause No.7**, as applicable in the format attached at **Enclosure-8**.



- b. Documents in support of general construction experience (Annual Turnover) **TEF Clause No.7.1.3.** in the format attached at **Enclosure-3**
  - c. Scanned copy of Bidder's company profile.
  - d. List of Equipment with its Model / Year / working status along with details of manufacturing facilities.
  - e. List of Key Personnel available for this Project, in the format attached at **Enclosure-9**
  - f.
- ii. In respect of Commercial requirements of the tender:
- a. Bidder's Undertaking at **Enclosure-1.**
  - b. Acceptance on clauses of Tender Enquiry (TEF) in the Prescribed Format **appearing online** stating 'Accepted' OR 'Not Accepted' as applicable for each of the clause in the format attached at **Enclosure-2.**
  - c. Acceptance on clauses of General Conditions of Contract (GCC) in the Prescribed Format appearing online stating 'Accepted' OR 'Not Accepted' as applicable for each of the clause in the format attached at **Enclosure-4.**
  - d. Deviations, if any, from Terms, Conditions & Technical requirements specified in the Tender Enquiry, GCC with reasons thereof shall be clearly indicated against the relevant clause(s) in the format attached at **Enclosure-5.**
  - e. CA Audited & certified Average Annual financial turnover during the last 3 years ending 31<sup>st</sup> March, 2024 **TEF Clause No.7.2.7(a).** Bidders shall upload scanned copies of Audit certified Balance Sheets & Profit/Loss Accounts for the last 3 years. Draft Audited Reports are not acceptable.
  - f. Bidders shall furnish Available bid Capacity as required in **TEF Clause No. 7.2.5** and **Enclosure-6 & 7** duly certified by Chartered Accountant and scanned copy of the same shall be uploaded in online Part-I bid.
  - g. Bidder shall submit Declaration certificate for Local Content as per **TEF Clause No. 40** and in the format attached at **Enclosure-10(B).** **A Sample filled up Form is appended for reference.**
  - h. Bidder shall submit Declaration in respect of restriction under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 **TEF Clause No. 41** in the format attached at **Enclosure-10 (E).**
  - i. Bidder shall submit Declaration in respect debarred under Public Procurement Policy (PPP) Make In India (MII) **TEF Clause No.40** order, in the format attached at **Enclosure-10 (F).**
  - j. Bidder shall submit Declaration for Banned or delisted Tenderer/firms/Vendors as per **TEF Clause No.38** and in the format attached at **Enclosure-11.**
  - k. Online transfer or NEFT Receipt.
  - l. The scanned image of BG towards Earnest Money Deposit (EMD) / BID BOND as stipulated in **TEF Clause 9** shall be uploaded. The original of the above BG towards Earnest Money Deposit (EMD) / BID BOND shall be sent by Registered Post/Speed Post/Courier in a sealed envelope super scribing Tender Enquiry No. and Due date, so as to reach within 07 Days from the closing date of the tender during office working hours i.e. up to 1730 hrs., **addressed To,**

बिभाग प्रमुख(बाह्यस्त्रोत),  
बाह्यस्त्रोत -तकनीकी सेवाएँ,  
छटा मंज़िल, सर्विस ब्लॉक बिल्डिंग,  
नॉर्थ यार्ड, माझगांव डॉकशिपबिल्डर्स लिमिटेड,  
डॉकयार्ड रोड, मुंबई - ४०००१० (भारत)  
**Head of the Department (OTS),  
OTS-TS Department,  
6<sup>th</sup> Floor, Service Block Building,**



**North Yard,  
Mazagon Dock Shipbuilders Limited,  
Dock Yard Road, Mumbai – 400010 (INDIA)**

**The address label of the addressee is at Enclosure 27 on the envelope**

- m. Integrity Pact shall be **duly signed and stamped on all pages** and the scanned image of the **Integrity Pact (IP) as stipulated in TEF clause no. 10 and Enclosure-13 shall be uploaded** along with the Technical Bid. **The original of the Integrity Pact shall be sent by Registered Post/Speed Post/Courier in a sealed envelope** super scribing Tender Enquiry No. and Due date, so as to reach within **07 Days** from the closing date of the tender during office working hours i.e. up to 1730 hrs, to the above address.
- n. Scanned copy of Bank details for payment by NEFT/RTGS/ECS with authenticated by the Banker in the format attached at **Enclosure-14**.
- o. Bidders shall upload scanned copy of Solvency certificate for at least **Rs.567 Lakhs**, The Solvency Certificate should not be older than One Year as on the Tender date. It should be issued by a Scheduled Commercial (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act, 1934 excluding Co-operative banks or Regional Rural Banks). The Bank Guarantee shall be from banks as per list approved by SBI Bank published on MDL website
- p. Scanned copy of **GST Registration Certificate & Permanent Account Number (PAN)**.
- q. Bidder should have valid ESIC code as per ESIC act and PF code- Bidder should have valid registration with Employees Provident Fund Organization under 'EPF and Miscellaneous Provisions Act, 1952'
- r. Scanned copy of Valid Bidder's Shop & Establishment Registration Certificate or Certification of Incorporation from Registrar of Companies or registration certificate from Registrar of firms.
- s. In case of Bidder registered with Mazagon Dock Shipbuilders Limited **may upload scanned copy** of Valid Registration Certificate issued by MDL, for the items/services for which the offer is being submitted.
- t. Power of Attorney, in case of a Limited or Private Limited Company or a corporation.
- u. CHECKLIST OF SUBMITTALS attached along with online Technical Bid as per format at **Enclosure-26**.
- v. Declaration in respect of Conflict of Interest among Bidders/Agents- **Enclosure-29** to be filled and submitted duly signed and stamped.
- w. Signed copy of Corrigendum if issued by MDL.
- x. Submission of Document with reference to TEF 7.2.7.b, related to Working Capital as on 31 Mar' 2024, duly signed & stamped by Chartered Accountant.
- y. Blank Price bid indicating 'quoted/not quoted against percentage quote and GST %, HSN Code.

**Notes:**

- i) MDL has a right to verify / cross verification of authenticity of the scanned documents with respect to original submitted against this tender.
- ii) The bidder is requested to **ensure that all the documents asked for are submitted** and are clear, legible & duly signed (i.e. self-attested), as it would save considerable time without necessitating the need for furnishing of the documents again by them. The bidder is also requested **not to submit unnecessary documents not asked for, like signed & stamped copy of this Tender document, etc.**
- iii) Bidders are requested to ensure that only relevant documents complete in all respect as indicated in the tender should be attached with their offer. The first page of every uploaded set of scanned document shall be with an index of its contents. In case the offers received against this tender are more than 20, no opportunity will be extended for submission of deficient





documents after opening of bids. The evaluation of the offers will be carried out and bidders will be qualified based on the documents received along with their offer.

- iv) MDL reserves the right to seek clarification/ deficient documents from all the bidders quoted against the tender if number of the techno-commercially qualified bids are less than X+5 where X is the number of order proposed to be placed.
- v) The bidder is required to compulsorily select "ACCEPTED" or "DEVIATION" from the choices available against the relevant Para no. /Clause no. of TEF/GCC (as applicable). In case "DEVIATION" is selected against a particular Para no. /Clause no., it would be mandatory to explain the deviation proposed by the bidder in the Deviation form at **Enclosure-5**. Any deviation(s) mentioned elsewhere in the Offer/Bid, other than in the said forms, will not be considered.

5.1.2. **मूल्य हिस्सा(भाग-२) /Price Bid (Part-II):**

- a. Price Bid as appearing in the format is to be filled by the bidder ONLINE ONLY.
- b. The estimated rates for various items in the Bill of Quantities (BOQ) are as appearing at **Enclosure -19**.
- c. Bidders after considering the estimated rates of individual items in the BOQ and the total estimated value of Rs 20.00 Crore (Excluding GST), shall quote their overall percentage at par, below or above the estimated rates.
- d. The percentage quoted/agreed by the Bidder shall be applied to the estimated rates of individual items in the BOQ, rounding off to two decimal places.
- e. The Lowest Bidder (L1) shall be evaluated based on the overall cost quoted by the bidder including applicable Goods & Service Tax.
- f. However, Purchase Preference in line with **Clause No 41.2** shall be given to Class I Local Supplier.
- g. If a firm quotes NIL charges/consideration or do not quote GST percentage in the price bid, the bid shall be treated as unresponsive and will not be considered.

6. **बोलियाँ में संशोधन /MODIFICATION TO THE BIDS :**

- 6.1. Bidders desirous of modifying their bids prior to the closing date & time may do so online in the e-Procurement Portal <https://eprocuremdl.nic.in> prior to the tender closing date & time.

7. **पूर्व योग्यता मापदंड/ PRE-QUALIFICATION CRITERIA:**

7.1. **Technical PQC**

- 7.1.1. **Particular experience-**निविदा जारी दिनांक के पूर्व माह के अंतिम दिवस के समाप्ति तक पीछले सात वर्षों के दौरान समरूप कार्य के सफलतापूर्वक पूरा करने का अनुभव किसी भी निम्नलिखित के अंतर्गत होनी चाहिए:

**Bidder's experience of having successfully completed similar works during last 7 years ending 30 August 2025 should be either of the following:**

7.1.1.1. **तीन समरूप संपन्न कार्य जिसकी प्रत्येक की लागत ₹ ५६७ लाख से कम न हो।**

Three similar\* completed works each costing not less than ₹ 567 Lakhs.

**OR**

7.1.1.2. **दो समरूप संपन्न कार्य जिसकी प्रत्येक की लागत ₹ ७०८ लाख से कम न हो।**

Two similar\* completed works each costing not less than ₹ 708 Lakhs.

**OR**

7.1.1.3. **एक समरूप संपन्न कार्य जिसकी प्रत्येक की लागत ₹ ११३३ लाख से कम न हो।**

One similar\* completed work costing not less than ₹ 1133 Lakhs.

**\*Similar Work:** "Major Civil Repair work/ Restorative work/ Renovation work/ Construction work of Buildings/ Offices/ Malls/ Shopping Complex/ Recreational Clubs/ Residential/ Commercial Complex".

**In respect of the above, following shall be applicable**

- (i) Similar completed works referred above means each work and not all works put together. It is clarified that the work executed by the bidders for their in-house or capital use will not be considered for the purpose of bidder's experience of completion of similar works. The work executed under labour rate where input materials which are supplied by client shall not be considered as experience in similar completed works.
- (ii) Successfully completed or substantially completed similar works can also be considered for above similar works. Substantial completion shall be based on 80 (eighty) per cent (value wise) or more works completed under the contract. (Note: Substantial completion should not be defined in terms of percentage completion, rather it should be based on functional consideration.)
- (iii) Client certificate for 'substantial project/work/asset should contain two parts. Part-I shall 'Financial value of work done' or client certified invoice and Part-II shall contain; certificate of functional completion of project/work/asset'.

7.1.2. Documentary evidence in support of similar completed works viz., copies of Work Order(s)/Contract Agreement(s) indicating contract amount, Project/Work value, Scope of Work etc. & Work Completion Certificate(s) issued by the Client(s) indicating proper reference of the Work Order/Contract Agreement & date of Completion, duly signed & stamped with company seal shall be scanned and uploaded online. Bidder shall submit scanned copies of TDS certificate/ Copies of Certified invoices of relevant projects when/if asked for by MDL during tendering period.

7.1.3. General Construction Experience:

The bidder should have achieved an annual turnover of general construction work of at least Rs.2400.00 Lakh in any of the year over a period of 07years, ending 31<sup>st</sup> March 2025. Further, out of the above annual turnover in the relevant year, the bidder should have achieved at least Rs.1200.00 Lakh from civil works. Bidder has to submit a certificate from their Chartered Accountant for the above.

7.1.4. Personnel Capability: The Contractor's Key Personnel should meet the requirements of qualification and experience as under.

Sr. No.	Designation	Technical Staff	Total No's	Qualifications	Minimum Experience (Years)
1	2		3	4	5
A	<b>L1 Contractor</b>				
1	Graduate Engineer (Civil)		1	Project Manager	10 (and having experience of one similar nature work)
2	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)		1	Project/ Site Engineer	5 OR 10 respectively
3	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)		1+1	Planning/quality/ billing Engineer	2 OR 5 respectively



Sr. No.	Designation Technical Staff	Total No's	Qualifications	Minimum Experience (Years)
4	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)	1+1	Project Planning/quality/billing Engineer	2 OR 5 respectively
A	<b>L2 Contractor</b>			
1	Graduate Engineer (Civil)	1	Project Manager	5 (and having experience of one similar nature of work)
2	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)	1+1	Project Planning/quality/billing Engineer	2 OR 5 respectively

## 7.2. Commercial PQC

7.2.1. Submission of requisite Instrument in support of Bid Security viz. EMD/Proof of EMD Exemption.

7.2.2. Submission of Valid Bidder's Shop & Establishment Registration Certificate or Certification of Incorporation from Registrar of Companies or registration certificate from registrar of firms.

7.2.3. Submission of Integrity Pact.

7.2.4. Submission of Solvency certificate.

7.2.5. Submission of Available Bid Capacity equal to or more than **Rs. 1416 Lakh.**

The Available Bid Capacity of the Bidder should be equal to or more than **Rs. 1416 Lakh** The Available Bid Capacity shall be calculated as under:

Available Bid Capacity =  $[1.5 \times A \times N] - B$ , where

- A = Maximum value of engineering (General Construction Works) works executed in any one year during the last five years (updated at the current price level by applying a weightage of 7% per annum), taking into account the completed as well as works in progress. Value of engineering works executed during last five years shall be certified by Chartered Accountant and shall be considered for evaluation.
- N = Number of years prescribed for completion of work for which bids have been invited = **2 years.**
- B = Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years. This statement should be submitted duly verified by Chartered Accountant.

Note: - The yield rate of GoI bonds as on the closing date of the tender shall be considered as discounting factor for updation of the value of "B".

7.2.6. The Bidder shall submit the details as required in **clause 7.2.5** above in proforma at **Enclosure- 6 & 7.**

7.2.7. Financial Capabilities

- Bidder's average Audited Annual financial turnover during last 3 years ending 31st March 2024 should be at least **Rs.425 Lakhs.** as per the annual report or audited balance sheet and profit and loss account of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant.
- The bidder should have access to, or possess available liquid assets and other financial means (independent of any contractual advance payments) sufficient to meet the construction cash flow requirements for the subject contract, of the certain minimum amount specified. The bidder should have adequate sources of finance to meet the cash flow requirements of works currently in progress and





for future contract commitments. In support of the above, the bidder should have positive Working capital as on 31st March 2024.

**7.3. Clarification of Bids/Shortfall documents:**

- 7.3.1. During evaluation and comparison of bids, MDL may, at its discretion, ask the bidder for clarifications on the bid. The request for clarification shall be given in writing, asking the bidder to respond by a specified date & time.
- 7.3.2. If the bidder does not comply or respond by the said date, his offer will be liable to be rejected.
- 7.3.3. Post-bid clarification at the initiative of the bidder shall not be entertained.

7.4. In case Projects submitted by the firm is carried out for a Project where the firm has formed Joint Venture/Consortium, the share of the firm in the Joint Venture/Consortium shall be considered for turnover/prior experience.

7.5. Bids from Joint Venture / Consortium are not acceptable.

7.6. MSE shall not be given any relaxation in prior turnover and prior experience.

7.7. Start-ups shall not be given any relaxation in prior turnover and prior experience.

**Note:** MDL reserves the right to demand hard copy(s) of any of the above documents along with originals to verify / cause verification of authenticity of the same, whenever felt necessary.

**8. स्थल मुआयना /SITE VISIT:**

8.1. The site for the work is located in Dockyard Road, Sewree, Anik Chembur, Gavan, Nhava Yard, Residential Quarters at Dockyard & Navi Mumbai.

8.2. **It is considered necessary that the Bidder(s) shall visit the site and get clear idea about the work involved, before quoting. The Bidder(s) are therefore advised to visit the site and study all the particulars of the site and the nature of the work.**

8.3. Bidder(s), if required, may contact on telephone no. 022 2376 4224/4228 or email: [sghanwat@mazdock.com](mailto:sghanwat@mazdock.com) for any doubts /clarifications / site visits.

**9. बयाना राशि/ बोली प्रतिज्ञापत्र /EARNEST MONEY DEPOSIT (EMD) / BID BOND:**

9.1. Bidders shall furnish EMD of **10 Lakhs (Rupees Ten Lakhs Only)**, against this tender.

9.2. EMD can be paid online through the link [mazagondock.in/onlinepayment.aspx](http://mazagondock.in/onlinepayment.aspx) Or following the steps listed below:

- Go to [www.mazgondock.in](http://www.mazgondock.in)
- Click on Online Payment Tab available on the home page
- Click on the Tender Tab.
- Make the payment online using Debit Cards, Credit cards, Net Banking, BHIM/UPI etc. after filling the required details.

9.3. The EMD can also be remitted directly to MDL Bank Account as per details given below:

Beneficiary's Name	Mazagon Dock Shipbuilders Limited
Name of Bank	State Bank of India
Branch	Mazagon Br.
Branch Code	9054



Bank Address	Mazagon Branch, Mazagaon, Mumbai – 400 010
Telephone No. of Bank	23752802
Account No	10005255246
Account Type	Current Account
IFSC Code	SBIN0009054
MICR / NECS Code	400002120
Income Tax PAN No.	AAACM8029J
Income Tax TAN No.	MUMMO2076E

9.4. In case bidders pay EMD online or remit the same directly to MDL Bank account through NEFT, they 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 format at **Enclosure-12** is required to be filled up by the bidder and scanned copy of the same is to be uploaded along with Techno-commercial bid (Part-I).

9.5. EMD can also be submitted in the form of Bank Guarantee in the prescribed format at **Enclosure-15**. The Bank Guarantee (Including E-Bank Guarantee) should be valid for the offer validity period indicated in the Tender plus minimum one month as claim period and should be drawn from any of the banks from the list of Banks issued by a Scheduled Commercial (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act, 1934 excluding Co-operative banks or Regional Rural Banks). The Bank Guarantee shall be kept valid till validity period of the offer plus 30 days. The original of the scanned copy of EMD (BG) should reach HOD (C)/ Dealing Executive within seven days of the tender closing date.

9.6. The Bank Guarantee shall be from banks as per list approved by SBI Bank published on MDL website

Bidders submitting EMD by way of Bank Guarantee are requested to inform their issuing Bank to provide complete details viz., address, telephone / fax number(s) and e-mail id on their cover letter enclosing the BG.

9.7. The Scanned Copy of the Bank Guarantee towards EMD shall be uploaded in the Techno-commercial bid (Part-I).

9.8. Bidder shall send the original of the Bank Guarantee towards Earnest Money Deposit (EMD) by Registered Post/Speed Post/Courier/In Person so as to reach the designated addressee within **07 Working Days** from the closing date of the tender during office working hours i.e. up to 1730 hrs. Timely submission of the original EMD instrument is the responsibility of the bidders and no reasons / excuses in this regard will be entertained by MDL. The Address Label of the Designated Addressee is at **Enclosure-27**

9.9. **Alternatively, bidder can submit the EMD in the form of ISB (Insurance Surety Bond) issued by an Indian Insurance company as defined in Section 2(7A) of the Insurance Act, 1938 and the Insurer should also be registered under the Insurance Act, 1938 to transact the business of general insurance and also registered with the IRDAI. The bond shall be irrevocable and unconditional. The Format for the ISB for EMD is attached at Enclosure-30.**

9.10. **If the original of EMD instrument is NOT RECEIVED within the stipulated period of 07 Days from the closing date of the tender, the Bids / Offers will be liable for rejection.**

9.11. Refund of EMD in all the cases shall be without interest as stated below:



- i. EMD will be refunded to the **techno-commercially** rejected bidders within 15 days from the date of price bid opening and remaining bidders within 30 days of determination of L1 or placement of Order on Successful bidder whichever is earlier.
- ii. In the event of cancellation of tender, the EMD will be refunded / returned to all the bidders
- iii. EMD of successful bidders may be converted into performance security or refunded on receipt of performance security B.G.
- iv. If the validity of the offer of the firm has expired and if bidder is not willing to extend the validity of offer, the EMD of such bidders to be refunded.

9.12. The Earnest Money Deposit shall be forfeited by MDL in the following events:

9.12.1. If the bidder withdraws, amends, impairs or derogates from the tender, agreed conditions of Technical Negotiation Committee/Commercial Negotiation Committee /Price Negotiation Committee in any respect within the period of validity of his offer.

9.12.2. If the successful bidder declines acceptance of order.

9.13. **बयाना राशि जमा करने से छूट/बोली प्रतिज्ञापत्र / EXEMPTION FROM SUBMISSION OF EMD/BID BOND:**

9.13.1. State & Central Government of India Departments & Public Sector Undertakings.

9.13.2. Firms registered with MDL. To qualify for EMD exemption, firms should necessarily submit valid copy of the Registration Certificate issued by MDL under materials group 9990003 & 9990007 for the items for which the offer is being submitted, in Part-I offer/bid. Firms in the process of obtaining MDL registration will not be considered for EMD exemption.

9.13.3. Common/Deemed DPSU registered vendors qualify for EMD exemption. Such firms shall submit valid copy of the registration certificate issued by DPSUs (other than MDL) for the items/services for which the offer is being submitted in Part-I offer/bid. Firms in process of obtaining registration in other DPSUs will not be considered for EMD exemption.

9.13.4. Green Channel Status vendors qualify for EMD exemption. Such firms shall submit valid copy of the Green channel certificate issued by MoD for the items for which the offer is being submitted in Part-I offer/bid. Firms in process of obtaining this certificate will not be considered for EMD exemption.

**Note: The procurement being of works, EMD exemption is not applicable for MSE bidder**

10. **खंडता समझौता / INTEGRITY PACT:**

10.1. The Pact essentially envisages an agreement between the prospective vendors / bidders and MDL committing the persons / officials of both the parties, not to exercise any corrupt influence on any aspect of the contract.

10.2. Only **those vendors / bidders who enter into such an Integrity Pact with MDL would be competent to participate in the bidding.**

10.3. The Integrity Pact would be effective from the stage of invitation of bids till the complete execution of the contract. This pact begins when both parties have 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.

10.4. Integrity Pact shall be **duly signed and stamped on all pages**. Bidders shall upload the signed Integrity Pact, as per format enclosed at **Enclosure-13** in the online Techno-Commercial Bid (Part-I). The hard copy of the '**INTEGRITY PACT**' shall be **submitted in the office of Outsourcing (OTS) Department, 6<sup>th</sup> floor Service Block Bldg., NY, Mazagon Dock Shipbuilders Limited within 07 Days after closing of the tender.**

10.5. The Integrity Pact would be signed by the Competent Authority in MDL & a copy returned to the bidder.

10.6. MDL has appointed **Independent External Monitors (IEMs)**, who will monitor the tender process and the execution of the contract, for compliance with all relevant laws, rules, regulations, economic use of resources and for fairness / transparency in its relations with its Bidder(s) and /or Contractor(s). The names and complete address with contact details of the IEMs are displayed on MDL's website **[www.mazagondock.in](http://www.mazagondock.in)**

## **11. वैधता □ वधि /VALIDITY PERIOD:**

11.1 Bids / Offers shall remain valid for a period of not less than **180 Days** after the deadline date of submission.

11.2 Techno-Commercially accepted bidder shall be given opportunity to accept validity as per the tender in case of shorter validity quoted by him. Non-acceptance thereafter the bid shall be rejected by MDL as non-responsive.

11.3 In exceptional circumstances, prior to expiry of the original validity of offer(s), the bidders will be requested to extend the period of offer validity for a specified additional period. The request and the bidder's responses shall be made in writing. If the bidder does not accept the request of MDL for extension of validity, the bid security will not be forfeited. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security. In case techno-commercially accepted bidder/s does not agree to extend the offer validity, the offers of all techno-commercially accepted bidder/s including the bidder who has not agreed to extend their offer validity, shall be opened and proceed further with valid bids. If the bidder who has not agreed to extend their offer validity found to be L1 then his price shall be used as reference price for negotiation purpose as applicable.

## **12. निविदाएँ खोलने की प्रक्रिया /OPENING OF BIDS:**

12.1. **Part-I (Techno-commercial Bid): Part-I bid will be opened online on the due tender opening date from 14:30 Hrs onwards in OTS-TS Section, OTS-Dept.** The bidder can view the tender online by logging their user ID on the portal **<https://eprocuremdl.nic.in>**

12.2. **Part-II (Price Bid):** After completion of Techno-Commercial scrutiny, intimation for opening of Part-II bid will be communicated only to Techno-Commercially accepted bidders. Such intimation may be given at a short notice by Fax, E-mail or even by telephone, only to the Techno-Commercially qualified bidder(s). The bidders can view the price bids online from their location by logging on to the portal **<https://eprocuremdl.nic.in>** with their Class-III B digital signature certificate.

**13. बोलियों का मूल्यांकन/EVALUATION OF BIDS:**

- 13.1. The Bidders should meet the criteria as stipulated in "Prequalification criteria" and submit all documents as stipulated in Clause "Techno-Commercial (Part-I) Bid"
- 13.2. The Price bid of only Techno-Commercially qualified bidders shall be opened.
- 13.3. 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 Contractor or the Service provider, including all elements of costs, duties, levies, freight, insurance etc. excluding GST (where ITC is available).
- 13.4. The applicable loading towards deviations shall be loaded for ranking purpose.
- 13.5. 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 have to be considered after the said bidder is adjudged as L1.
- 13.6. Instances of multiple L1s: In cases where multiple bidders emerge as L1, 50:50 Qty to be given to each.
- 13.7. Negotiations will be done with L1 bidder.
- 13.8. However, Purchase Preference in line with PUBLIC PROCUREMENT POLICY (Preference to Make in India) ORDER 2017 shall be extended to Class I Local Supplier. Order shall be placed accordingly on offered/negotiated price with such Class I Local Supplier, if the offered/negotiated price is acceptable to MDL
- 13.9. In case Purchase Preference is not applicable, the Order shall be placed on Lowest bidder (L1) in case the offered/negotiated price of L1 bidder is acceptable to MDL.

**14. बोली ❑ स्वीकृति करनेकी मापदंड /BID REJECTION CRITERIA:**

- 14.1. 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 bid opening:
  - 14.1.1. Bids received after tender closing date and time.
  - 14.1.2. Bids received other than through e-portal.
  - 14.1.3. Bidders who are debarred under Public Procurement Policy (PPP) Make In India MII) order 2017, GeM, CPPP including Tender holiday issued by MDL.
  - 14.1.4. Bids received without EMD (other than those who are exempted from payment of EMD or those submitting valid EMD Exemption document).
- 14.2. Non-compliance/non-acceptance to any of the terms and conditions of the tender shall render the bid liable for rejection;

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 are liable for rejection.

**14.3. DISQUALIFICATION:**

Even if a bidder meets the tender terms and conditions including prequalification criteria, bidder shall be subject to disqualification if he is found to have:

- (a) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/ or;
- (b) On account of currency of debarment by MDL.

**15. बेसलाइन शेड्यूल और प्रभावित शेड्यूल /Baseline Schedule and Impacted Schedule: Not Applicable for this Tender.**





- 15.1. The Contractor to submit Baseline Schedule in MS Project, duly approved by EIC/ Consultant, before commencement of Individual Order.. In case of additional work, revised schedule to be submitted by the Contractor.
- 15.2. Extension of Time Period shall be considered for delays not attributable to the Contractor only for the activities identified in the baseline schedule/ revised schedule. No Extension to the Contract shall be considered in case of failure of submission of Baseline Schedule and Impacted Schedule for Individual Order.
- 15.3. Construction Drawings for any activity identified in the baseline schedule will be issued along with individual Order.

#### **16. समांतर दर अनुबंध/PARALLEL RATE CONTRACT:**

14.3.1. MDL reserves the right to award Parallel Rate Contracts to one or more Bidders depending upon the urgency of the requirements as per the following general guidelines:

- a) L1 Bidder – 60% of the limiting value expected during the tenure of the Rate Contract.
- b) L2 Bidder – 40% of the limiting value expected during the tenure of the Rate Contract.
- c) L2 bidder will be offered to match the quoted/negotiated price of L1 bidder before award of parallel contract. Parallel Rate Contract to the L2 bidder, as per the above ratio, shall be awarded only if L2 agrees to match the quoted /negotiated price of L1 in totality.

14.3.2. In case L2 bidder decline to match the quoted/negotiated rate(s) of the L1 bidder, the other technically qualified bidder(s) viz., L3, L4 etc. will be offered to match L1's rate(s).

14.3.3. The award of further work to a contractor shall be based on the satisfactory performance and timely completion of the allotted work.

14.3.4. If L2, L3 etc do not agree to match the L1 price for the remaining part of the work (i.e., other than that allotted to L1 bidder), the remaining part of work shall be retendered and L1 bidder shall not be allowed to participate in retendering.

#### **17. दर ँ नुबंध की ँ वधि /Period of Rate Contract:**

17.1. The successful bidder shall have to carry out the Civil work(s) at the quoted / accepted rates for a period of **TWO YEARS** from the date of Rate Contract Order. The contract may be extendable for a period of **ONE YEAR** with the same rates, terms and conditions, if the Contractor's services are found satisfactory.

17.2. This Rate Contract will only be an agreement between MDL and the Contractor to provide services at specified prices during the period covered by the contract. While the Contractor is to execute civil work during the currency of the contract at the agreed rates, it should be realized that the Rate Contract is just a standing order and will come into effect only when a separate Purchase Order for any specific work is placed.

17.3. Separate Purchase Order for specific work to be carried out under this Rate Contract will be issued by MDL from time to time as per the requirements. The Purchase Orders may be placed up to the last date of the currency of the Rate Contract but not after the expiry of the Rate Contract. However, the contractual conditions for Completion Schedule, Retention Money, Performance Bank Guarantee, Insurance, etc. will be as specified in the individual Purchase Order which may extend beyond the period of the Rate Contract.

17.4. The Rate Contract will remain in force for the purpose of completion of all works ordered during the currency of the Rate Contract until they have been completed.

#### **18. लामबंधी /MOBILIZATION:**

- 18.1. The Contractor shall deploy his manpower, material & machinery within 21 (Twenty-One) days from Placement of Contract Order & for individual Purchase Order as per TS Dept. approval.

**19. मूल्य निर्धारण /PRICING:**

- 18.1 All materials shall be procured by the contractor as specified in the Technical Specification/Bill of Quantities, at his own cost and the price quoted shall be deemed to be inclusive of all applicable taxes, transportation, storage, royalties, handling, etc. The contractor should produce challans / Invoices of the materials and its quantity brought to the site as and when required by MDL.

**20. कर और शुल्क /TAXES AND DUTIES:**

- 20.1. GST as per GST Laws shall be payable extra as quoted and agreed.
- 20.2. In case of purchases of goods/services from unregistered dealers under GST Laws, GST will be paid by MDL under reverse charge mechanism.
- 20.3. 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 unregistered 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.
- 20.4. If the vendor is registered under GST, vendor shall mention the HSN code for goods &/or SAC for 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 SAC for services is that of the vendor. MDL shall not be responsible for any error in HSN code for goods &/or SAC for 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.
- 20.5. 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.
- 20.6. 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 portal.
- 20.7. 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).



20.8. 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.

20.9. 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 unless otherwise stated in tender. 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).

20.10. **Stamp Duty:** It shall be incumbent on the Contractor to pay Stamp duty on the contract. As per the provision made in article 63, Schedule-I, read with section 30, of the Maharashtra Stamp Act (Bombay Act LX of 1958), Stamp duty is payable by the Contractor for “works contract” that is to say, a contract for works and labour or services involving transfer of property in goods (whether as goods or in some other form) in its executions and includes a sub-contract, as under:

Contract Value	Stamp Duty
a. Where the amount or value said forth in work contract does not exceed ₹ 5 Lakhs.	₹500.00
b. Where the amount or value said forth in work contract is above ₹5 Lakhs & up to Rs. 10 Lakhs	₹500.00 +0.3% of the amount above five lakhs.
c. Where it exceeds ₹ 10 lakhs	₹1000.00+0.1% of the amount above Ten Lakhs

Note: The Stamp Duty is applicable on Base value excluding GST.

20.11. Bidder(s) will not be entitled to any increase in rate of taxes occurring during the period of extended delivery schedule, if there is delay in supply / completion attributed to him. However, if there is a decrease in taxes, the same must be passed on to MDL.

20.12. Wherever all-inclusive prices are quoted by the Bidder(s) without bifurcation of tax elements, no Price Variation can be considered in respect of any variations in statutory levies arising subsequently because of the absence of the required base figures in the purchase order / contract.

20.13. Taxes and other levies shall be deducted at source, wherever applicable, from the invoices of the Contractor/Bidder as per statutes.

20.14. Any increase/decrease in taxes, duties & levies or introduction of new taxes due to change in the legislation shall be subject to adjustment During currency of the original contract period.

20.15. **LABOUR CESS:** Deduction towards Labour Cess shall be made from invoices of contractor in line with 'Building & Other Construction Workers (BOCW) Act,1996. The Contractors who are having 20 or more workers have to be registered under BOCW (RE& CS) Act,1996. The Contractor shall ensure compliance of the same, if applicable to them.



**21. भुगतान की शर्तें /TERMS OF PAYMENT:**

21.1. MDL payment terms shall be as under:

- i. The payment for work done after reducing any deductibles and/or the amount leviable towards liquidated damages, if any and after including statutory taxes, duties and levies as applicable will be made through RTGS/NEFT/ECS as per the actual quantities of the work executed by way of running account invoices per item basis (R. A.) Preferably as on monthly basis.
- ii. The invoices must be submitted in four copies (**1-Original + 3 copies**) along with the joint measurements taken at site duly approved by the designated representatives of the Technical Services department.
- iii. The payment against invoices will be made within 15 days of its receipt in MDL provided submission of invoice in totality along with all the necessary documents as under:
  - a. Invoice Certification as per **Enclosure-24**,
  - b. Joint Measurement sheets duly signed & stamped by MDL,
  - c. Soft copy of Joint Measurement sheets
  - d. SAP generated work completion certificate indicating deduction if any duly signed & stamped by MDL
  - e. Copy(s) of invoices of materials,
  - f. Vendor's self-Declaration (Refer **Clause 20.1.viii**) wherever applicable,
  - g. Certification of Disposal of Scrap/ Debris as per **Enclosure-28**
- iv. Before submission of the final bill, the Contractor should sign and submit the following:
  - a. Actual Local Content Certificate as per **Enclosure-10 (D)**
  - b. A "No Claim Certificate" indicating that he has no claim against the company under the contract except as included in the final bill.
  - c. Taking over certificate issued by Engineer In charge, MDL
- v. On request from Contractor, ad-hoc payments of not less than 75 % of eligible running account bill/due stage payment, shall be made within 10 working days of the submission of complete bill along with all applicable documents. The remaining payment is also to be made after final checking of the bill within 28 working days of submission of complete bill along with all applicable documents by the contractor.
- vi. For Items where Basic Rates of Items are specified in The Contract:
  - a. The Contractor must necessarily submit copy(s) of challan and invoice of all such materials used in the works immediately on receipt of the materials in MDL. In case, the basic rate of the material procured is less than that indicated against the respective item, the difference in the amount of basic rate of the material procured and the Basic Price indicated in the respective item in the Contract shall be deducted from the invoices.
  - b. Definition of Basic Rate: The Basic rate mention in PO item, if any, are exclusive of GST, Contractor's profit & overheads handing, carriage, etc.
  - c. In case, MDL specifically desires to adopt certain material in lieu of the material mentioned in the item in Bill of Quantities wherein the basic rate is indicated, the difference in the amount of basic rate of the material to be procured and the Basic Price indicated in the respective item in the Contract shall be paid extra over and above the quoted/ negotiated price of the item provided that MDL conveys it in writing before execution of said item. In such cases, the Contractor must necessarily submit copy(s) of challan and invoice of all such materials used in the works immediately on receipt of the materials in MDL.



vii.**Electronic Invoicing System (EIS):** In any preceding financial year from 2017-18 onwards Contractor whose turnover is more than **₹ 5 Crores** on award of Purchase order, need to issue E invoice to MDL, which has an Invoice Registration Number (IRN) and a Quick Response (QR) code. An invoice without an IRN and QR code will be treated as an invalid invoice and MDL will not be entitled for Input Tax Credit (ITC)/ GST on a vendor Invoice which is not compliant with the above invoice notification.

viii.**Vendor's self-declaration:** Wherever GST is applicable, payment will be released against **e-Invoice** (refer **TEF Clause No. (21.1.vii)** or Invoice accompanied with **Vendor's self-declaration** stating 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 the e-Invoicing provisions under GST Act, as our aggregate turnover in any preceding financial year from 2017-18 onwards has not exceeded ₹ 5 Crore as per GST Act**"

ix.**Alternate MSME vendor payment through TReDS:**

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.

MDL is registered on the "Invoicemart" TReDS platform and M1xchange of M/s Mynd Solutions Pvt. Ltd. Further, MDL has entered into an agreement with M/s.Receivables Exchange of Indica Limited (RXIL) for registration on TreDs platform. As a special gesture, all the above three discounting platforms i.e M/s.RXIL, Invoice Mart and M1Exchange have offered waiver of registration / on boarding fees to MDL Vendors MSME bidders desirous to receive payments through TReDS platform may avail the facility if they are already registered on

1."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](mailto:service@invoicemart.com).

2. "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](mailto:ashwathi.jayandran@m1xchange.com)  
+91 8839915724 Ms. Prinyaka Shah Email id [prinyaka.shah@m1xchange.com](mailto:prinyaka.shah@m1xchange.com)

## 22. वृद्धि/PRICE VARIATION:

22.1. If the prices of materials (not being materials supplied or services rendered at fixed prices by MDL and/or wages of labour required for execution of the work) increase, the Contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that such compensation in prices shall be available only for the work done during the stipulated period of the contract including such period for which the contract is validly extended under the provisions of the contract.

i.The compensation for price variation for materials and labour shall be worked out as per the formula given below.

$$Pa = Po[0.15 + 0.595(M1/M0) + 0.255(L1/L0)] / 100 - Po$$



Where

- Pa : Adjustment amount payable to the contractor on the date of performance of work
- P0 : Contract price on the base date which is taken as the date on which tender is due to open.
- L0 & L1 : L0 & L1 are the average wage indices for the quarter before the quarter in which base month falls and for the quarter before the quarter in which work done period falls; respectively. The Wage indices shall be Consumer Price Index for industrial labour(All India)declared by labour bureau, Government of India) as applicable for period under consideration and that valid at the time of receipt of tenders respectively.
- M0 & M1 : M0 & M1 are the material prices/indices as average of the month, two months prior to the month in which base month falls and average of the month, two months prior to the month in which work done period falls, respectively. The material prices/indices will be basic prices without excise duty and without any other central, state, local taxes and duties and octroi. The Material prices/indices shall be All India Wholesale Price Index for All Commodities for the period under reckoning as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce, for the period under consideration and that valid at the time of receipt of tenders respectively.

ii.The following conditions shall be applicable to price adjustment.

- a. Base dates shall be tender opening date
- b. The period of work done shall be the date of determination of price variation
- c. No price increase is allowed beyond original delivery period
- d. No price adjustment shall be payable on the contract price paid to the contractor as an advanced/interim payment after the date of such payment.
- e. Payments for each work done would initially be made as per the base price mentioned in the contract. Price adjustment bill should be submitted quarterly for the work done made during the quarter.
- f. Even if there is no price adjustment claim, contractor must submit all relevant data to prove that there is no downward variation. In any case contractor to submit declaration as follows:  
"It is certified that there has been no decrease in the price variation indices and in the event of any decrease of such indices during the currency of this contract, we shall promptly notify the same to MDL and offer requisite reduction in the contract rate as per the price variation formula.
- g. The price variation shall not be applicable for AMC amounts.

### **23. परिनिर्धारित हर्जाना /LIQUIDATED DAMAGES:**

23.1. Time is the essence of the contract and therefore the job, as ordered, should be completed on the dates mutually agreed upon in accordance with the delivery schedule. In cases of delay not attributable to MDL beyond the agreed schedule, the Contractor shall pay liquidated damages, a sum representing 0.5% (Half percent) per week or part thereof, subject to maximum of 10% of the contract value (completed value) of Individual Purchase Order.



23.2. If the Contractor fails to complete the works within the time or extended time as per the Order, then the contractor shall pay to MDL the sum stated above as liquidated damages for such default and not as a penalty for every day or part of a day which shall elapse between the time prescribed or extended time as the case may be and the date of completion of works. MDL may without prejudice to any other method of recovery deduct the amount of such damages from any monies in his hands due or which may become due to the contractor. The payment or deduction of such damages shall not relieve the contractor from his obligation to complete the works or from any other of his obligations and liabilities under the Individual Purchase Order.

**24. नुबंध निष्पादन गारंटी / CONTRACT PERFORMANCE GUARANTEE AND RETENTION MONEY:**

24.1. A Performance Bank Guarantee for 2% of the Rate Contract Limiting Value excluding taxes and having validity period considering (Contract period + DLP + 06 months), shall be submitted by the Contractors as per MDL format at **Enclosure-16** within 25 days of entering into the Rate contract to take care of the works spilling beyond Contract period.

24.2. A Security Deposit for the work done shall be recovered as “Retention Money” which shall be deducted @8% of the value of work done (excluding taxes and price variation) from each RA bill of confirmatory Purchase order. The amount so retained shall be refunded to the contractor on completion of Defects Liability Period of the Confirmatory Purchase Order.

24.3. In the event of extension of Rate Contract, fresh performance Bank Guarantee to be submitted for 2% of the cumulative value of ongoing works and completed works whose DLP has not expired. The validity of the fresh BG shall be 13 months from the latest completion period of the ongoing works. On receipt of fresh BG, duly verified by Bank, the original BG shall be returned to the Contractor. Alternatively, validity of the original BG can be extended.

24.4. In case the Contractor fails to submit fresh BG or fails to extend the validity of the existing BG, the existing BG shall be encashed.

24.5. The Bank Guarantee shall be submitted by the bidders preferably in E-BG mode or through SWIFT drawn in favour of MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI. The Bank Guarantee shall be only from the list of Banks issued by a Scheduled Commercial (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act, 1934 excluding Co-operative banks or Regional Rural Banks). The Issuing Bank Notified vide OM No.F.9/4/2020-PPD issued by Department of Expenditure dated 30.12.2021 should also state the name and designation of the next Higher Authority of the Officials who have issued the Bank Guarantee. Crossed DD / Pay Order issued by Co-operative banks however may be considered to be accepted and the bid would be considered accordingly.

24.6. The Bank Guarantee shall be from banks as per list approved by SBI Bank published on MDL website

Bank Guarantee from banks not mentioned in the aforesaid approved list shall NOT be accepted.

24.7. Rolling Bank Guarantee towards Performance Security can be submitted with the validity period of at least One year with a claim period of three months within which the same to be extended by the contractor for further period by Amendment.

24.8. In case of non-submission of PBG within 25 days of Placement of Purchase Order, there is likelihood of cancellation of the order.

24.9. In case of delays in submission of the Performance Bank Guarantee, the amount towards the Bank Guarantees shall be retained from the subsequent Invoice. The same shall be returned



to the Contractor, without interest, on submission of the Bank Guarantee and receipt of confirmation from the bank. In such case, MDL reserves the right to charge Interest @ SBAR+2% from the firm for such period of delays.

24.10. The Performance Bank Guarantee will be returned only after expiry of the 60 Days beyond the stipulated Defect Liability Period of One years from actual completion of entire work, provided there are no pending defects for rectification, already notified to the contractor. However, in cases where rectification of defects notified are not likely to be completed by the Contractor before expiry of the DLP, the Contractor will have to extend the Performance Bank Guarantee suitably or as requested by MDL.

24.11. The BG's should contain the following:

- i. The name, designation and code number of the Bank officer(s) signing the Guarantee.
- ii. The address and other details (including telephone No.) of the controlling officer of the Bank issuing the BG.

24.12. In case the validity of the Bank Guarantee is on the verge of expiry and the same is not the extended / not renewed by the contractor as per order terms, MDL reserves the right to forfeit the same.

24.13. Alternatively, bidder can submit the Performance security in the form of ISB (Insurance Surety Bond) issued by an Indian Insurance company as defined in Section 2(7A) of the Insurance Act, 1938 and the Insurer should also be registered under the Insurance Act, 1938 to transact the business of general insurance and also registered with the IRDAI. The bond shall be irrevocable and unconditional. The Format for the ISB for Performance Security is attached at **Enclosure-31**.

## **25. दोष दायित्व ँ वधि/DEFECT LIABILITY PERIOD (DLP):**

25.1. The defect liability period shall be **One Year** from the date of actual completion of entire work stipulated in the individual Purchase Order. However, in case Part of the work has been taken over by MDL, the Defect Liability Period pertaining to that part shall commence from the date of taking over of that portion by MDL. Defect Liability Period for the balance part shall commence from the date of actual completion of entire work'.

25.2. Defect Notification Period is 15 days from the last date of Defect Liability period as indicated in the individual PO.

25.3. The contractor shall have to rectify any defects noticed in the work either by way of bad material or workmanship during the Defect Liability Period at no extra cost to MDL, on priority.

25.4. CLAIMS BY FIRMS: No claims by the firms will be entertained after 03 years from completion of Defect Liability Period.

## **26. जलरोधी गारंटी /WATERPROOFING GUARANTEE-**

26.1. The Contractor(s) shall submit Waterproofing Bank Guarantee, as per MDL format at **Enclosure-17**, for the value 10% of the total amount of waterproofing works, valid for a period of 5 years from the satisfactory completion of waterproofing work, as indicated in the individual Purchase Order.

26.2. Alternatively, in case, the amount of Waterproofing Bank Guarantee is less than Rs. 10,000/-, a retention towards Water Proofing Bank Guarantee shall be made from the invoices of the Contractor which shall be released after expiry of the period of 5 years from successful





completion of the waterproofing works provided there is no defect observed during the said period required to be rectified by the Contractor.

26.3. The Bank Guarantee shall be only from banks as per list approved by SBI Bank published on MDL website. Bank Guarantee from banks not mentioned in the aforesaid approved list shall NOT be accepted

**27. जल रिसाव के खिलाफ बैंक गारंटी/ BANK GUARANTEE AGAINST WATER LEAKAGE-**

27.1. Incase of works involving roofing/cladding work, the Contractor shall submit Bank Guarantee against Water Leakage, as per MDL format at **Enclosure-18**, for the value 10% of the total amount of **roof sheeting/cladding works**, valid for a period of 5 years from the satisfactory completion of **roofing/cladding work**. The Bank Guarantee shall be submitted before completion of the project/final bill.

27.2. Alternatively, in case, the amount of Bank Guarantee against Water Leakage is less than Rs 10,000/-, a retention towards Bank Guarantee against Water Leakage shall be made from the invoices of the Contractor which shall be released after expiry of the period of 5 years from successful completion of the **roof sheeting/cladding works**, works provided there is no defect observed leading to water leakage during the said period required to be rectified by the Contractor.

27.3. The Bank Guarantee shall be only from banks as per list approved by SBI / Canara Bank published on MDL website. Bank Guarantee from banks not mentioned in the aforesaid approved list shall NOT be accepted.

**28. बीमा / INSURANCE:**

28.1. The Contractor has to keep MDL indemnified against any claims by purchasing **CONTRACTOR'S ALL RISK** insurance policy for the value of the Contract from any Insurance Company of repute.

28.2. The policy shall be obtained in the **joint names of MDL and the Contractor**, with MDL's name appearing first. The Policy should be of full value of the Contract and shall be valid till the completion of the works. Contractor shall submit the policy within 21 days from the date of placement of order or before commencement of work whichever is earlier. The Original CAR Policy shall be deposited with Engineer in Charge and copy to be submitted to HOD (OTS) and shall be extended well in time as required.

28.3. In case Contract value increases more than 10% from Original Contract value during execution of the work, the contractor shall submit the additional "**CONTRACTOR'S ALL RISK** insurance of additional contract value. No additional insurance policy is required in case the Contract value increases upto 10% of Original Contract Value or upto Rs 5 lakhs whichever is lower.

28.4. The original of policy shall be lodged with MDL.

28.5. In case Contractor fails to submit valid CAR policy of full value of contract, their workmen shall not be allowed to enter inside MDL premises/ working areas and Engineer-In-Charge may issue prior Notice for Stoppage of work.

28.6. In case the total value of ongoing works (Incomplete Works) awarded to the Contractor(s) exceed the aforesaid amount(s) during the tenure of the Rate Contract, supplementary CAR policies, as applicable, shall have to be submitted by the contractor.

**29. ठेकेदार का दायित्व /CONTRACTOR'S OBLIGATION:**

29.1. Bidder shall abide by all Terms of Tender Enquiry (TEF), General Conditions of Contract (GCC) for Civil Works and respective acceptance formats **are to be filled as appearing online in e-Techno-Commercial (Part-I) bid**. The bidder shall also abide by the statutory requirements, Official Secret Acts 1923, Safety Code and Security Procedure, which can be downloaded from [www.mazagondock.in](http://www.mazagondock.in) → Tenders → Technical Services.

29.2. **Breach of Obligation with respect to Bid submitted:** 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:

- i. Bidder has withdrawn / modified / amended / impaired / derogated from the tender during the period of bid validity
- ii. Bidder fails or refuses to execute the contract upon notification of acceptance of bid by the Purchaser during the period of bid validity.

**30. नियम और शर्तों की स्वीकृति/ACCEPTANCE OF TERMS AND CONDITION:**

30.1. In case of improper on-line filling of Acceptance Formats for Tender Enquiry Form, General Conditions of Contract (GCC), it shall be presumed that all our tender terms & conditions are acceptable to bidder.

**31. कार्य एवं माप का क्रियान्वयन /EXECUTION OF WORK AND MEASUREMENT:**

31.1. All works shall be carried out and measured as per specifications and standard Engineering practice and mode of measurements, conforming to the relevant IS code. The Contractor shall ensure that skilled workmen in their respective trades are employed. He shall also employ qualified Engineer(s) / Supervisor(s) experienced in similar type of work, as required, for execution of work efficiently.

31.2. Request for permission for working on Saturday / Sunday / holidays if required, should be submitted 3 working days prior to the date of holiday, to Personnel department and Security through Technical Services Department.

31.3. The work is to be carried out in the area where MDL's normal activities are in progress. The Contractor has to plan his work in such a way as not to disturb the normal activities of MDL. The contractor shall not be paid for any compensation for idle period if generated due to any reason whatsoever. Reasonable extension in time, however, may be considered on application in writing along with supporting Documents.

31.4. All the quantities indicated in the Bill of Quantities are indicative only. However, the Contractor shall be paid for the actual work carried out at site in line with the individual Purchase Order/Contract terms and conditions.

31.5. All the works under or in course of execution or executed in pursuance of the contract shall at all times be open to inspection and supervision of the MDL and the Contractor at all times during the usual working hours, offer assistance for the inspection of work. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

31.6. The Contractor shall submit supporting documents such as Invoice of Materials, Delivery Challan(s), Release note from the nominated Inspection Agency, Test reports / Certificates, Packing Lists, Invoice, Performance Guarantee, Storage / Preservation / Installation / Commissioning / Maintenance Procedures & other Technical documentation in requisite sets as relevant along with the invoice for the purpose of certification by MDL.



31.7. Contractor shall submit Reconciliation Statement for Steel, Cement, Concrete and other materials along with invoice for checking/ verification by MDL Executives before certification and processing of invoice.

31.8. Contractor shall be responsible for procuring all the materials required for construction. Contractor shall arrange for testing of materials from approved laboratory and submission of test certificates as per specification in accordance with relevant IS Codes. The cost towards testing is deemed to be included in the quoted rates.

31.9. All construction materials procured by the contractor should be of approved quality and free from defects. MDL has got all the Rights to Test and Reject any material in part or in full at any point of time. MDL reserves the right to take random samples from materials delivered by the Contractor at site and send the same for testing at Govt. approved laboratory(s). Cost towards the same shall be borne by the Contractor.

31.10. The contractor shall give seven days' notice for MDL to arrange representatives for inspection at their works. Testing of samples shall be made in the presence of MDL representatives. Materials shall be delivered to MDL site only after clearance from MDL along with test certificates. MDL reserves the right to take random samples from materials delivered by the Contractor at site and send the same for testing at Govt. approved laboratory(s). Cost towards the same shall be borne by the Contractor.

31.11. Contractor shall arrange for equipment's / instruments with valid calibration certificate as required at site. The cost towards the same is deemed to be included in the quoted rates.

31.12. The Contractor shall comply with the sanitary requirements of the local Medical Health Authorities and bear the cost of any charges levied by such Authorities for the execution of work.

31.13. Availability of Construction material

During the tenure of the Contract due to the various reasons, there may be scarcity of availability of construction material in Mumbai region & this type of crises may be for short term or long term. In such circumstances, Contractor shall arrange to procure the Material available from other state/region of India with no additional cost to MDL. The cost of the same is deemed to be included in Bidder's quote.

31.14. For Works involving Concreting: -

(a) Where ever cube test is required as per IS Code – satisfactory test result of 07 days cube test is must for accepting the work for certification / payment.

(b) In case of non-receipt of 28 days Cube Test Reports, 10% of the amount pertaining to concreting items to be kept on hold till its submission.

31.15. Special Condition of Contract.

**a. GENERAL GUIDELINES FOR POSTING OF TECHNICAL STAFF FOR THIS WORK AT SITE.**

- i. **Manpower deployment** :-On award of work, Contractor to submit an organogram highlighting site team as well as office staff. Nevertheless, a minimum technical team staff as detailed below is required at site failing which suitable recovery shall be made.:





Sr. No.	Designation Technical Staff	Total No's	Qualifications	Minimum Experience (Years)	Duration	Rate at which recovery shall be made from the contractor in the event of not fulfilling
1	2	3	4	5	6	7
A	<b>L1 Contractor</b>					
1	Graduate Engineer (Civil)	1	Project Manager	10 (and having experience of one similar nature work)	Till completion of work	Rs. 30,000/- per month .
2	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)	1	Project/ Site Engineer	5 OR 10 respectively	Till completion of work	Rs. 25,000/- Per Month
3	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)	1+1	Planning/quality/ billing Engineer	2 OR 5 respectively	Till completion of work	Rs. 15,000/- Per Month Per Engr.
4	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)	1+1	Project Planning/quality/ billing Engineer	2 OR 5 respectively	Till completion of work	Rs. 15,000/- Per Month Per Engr.
A	<b>L2 Contractor</b>					
1	Graduate Engineer (Civil)	1	Project Manager	5 (and having experience of one similar nature of work)	Till completion of work	Rs. 25,000/- Per Month
2	Graduate Engineer (CIVIL) OR Diploma Engineer (Civil)	1+1	Project Planning/quality/ billing Engineer	2 OR 5 respectively	Till completion of work	Rs. 15,000/- Per Month Per Engr.

- Note: i. Monthly deployment of staff means a minimum work for 22 days at site.  
 ii. Contractor to maintain daily attendance register, duly endorsed by EIC.  
 iii. All the above Technical staff shall be deputed full time (BRC Work). Contractor May depute in addition to above Technical Staff if required.

**b. Site Logistics:**

- i. Contractor shall make his own arrangement if necessary for Porta-cabin for their site personnel along with necessary furniture, COMPUTER, PRINTERS, storage cupboards etc. at his own cost.
- ii. Contractor shall make godown for if necessary storage of cement and construction material at his own cost.  
The materials at a) and b) above should be dismantled and taken back by the Contractor on completion of the work at his own cost.

**c. Contractor's Barricades:**

- i. Contractor shall arrange to barricade the area where debris and construction materials are stored with relevant board indicating name of Contractor, work and its duration. Contractor shall arrange to clear the debris on regular basis and keep the surrounding clean at all times.
- ii. Contractor shall erect and maintain at his own cost barricades required in connection with his operation to guard or protect the storage and site offices etc.
- iii. The Contractor has to provide Sign board at site with detailed name of project, name of client and name of Contractor at the entrance of the site and shall be clearly visible without any extra cost to MDL.
- iv. The Contractor shall also comply with the provisions of Environment Protection Act with regard to air, water & noise pollution without any extra cost to MDL.

**d.** Non compliance of PBG, CAR & Staff deployment will lead to stoppage of work with prior notice.

**32. नुबंध की निगरानी/MONITORING OF CONTRACT:**

32.1. The Contractor shall record; submit to the Engineer daily, progress report for the preceding day showing up to date progress and progress during the previous day on all items of each section of the works in relation to and in consideration of the schedule. In addition, the Contractor shall submit on the second day of every fortnight, a detailed progress report giving the progress of the works during the preceding fortnight and also indicating the up to date progress of the work.

32.2. The Contractor shall appoint the Contractor's Representative with prior written approval from the MDL and shall give him all authority necessary to act on the Contractor's behalf under the Contract.

32.3. The Contractor shall not, without the prior consent of the MDL, revoke the appointment of the Contractor's Representative or appoint a replacement.

32.4. The Contractor's Representative shall, on behalf of the Contractor, receive instructions from MDL.

32.5. The Contractor's Representative may delegate any powers, functions and authority to any competent person, and may at any time revoke the delegation. Any delegation or revocation shall not take effect until the Purchaser has received prior notice signed by the Contractor's Representative, naming the person and specifying the powers, functions and authority being delegated or revoked. The Contractor shall appoint a team of qualified persons having adequate experience in execution of such works for assisting the Contractor's Representative.

32.6. The Contractor has to co-ordinate with the other specialised agencies so working on the project so as to ensure a proper end product of the work.

**33. ठेकेदार का दायरा/CONTACTOR'S SCOPE:**

33.1. **Power:** Power, if available and required by the Contractor, may be supplied in single phase or three phases, at a single nearby source free of cost. The contractor shall make his own arrangement for electrical fittings, cables/wires, welding transformers, etc. at his own cost.

33.2. **Water:** Water, if available, and required by the Contractor, may be supplied by MDL free of cost. However, the contractor shall make his own arrangement for connecting lines, storage etc. at his own cost.

33.3. **Equipment/Machinery:** The contractor shall make his own arrangement for all equipment, machinery, tools and tackles etc.

33.4. **Construction Material:** All the materials required for works procured by the Contractor shall be of repute make and as approved by MDL. The rate shall be inclusive of transportation, storage, security, handling etc.

33.5. **Consumables:** All the consumables required for the works including temporary works, allied/ associated job etc. shall be procured by the Contractor including transportation, storage, security, handling etc.

**34. □ तिरिक्त कार्य /EXTRA ITEMS/VARIATION IN QUANTITY:**

34.1. Extra items of works, if any, shall be determined supported by a rate analysis which needs to be submitted by the Contractor. The Rate Analysis shall contain bifurcation of Material, Labour, transportation and Overhead and Profit Components:

i. Rates derived from similar items of this Contract.

**OR**

ii. Rates for similar items of work executed through other agencies for MDL recently.

**OR**

iii. Rates mutually agreed to.

34.2. Variation in the quantities of items in the BOQ is permitted for individual Purchase Orders at the same rates. The same is binding to the contractor and the contractor shall execute the same at the specified rate in the Purchase Order for that item.

34.3. MDL reserves the right to conduct price negotiations with the Contractor in the following cases:

i. Finalization of rates for extra items.

**35. बाधा / HINDRANCE:**

35.1. A Hindrance Register as per attached format at **Enclosure-22** shall be maintained with the Designated Representative from TS Department. The Contractor shall submit schedule for completion of work and get it signed by MDL Engineer in charge of the project. The Schedule shall list out the major milestones leading to the completion of work as per final delivery date stipulated in the PO/Contract.

35.2. The Hindrance Register shall document the following aspect post placement of the PO/ Contract: -

- i. Reasons for the delay vis-à-vis the mutually agreed schedule
- ii. Delay in inputs (Drawings/ Documents/ Site Clearances/ Services/ Inspection Call)
- iii. Delay by Inspection Agency/ Customer
- iv. Delay on account of specialist services
- v. Non-performance by the Contractor
- vi. Delinquency by the vendor



- vii. Force Majeure
- viii. Any other relevant reason

35.3. All the hindrances with date of occurrence and removal are to be noted in the hindrance register. The Hindrance Register will be signed by the Designated Representatives from Technical Services Department (MDL) and the authorized Signatory from the Contractor side.

35.4. The Contractor may record their observations in the hindrance register. Any objections raised by the contractor shall be attended to and resolved without any delay.

35.5. In case the contractor has a different opinion for hindrance and a dispute arises, then the matter shall be referred to next higher authority in MDL and the decision shall be communicated to the Contractor within 15 days. The Contractor shall note that the decision of the next higher authority from MDL in case of dispute in respect of hindrances during the course of executing an order/ contract shall be final and binding on the contractor.

35.6. In case, MDL is unable to remove the hindrance immediately and if it is likely to take some time, the contractor shall be informed accordingly by the user. In such cases the contractor on MDL's approval may reduce manpower deployed on the work. **The Contractor shall also note that Under no circumstances Contractor shall be paid for idle manpower.**

### **36. कचराहटाना /DEBRIS REMOVAL/ स्वच्छता/HOUSEKEEPING:**

36.1. Debris generated during execution of work shall be promptly disposed of outside MDL. The site will be maintained clean at all times and the Contractor is expected to budget for the same. Also, during dignitary visits, temporary works materials, debris etc. shall be shifted suitably without any additional cost to MDL.

36.2. In case debris is not removed within two days, MDL will remove the same and the charges towards debris removal @ Rs. 10,000/- per truck shall be deducted from Contractor's RA bills. Engineer-In-charge shall keep the record of the same and forward the details of recoveries in Invoice Certification.

36.3. The site will be maintained neat and clean at all times and the Contractor is expected to budget for the same. MDL has Designated Bins separately for Scrap Steel, Wood Scrap & Rubbish. Contractor shall segregate unusable scrap steel, wood, rubbish, if any, and deposit the same in the nearest respective bin.

36.4. The contractor to submit Certification of Disposal of Scrap/ Debris as per **Enclosure-28**

### **37. सुरक्षा और प्रशिक्षण /SAFETY AND TRAINING:**

37.1. During the Construction Period, Safety Engineers shall be deputed on site as and when required and directed by MDL. This is mandatory requirement.

37.2. All the workers, Engineers of the contractor shall have Safety PPE's (Personnel Protective Equipment's) like Safety Helmets, Safety Shoes, Safety Belts, Hand Gloves, and Goggles etc. Contractors shall also have provision for minimum 5 to 10 visitors PPE's. The periphery of the building shall be covered with the Green net. The contractor shall also provide Safety net and Safety Belts for height work.

37.3. All workers on site shall adhere to the best safety practices applicable. All personal, process & material safety procedures shall be planned & implemented on site. Training & regular inspection shall ensure that safety standards are met.



- 37.4. First Aid kit & First aid training shall be given to all key members of the Site team.
- 37.5. Proper signage's shall be placed on site. Warning in case of any critical/hazardous activity shall be given prior to starting of such activity.
- 37.6. All workers, supervisor's contractor shall optimum training regarding all aspects of site management prior to commencement of work
- 37.7. Please refer Safety Instruction for sub Contractor's as Enclosed at **Annexure 'A'**.

**38. ठेकेदार के कर्मचारियों का पुलिस सत्यापन /POLICE VERIFICATION OF CONTRACTOR's EMPLOYEES:**

38.1. The Contractor shall have to obtain Police Verification Report (PVR) of their Employees prior to deployment at MDL site for execution of the work. A Detailed procedure for Entry Passes for Contractor's Employees is displayed on MDL's website [www.mazagondock.in](http://www.mazagondock.in) → Tenders → Technical Services. In addition to this for loss of pass, bidders shall refer **Enclosure-23. BIDDERS ARE REQUESTED TO NOTE THE SAME. NO RELAXATION SHOULD BE ASKED FOR.**

**39. प्रतिबंध निविदाकार/फर्म/विक्रेता/BANNED OR DE-LISTED TENDERER/FIRMS/ VENDORS:**

39.1. The Bidder / 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 Tenderer'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 in the prescribed format **online** at **Enclosure11**. Filling the information in the said format is Mandatory for every Tenderer. MDL reserves the right to ask for additional information and right to accept /reject the bid.

**40. मूल्य वरीयता /PRICE PREFERENCE:**

40.1. No Price Preference Shall Be Given to Any Bidder Irrespective of Their Status.

**41. सार्वजनिक खरीद नीति (मेक इन इंडिया को प्राथमिकता) आदेश 2017/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 16<sup>th</sup> 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:

41.1. **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 duties) as a proportion of the total value in percent.

**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.



- ii. **Class-I Local Supplier:** means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class-I Local Supplier' under this Order.
- iii. **Class-II Local Supplier:** means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class-II Local Supplier' but less than that prescribed for 'Class-I Local Supplier' under this Order.
- 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. **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%.
- vi. **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.
- vii. **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:**

- 1. Procedure for determination of L1 price for the purpose of deciding eligibility for Purchase Preference shall be as per tender Ranking criteria.
- 2. If Price/s of all Class I Local Supplier/s is more than 20% of L1's price, no purchase preference shall be applicable.

- 41.2. **Purchase Preference (PP):** Subject to the provisions of the Order and to any specific instructions issued by the Nodal Ministry or in pursuance of the Order, purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified here under:

In the procurements of goods or works, which are divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

- a. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
- b. In case of parallel contracts tender Purchase Preference to Class I Suppliers shall be applicable and shall be accorded in accordance with para 3B Order Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020 or amended thereon.

41.3. **Reciprocity Clause:**

- i) 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.
- ii) The term 'entity' of a country shall have the same meaning as under the FDI policy of Department for Promotion of Industry and Internal Trade(DPIIT) as amended from time to time.

**41.4. 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.

The bidders shall provide a certificate, as per **Enclosure-10(B)**, 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) 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 Para 41.6 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 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 through MDL Nodal Executive. Meanwhile, retendering may be done without applying the provisions of said Order for need fulfilment of MDL.
- 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.

**41.5. 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 vendors maintained or increased but not reduced.

The supplier shall provide a Local Content Certificate **Enclosure-10(D)**, from 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) giving the percentage of local content.

- ii) 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.

**41.6. Debarment of bidders / suppliers:**

- 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.

**42. सामान्य वित्तीय नियमों के नियम 144 (xi) के तहत प्रतिबन्ध/ Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017:**

42.1. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.

42.2. "Bidder" (including the term 'tenderer', 'Consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

42.3. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -

- a) An entity incorporated, established or registered in such a country; or
- b) A subsidiary of an entity incorporated, established or registered in such a country; or
- c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d) An entity whose *beneficial owner* is situated in such a country; or
- e) An Indian (or other) agent of such an entity; or





- f) A natural person who is a citizen of such a country; or
- g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

42.4. The beneficial owner for the purpose of **42.3** above will be as under:

- i. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(S), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation---

- a) "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
- b) "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements.
- ii. In case of a partnership firm, the beneficial owner is the natural person(S) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- iii. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- iv. Where no natural person is identified under **(42.4.i) or (42.4.ii) or (42.4.iii)** above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- v. In case of a trust, the identification or beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

42.5. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

42.6. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

42.7. The bidders shall provide Declaration in respect of restriction under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 in the prescribed format as per **Enclosure-10 (E)**

#### **43. सार्वजनिक शिकायत कक्ष /PUBLIC GRIEVANCE CELL**

- 43.1. A Public Grievance Cell headed by **Executive Director (Tech)** has been set up in the Company. Members of public having complaints or grievances are advised to contact him on Wednesday between 10:00 hours and 12:30 hours in his office on **4th Floor, D2 Building, East yard, MDL** or send their complaints / grievances to him in writing for redressal. His Telephone No. is **022- 2376 3512 / 2372 3426 / 8879399826**

#### **44. विवाद समाधान तंत्र /DISPUTE RESOLUTION MECHANISM(DRM) and मध्यस्थता /ARBITRATION:**

- 44.1. Refer General Conditions of Contract Clause No. 23,24,25.

#### **45. □ अधिकार क्षेत्र /JURISDICTION:**

- 45.1. Refer General Conditions of Contract Clause No. 26.

**46. एमडीएल का अधिकार /MDL's RIGHT:**

- 46.1. MDL reserves the right to consider placement of Order / Contract in part or in full against the tendered quantity or reject any or all tenders without assigning any reasons thereof.
- 46.2. Wherever there is conflict between clauses of General Condition of Contract (GCC) and Special Condition of Contract, the provisions in Special Condition of Contract shall prevail over those in the GCC.

**47. बोलीदाताओं / एजेंटों के बिच हितों का टकराव / CONFLICT OF INTERESST AMONG BIDDERS****/AGENTS:**

- 47.1. Conflict of Interest among bidders/ Agents: A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of MDL's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:
- a) They have controlling partner(s) in common; or
  - b) They receive or have received any direct or indirect subsidy/ financial stake from any of them; or
  - c) They have the same legal representative/agent for purposes of this bid; or
  - d) They have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
  - e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid.
  - f) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/ management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidder must proactively declare such sister/ common business/ management units in same/ similar line of business.
- 47.2. Declaration in respect of Conflict of Interest among Bidders/ Agents as per format at **Enclosure-29** is to be submitted by bidder.

We look forward to your participation in on-line bidding by offering your most competitive and reasonable bid against this tender.

Yours faithfully,  
For **MAZAGON DOCK SHIPBUILDERS LIMITED,**

GM/HOD (OTS)

**Enclosures:**

1.	Enclosure-1	-	Form of undertaking to be furnished by the bidder
2.	Enclosure-2	-	Tender Enquiry Acceptance Form
3.	Enclosure-3	-	Details Of General Construction Work
4.	Enclosure-4	-	General Conditions of Contract (GCC) Acceptance Form- GCC attached separately.
5.	Enclosure-5	-	Deviations from Tender Enquiry Form/ GCC
6.	Enclosure-6	-	Financial Information of Bidder
7.	Enclosure-7	-	Details of Existing Commitments & On-going Works- Calculation of Bid capacity.
8.	Enclosure-8	-	Particulars of Experience in Similar Projects
9.	Enclosure-9	-	Personnel available with the Contractor for this Project
10.	Enclosure- 10(B)	-	Declaration Certificate for Local Content <b>(Sample Filled up Form for Filling Enclosure-10 (B) ATTACHED SEPERATELY)</b>
11.	Enclosure- 10(D)	-	Actual Local Content Certificate
12.	Enclosure- 10 (E)	-	Declaration in respect of restriction under Rule 144 (xi) of the General Financial Rules (GFRs), 2017
13.	Enclosure- 10 (F)	-	Declaration in respect of debarred under Public Procurement Policy (PPP) Make In India (MII) order 2017
14.	Enclosure-11	-	Banned or Delisted of Firm/Vendor
15.	Enclosure-12	-	MDL Bank Account Details for Online Remittance of Security Deposit/ Performance Bank Guarantee
16.	Enclosure-13	-	Integrity Pact
17.	Enclosure-14	-	RTGS/NEFT/ECS – Mandate Authorisation Form
18.	Enclosure-15	-	Bank Guarantee format for Bid Bond / EMD
19.	Enclosure-16	-	Performance Bank Guarantee Format
20.	Enclosure-17	-	Performa for Waterproofing Bank Guarantee
21.	Enclosure-18	-	Performa for Bank Guarantee against water leakage
22.	Enclosure-19	-	Price Bid (Part-II) - <b>to be submitted online</b>
23.	Enclosure-20	-	List of Drawings.- <b>Not applicable for this tender</b>
24.	Enclosure-21	-	Scope of Work, Preferred Make List and Technical specifications- <b>Attached separately at Enclosure-21</b>
25.	Enclosure-22	-	Hindrance Register Format
26.	Enclosure-23	-	Loss of Pass
27.	Enclosure-24	-	Invoice Certification Format
28.	Enclosure-25	-	Extract of Official Secrets Act, 1923
29.	Enclosure-26	-	CHECKLIST OF SUBMITTALS ATTACHED ALONGWITH ONLINE TECHNICAL BID
30.	Enclosure-27	-	Address Label
31.	Enclosure-28	-	Certification for Disposal of Scrap/Debris
32.	Enclosure-29	-	Declaration in respect of Conflict of Interest among Bidders/ Agents
33.	SAMPLE FORMAT	-	SAMPLE FORMAT FOR FILLING ENCLOSURE-10 (B) OF TENDER
34.	Statutory requirements & Safety clause	-	To be downloaded from our website <a href="http://www.mazagondock.in">www.mazagondock.in</a>



<b>35.</b>	Procedure for security passes	-	<u>To be downloaded from our website <a href="http://www.mazagondock.in">www.mazagondock.in</a></u>
<b>36.</b>	ANNEXURE-A		<u>SAFETY INSTRUCTIONS FOR SUB-CONTRACTORS IN MDL, attached separately</u>
<b>37.</b>	ANNEXURE-B		<u>STANDARD TERMS AND CONDITION (HR) FOR STATUTORY COMPLIANCE WHILE ENGAGING SUB-CONTRACTORS/ OUTSOURCED MANPOWER AND ITS UNIT attached separately</u>

**Enclosure-1****FORM OF UNDERTAKING TO BE FURNISHED BY THE BIDDER**

(To be typed on Bidder's Letter head)

To,  
The General Manager (OTS),  
OTS-TS Section  
Mazagon Dock Shipbuilders Limited,  
Dockyard Road, Mumbai-400 010.

Sir,  
**Sub: Biennial Rate Contract (2025-2027) for Major Civil Works in Various buildings / Workshops in MDL Yards at Dockyard Road, Anik Chembur, Nhava, Gavhan, South Yard Annexe, Residential quarters at Dockyard Road, Vashi and Belapur**

**Ref: MDL Tender Enquiry No. 1900000231**

1. Having visited the site and having examined the General Conditions of Contract, Special Conditions of Contract, Technical Specifications and Bill of Quantities for the above named work, we offer to construct, complete and maintain the whole of the said works in conformity with the said General Conditions of Contract, Special Conditions of Contract, Technical Specifications, and Bill of Quantities for the sum stated in Bill of Quantities included in this Tender Document for such other sum as may be ascertained in accordance with the said conditions of Contract.
2. We undertake to complete and deliver the whole of the works comprised in the Contract within the time stated in this tender.
3. We have independently considered the amount of Liquidated damages indicated in the tender and agree that it represents a fair estimate of the loss likely to be suffered by you in the event of the work(s) not being completed in time.
4. If our Tender is accepted, we will, when required, obtain the guarantees from a Bank (to be approved by you) to be jointly and severally bound with us for the sum named in the tender for the due performance of the Contract under the terms of a Bond to be approved by you.
5. The Contractor's All Risk Policy for the full value of the Contract valid till the completion period will be obtained by us in the joint names of Mazagon Dock Shipbuilders Limited and ourselves.
6. We agree to abide by this Tender for the period of **180** days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiry of this period.
7. Unless and until a formal Agreement or Order is prepared and executed, this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
8. We understand that if our Tender-Bid is accepted, we are to be jointly and severally responsible for the due performance of the Contract.
9. We understand that you are not bound to accept the lowest or any Tender you may receive.
10. We undertake to comply with the Anti-profiteering provisions of GST Act 2017 and we will pass on the benefits from reduction in the rate of Tax/input Tax credit if any, to MDL and there will be no liability on MDL on account of GST/Input Tax Credit.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ (year)

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

duly authorised to sign Tenders for and on behalf of \_\_\_\_\_

(IN BLOCK CAPITALS)

Witness:

Signature \_\_\_\_\_ Address of Witness \_\_\_\_\_

Name \_\_\_\_\_ Occupation \_\_\_\_\_



**TENDER ENQUIRY (TEF) ACCEPTANCE FORM**

To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED

**TENDER ENQUIRY No. 1900000231**

TEF CLAUSE NO.	TENDERER'S REMARK	TEF CLAUSE NO.	TENDERER'S REMARK
	ACCEPTED/ DEVIATION		ACCEPTED/ DEVIATION
1		25	
2		26	
3		27	
4		28	
5		29	
6		30	
7		31	
8		32	
9		33	
10		34	
11		35	
12		36	
13		37	
14		38	
15		39	
16		40	
17		41	
18		42	
19		43	
20		44	
21		45	
22		46	
23		47	
24			

COMPANY'S NAME & ADDRESS : SIGNATURE:

DATE:

NAME:

DESIGNATION:



TENDERER'S COMPANY

SEAL:

NOTES :

1. Bidder(s) should carefully read the Tender Enquiry Terms & Conditions (TEF) included in the tender prior to filling up this acceptance format.
2. Bidder(s) should indicate Accepted/ Deviation Taken for each clause number in the above table.
3. 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 in the prescribed format indicated at **Enclosure-5**.
4. TEF clause numbers shown in the above format also includes the sub-clauses under these clauses. For example 4 means – clause nos. 4, 4(i), 4(ii) etc.

**Enclosure-3**

To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**Details of General Construction Work**

*(To be typed on Bidders Letterhead & submitted)*

Sr. No	Financial Year	Particulars	Amount in Rs.
1		Annual turnover of general Civil work in any of the year over a period of 07years, ending 31st March 2024	
2		Out of the above, annual turnover in the relevant year from Civil Work	

\_\_\_\_\_  
Signature of Chartered Accountant  
with Seal

\_\_\_\_\_  
Signature and Seal of the Bidder

**ACCEPTANCE FORM FOR GENERAL CONDITIONS OF CONTRACT (GCC)**

To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED

**TENDER ENQUIRY No. 1900000231**

<b>GCC CLAUSE No.</b>	<b>TENDERER'S REMARK</b>	<b>GCC CLAUSE No.</b>	<b>TENDERER'S REMARK</b>	<b>GCC CLAUSE No.</b>	<b>TENDERER'S REMARK</b>
	ACCEPTED/ DEVIATION		ACCEPTED/ DEVIATION		ACCEPTED/ DEVIATION
1		38		75	
2		39		76	
3		40		77	
4		41		78	
5		42		79	
6		43		80	
7		44		81	
8		45		82	
9		46		83	
10		47		84	
11		48		85	
12		49		86	
13		50		87	
14		51		88	
15		52		89	
16		53		90	
17		54		91	
18		55		92	
19		56		93	
20		57		94	
21		58		95	
22		59		96	
23		60		97	
24		61		98	
25		62		99	
26		63		100	
27		64		101	
28		65		102	
29		66		103	
30		67		104	
31		68		105	
32		69		106	
33		70		107	
34		71		108	
35		72		109	
36		73		110	Not Applicable
37		74			



COMPANY'S NAME & ADDRESS:

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---

---

SIGNATURE:

DATE:

NAME:

DESIGNATION:

TENDERER'S COMPANY

SEAL:

NOTES:

1. Bidder(s) should carefully read the General Conditions OF CONTRACT (GCC) of the Tender Enquiry prior to filling up this acceptance format.
2. Bidder(s) should indicate Accepted/ Deviation Taken for each clause number in the above table.
3. 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 in the prescribed format indicated at **Enclosure-5**.
4. Clause numbers shown in the above format also includes the sub-clauses under these clauses. For example, Clause no. 56 means – Clause nos. 56, 56 i), 56 a) etc.



**Enclosure-5**

**To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

**DEVIATIONS FROM CONDITIONS OF TENDER ENQUIRY FORM/GCC/ Technical specification**

All deviations from the Conditions of Tender Enquiry Form/ GCC shall be filled in by the bidder clause by clause in this Schedule. If deviations are discussed in the covering Letter of Tender, then reference to the said letter shall be made below. (Mention "NIL", in case no deviation)

Clause No.	Contractual requirement	Deviation proposed by the Bidder	Reason for proposed deviation
(1)	(2)	(3)	(4)

The Bidder hereby certifies that the above mentioned are the only deviations from the Conditions of Contract.

COMPANY SEAL	SIGNATURE	_____
	NAME	_____
	DESIGNATION	_____
	COMPANY	_____
	DATE	_____



To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**Financial Information of Bidder**

*(To be typed on Bidders Letterhead & submitted)*

Desc ription	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	Maximum Value ₹
	V	W	₹ X	₹ Y	Z	(A)
Maximum value of engineering (Civil) works						
Above Value updated at the current price level by applying a weightage of 7% per annum						

\_\_\_\_\_  
Signature of Chartered Accountant  
with Seal

\_\_\_\_\_  
Signature and Seal of the Bidder

**Enclosure-7**

To,  
**OTS-TS SECTION**  
**OTS DEPARTMENT**  
**MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

**Details of Existing Commitments & On-going Works**

*(To be typed on Bidders Letterhead & submitted)*

1	2	3	4	5	6	7	8
Sr. No.	Name of the Work/Project	Contract Value (₹)	Date of start as per PO/Contract	Date of Completion as per PO/Contract	Work Done up to the preceding Month of submission of Bid (₹)	Value of existing commitments and on-going works to be completed (for all the Clients of the Bidder) during the period of completion of work for which bids have been invited (₹)	Value updated at the current price level (□)

**Note: The bidder shall also include the value of all such works which are awarded to bidder but yet not started up to the last day of preceding month of submission of bid.**

**CALCULATION OF AVAILABLE BID CAPACITY**

- (a) Available Bid Capacity =  $[A \times N \times 1.5] - B$ , where
- A = Maximum value of engineering (Civil) works executed in any one year during the last five years (updated at the current price level by applying a weightage of 7% per annum), taking into account the completed as well as works in progress. Value of engineering works executed during last five years shall be certified by Chartered Accountant and shall be considered for evaluation.
  - N = Number of years prescribed for completion of work for which bids have been invited = 2 (24 Months).**
  - B = Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years. This statement should be submitted duly verified by Chartered Accountant.

Note: -

- The yield rate of GoI bonds as on the closing date of the tender shall be considered as discounting factor for updation of the value of "B".



**Available Bid Capacity = ₹**\_\_\_\_\_

**Note: The bidder should attach the proof for 'A' & 'B' mentioned above.**

\_\_\_\_\_  
Signature of Chartered Accountant  
with Seal

\_\_\_\_\_  
Signature and Seal of the Bidder

**PARTICULARS OF EXPERIENCE IN SIMILAR PROJECTS**

The General Manager,  
OTS Department,  
6<sup>th</sup> Floor, Service Block Bldg. NY,  
Mazagon Dock Shipbuilders Limited,  
Dock Yard Road,  
Mumbai - 400010, INDIA

Sir,

**Sub: Biennial Rate Contract (2025-2027) for Major Civil Works in Various buildings / Workshops in MDL Yards at Dockyard Road, Anik Chembur, Nhava, Gavhan, South Yard Annexe, Residential quarters at Dockyard Road, Vashi and Belapur**

**Ref: MDL Tender No. 1900000231.**

With reference to the above and after having read the terms & conditions in the Tender Enquiry, we wish to submit our bid for consideration of pre-qualification under **Clause 7.1.1.1/7.1.1.2/7.1.1.3** (*strike out whichever is not applicable*) of the tender. The details of similar projects as stipulated in the tender enquiry form and completed satisfactorily by us are as under:

**Clause 7.1.1.1:** Three similar completed works each costing not less than **₹ 567 Lakhs.**

Sr. No	PO No & Date	Completion Cost	Work order (Submitted/Not submitted)	Completion Certificate (Submitted/Not Submitted)
1				
2				
3				

**OR**

**Clause 7.1.1.2:** Two similar completed works each costing not less than **₹ 708 Lakhs.**

Sr. No	PO No & Date	Completion Cost	Work order (Submitted/Not submitted)	Completion Certificate (Submitted/Not Submitted)
1				
2				

**OR**

**Clause 7.1.1.3:** One similar completed work costing not less than **₹ 1133 Lakhs.**

Sr. No	PO No & Date	Completion Cost	Work order (Submitted/Not submitted)	Completion Certificate (Submitted/Not Submitted)
1				

2. The brief details of above similar projects are as under: (Use separate sheet for each work)

i.	Project Name:	
ii.	Project Location	
iii.	Client:	
iv.	Address of the Client & contact person with Tel No. & Fax No	
v.	Brief Description of the work	
vi.	Cost of project	
vii.	Contract/Work order No:	





viii.	Completion Certificate details viz, ref. No & date of issue	
ix.	Date of Commencement of Work	
x.	Date of completion work	

3. The following documents in support of the above similar projects are enclosed in our techno-commercial bid:
1. Copy of Work Order/Contract Agreement indicating contract amount, Project/Work value, Scope of Work & other details with signature of Both Parties.
  2. Work Completion Certificates issued by the Client(s) indicating proper reference of Contract Agreement & Date of Completion.
  3. Any other document (*please specify*)
4. We further agree to produce originals of the documents submitted in respect of the similar projects detailed above for verification by MDL as and when called for.

Signature of Contractor:

Name and Address:

Place:

Date:

Official Seal

**Enclosure-9**

**To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

**KEY PERSONNEL AVAILABLE WITH THE CONTRACTOR FOR THIS PROJECT**

*Bidders should provide information of personnel of relevant discipline (Engineers & Supervisors) including Safety Officer(s) who will be deployed for this Project in the following prescribed format.*

Sl No.	Designation of the Personnel with Discipline	No of Personnel to be deployed	Month wise Duration of Deployment for this project	No of Years of Relevant Experience

**Enclosure-10 (B)**

To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**DECLARATION CERTIFICATE FOR LOCAL CONTENT**

This declaration serves as a declaration form for the bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt. Directives applicable in respect of Local Content & prescribed tender conditions). **THE BIDDER SHALL PROVIDE THIS CERTIFICATE FROM STATUTORY AUDITOR OR COST AUDITOR OF THE COMPANY (IN CASE OF COMPANIES) OR FROM A PRACTICING COST ACCOUNTANT OR PRACTICING CHARTED ACCOUNTANT (IN RESPECT OF SUPPLIER OTHER THAN COMPANIES) GIVING THE PERCENTAGE OF LOCAL CONTENT.**

**IN RESPECT OF BID/ TENDER No. 1900000184**  
**ISSUED BY: MAZAGON DOCK SHIPBUILDERS LIMITED**

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) Order2017.

“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 value addition (Location shall be specified as name of city or district etc.)

Attach separate sheet duly signed if space is not sufficient

**NB: Local content percentage shall be declared item wise or tender wise strictly as per the terms of the tender.**



(e) 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.

(f) 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 of the Bidder:**\_\_\_\_\_

**DATE:**\_\_\_\_\_

**Seal / Stamp of Bidder**

**SIGNATURE:(TO BE SIGNED BY AUTHORISED SIGNATORY STRICTLY AS PER TEF CLAUSE NO. 44.4.i) & STAMPED-VIZ; STATUTORY AUDITOR OR COST AUDITOR OF THE COMPANY (IN CASE OF COMPANIES) OR FROM A PRACTICING COST ACCOUNTANT OR PRACTICING CHARTED ACCOUNTANT (IN RESPECT OF SUPPLIER OTHER THAN COMPANIES)**

**Enclosure-10 (D)**

**To,**



**OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

**ACTUAL LOCAL CONTENT CERTIFICATE**

Note 1: This certificate shall be submitted by the successful bidder post execution of the contract.

**LOCAL CONTENT DECLARATION (post execution of contract / PO). THE SUPPLIER SHALL PROVIDE THIS CERTIFICATE FROM STATUTORY AUDITOR OR COST AUDITOR OF THE COMPANY (IN CASE OF COMPANIES) OR FROM A PRACTICING COST ACCOUNTANT OR PRACTICING CHARTED ACCOUNTANT (IN RESPECT OF SUPPLIER OTHER THAN COMPANIES) GIVING THE PERCENTAGE OF LOCAL CONTENT.**

**IN RESPECT OF CONTRACT No./ PO No. 1900000184.  
ISSUED BY: MAZAGON DOCK SHIPBUILDERS LIMITED**

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

- (a) The facts contained herein are within my own personal knowledge.
- (b) My/our company has declared the local content at the time of tender as under

Tender Item No.	Sr.	Local content calculated as above %	Location of local value addition

(c) My/our company has completed the above referred contract and the actual local content of the delivered item/s calculated using the definition in the declaration given at the time of bid is as under:

Tender Item SrNo	Declared minimum Local content at the time of bidding (%)	Achieved Local content of delivered items (%)

NB: Local content percentage shall strictly be declared item wise or tender wise as was declared at the time of bid / tender.

(d) 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. I undertake to retain the relevant documents for 7 years from date of execution.

(e) 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 of the Bidder:**\_\_\_\_\_

**DATE:**\_\_\_\_\_

**Seal / Stamp of Bidder**

**SIGNATURE:(TO BE SIGNED BY AUTHORISED SIGNATORY STRICTLY AS PER TEF CLAUSE NO. 44.5 i) & STAMPED-VIZ; STATUTORY AUDITOR OR COST AUDITOR OF THE COMPANY (IN CASE OF COMPANIES) OR FROM A PRACTICING COST ACCOUNTANT OR PRACTICING CHARTED ACCOUNTANT (IN RESPECT OF SUPPLIER OTHER THAN COMPANIES)**

**Enclosure-10 (E)**

To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**Declaration in respect of restriction under Rule 144 (xi) of the General Financial Rules  
(GFRs), 2017**

*I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authorities and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authorities. I hereby certify that this bidder fulfils all requirements in this regards and is eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authorities shall be attached]*

**SIGNATURE:**\_\_\_\_\_

**DATE:**\_\_\_\_\_

**Seal / Stamp of Bidder**



**Enclosure-10 (F)**

To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**Declaration in respect of debarred under Public Procurement Policy (PPP) Make In India (MII) order 2017, GeM, CPPP including Tender holiday issued by MDL.**

*I have read the **Clause No. 41** of the Tender and hereby declare that I/ we have not been debarred by any Government or quasi Government agencies or PSU's under Public Procurement Policy (PPP) Make In India (MII) order 2017, GeM and CPPP.*

*Further, I hereby declare that I/ we have not been given the Tender holiday by MDL.*

**SIGNATURE:**\_\_\_\_\_

**DATE:**\_\_\_\_\_

**Seal / Stamp of Bidder**

**Enclosure-11**

To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

**PARTICULARS OF BANNED OR DE-LISTED TENDERER/FIRM/VENDORS**

The General Manager,  
OTS Department,  
6<sup>th</sup> Floor, Service Block Bldg. NY,  
Mazagon Dock Shipbuilders Limited,  
Dock Yard Road,  
Mumbai - 400010, INDIA

Sir,

**Sub: Biennial Rate Contract (2025-2027) for Major Civil Works in Various buildings / Workshops in MDL Yards at Dockyard Road, Anik Chembur, Nhava, Gavhan, South Yard Annexe, Residential quarters at Dockyard Road, Vashi and Belapur**

**Ref: MDL Tender No. 1900000231.**

With reference to **Clause no: 39** (Banned or De-Listed Tenderer/ Firms / Vendors), referred Tender Enquiry, we declare the Information as below.

A. In case of Banned / Blacklisted by the client.

<b>Sl</b>	<b>Name of Government/ quasi Government agencies/or PSUs who has Banned/Black listed</b>	<b>Name of Project value which firm is Banned/ Blacklisted</b>	<b>Banned/ Black listed for the Duration</b>	<b>Reasons</b>

B. In case of penal Action Proceeding / Show cause notices initiated/issued by the Government or quasi Government agencies or PSU's including Pending in Judicial proceedings:

<b>Sl</b>	<b>Name of Client</b>	<b>Name of Project / Work</b>	<b>Status</b>

C. The bidding firm to enclose / submit all relevant documents pertaining to Sr. no. A & Sr no. B above.

Signature of Contractor:

Name and Address:

Place:

Date:

Official Seal

**Enclosure-12**

To,



**OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

MAZAGON DOCK SHIPBUILDERS LIMITED  
DOCKYARD ROAD  
MUMBAI - 400010

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

NAME OF BANK A/C HOLDER	:	MAZAGON DOCK SHIPBUILDERS LTD
BANK AND BRANCH	:	STATE BANK OF INDIA, MAZAGON BRANCH, MUMBAI
BRANCH CODE	:	9054
BANK ACCOUNT NO	:	10005255246
IFSC CODE		SBIN0009054
MICR/NECS CODE		400002120
INCOME TAX PAN NO		AAACM8029J
INCOME TAX TAN NO		MUMM02076E

**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	UTR No.	MDL tender/PO. Ref No.	Nature of Remittance viz. Performance Bank Guarantee etc.	Amount Remitted (₹)
			<b>MDL Tender No. 1900000231</b>		

**Signature of Bidder**

3. SAP Parked document No: \_\_\_\_\_ Date: \_\_\_\_\_  
*(To be filled in by MDL's Commercial Executive)*



To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**INTEGRITY PACT**

**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 for .....The Principal/Buyer values full compliance with all relevant laws of the and, 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 shall appoint an Independent External Monitor (IEM), who shall 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, shall 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 shall during the tender process treat all Bidder(s) with equity and reason. The Principal/Buyer shall in particular, before and during the tender process, provide to all Bidder(s) the same information and shall 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 shall exclude from the process all known prejudiced persons.
  - d) The Principal/Buyer undertakes to scrupulously follow the Purchase Manual containing General Conditions of Contract (GCC) 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 it there be a substantive suspicion in this regard, the Principal/Buyer shall 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) shall 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) shall 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) shall not commit any offence under the relevant Anti-Corruption Laws of India; further the Bidder(s)/Contractor(s) shall not use improperly, for purposes of competition or personal gain, or pass on to other, any information or 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) shall 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 Purchase Manual containing the General Conditions of Contract (GCC) in respect of procurement contracts for goods, services and civil works.
- (2) The Bidder(s)/Contractor(s) shall not instigate third persons to commit offences outlines above or be an accessory to such offences.
- (3) A person signing IP shall not approach the courts while representing the matters to IEMs and he/she will await their decision in matter.

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

If the Bidder(s)/Contractor(s) before contract award 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 shall be determined by the severity of the transgression. The severity shall 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 shall be imposed for a minimum of six months and maximum of five 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.

#### **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 our 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 therefor.
  - 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
  - e) 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.
  - f) To encash 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.
  - g) To cancel all or any other contracts with the Bidder.



- h) 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.
- i) 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.
- j) 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.

- k) 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.
  - l) 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 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 section 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 condition as this one with all bidders, contractors. In case of joint venture, all the partners of the joint venture should sign the Integrity Pct. In case of sub-contractor, the principal contractor shall be solely responsible for the adherence to provisions of IP by the sub-contractor (s).
- (3) The Principal/Buyer shall 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 shall 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 shall also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The
- (4) 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.
- (5) The Principal/Buyer shall 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.
- (6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he shall 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.
- (7) The Monitor shall submit a written report to the Chairman & Managing Director of the 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.
- (8) Monitor shall be entitle to compensation on the same terms as being extended to / provided to Independent Directors on the Board of Principal/Buyer.
- (9) 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/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.

- (10) The word 'Monitor' would include both singular and plural.

#### **Section 9 - Pact Duration:**

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.

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.

#### **Section 10 - Other provisions:**

- (1) This agreement is subject to Indian Law, place of performance and jurisdiction is the
- (2) Registered Office of the Principal/Buyer, i.e. Mumbai. The Arbitration clauses provided in the main tender document/ contract shall not be applicable for any issue/dispute arising under this Integrity pact.
- (3) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (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 shall 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  
(Office Seal)  
Place \_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
For & on behalf of Bidder/Contractor  
(Office Seal)

Witness 1:

(Name & Address)

Witness 1:

(Name & Address)

**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 shall 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:

2.2.1 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.

2.2.2 The amount of commission/remuneration included in the quoted price(s) for such agents/representatives in India.

2.2.3 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:

2.2.1 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 shall 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 shall 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.

**Annexure-B****GUIDELINES ON BANNING OF BUSINESS DEALINGS****CONTENTS**

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## 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:

- a) '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'.
- b) '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;
- c) '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.
- d) '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.
- e) '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 month's 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 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-despatch 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 shall 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 Deptt. and OIC (SR&R) for processing the cases of “Banning of Business Dealings”. The functions of the committee shall, inter-alia include:
- a) 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.
  - b) To recommend for issue of show-cause notice to the Agency by the concerned department.
  - c) To examine the reply to show-cause notice and call the Agency for personal hearing, if required.
  - d) 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.

## **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. Procedure for issuing 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 mis-behaviour 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 inter-connected Agencies.
-



**Enclosure- 14**

**To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

**RTGS/NEFT/ECS – MANDATE AUTHORISATION FORM**

1.	NAME OF THE FIRM	:	
2.	CONTACT PERSON AND DESIGNATION	:	
3.	PAN NO	:	
4.	VENDOR ADDRESS	:	
5.	VENDOR'S TELEPHONE/FAX	:	
6.	E-MAIL ADDRESS	:	
7.	BANK NAME	:	
8.	BANK ADDRESS	:	
9.	ACCOUNT NUMBER	:	
10.	ACCOUNT TYPE	:	
11.	IFSC CODE	:	
12.	MICR CODE	:	
13.	GST ID NO.	:	

We hereby declare that the particulars given above are correct and complete. If the transaction is delayed for reasons of incomplete or incorrect information, we would not hold MDL responsible.

**Date**

**Vendor's Seal**

**Authorised Signature of the Vendor**

**Certified that the particulars as per Serial No. 1 & 6 to 12 are correct as per our records.**

**Date**

**Bank's Stamp**

**Authorised Signature of the Bank Officer**

**Enclosure-15**



To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**PROFORMA BANK GUARANTEE FOR BID BOND / EMD**

(On Non-Judicial stamp paper of value ₹500/-)

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 Company" 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 agreed to accept the Earnest Money Deposit (EMD) of Rs----- (Rupees-----only) in the form of Bank Guarantee from Messers ..... a partnership firm/sole proprietor business/a company registered under the Companies Act, 1956 having its office at .....(hereinafter called " the tenderer" 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) for participating in the Tender no.....dated..... (hereinafter called "the tender" which expression shall include any amendments/alterations to "the tender" issued by "the Company") for the supply, delivery at site, installation and commissioning of certain equipment, item/services/civil works etc., 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 Company without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) against any loss or damage, costs, charges and expenses caused to or suffered by the Company by reason of nonperformance and non-fulfilment or for any breach on the part of the tenderer of any of the terms and conditions of the said tender.

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

3. We, ..... Bank further agree that the amount demanded by the Company 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 Company the amount so demanded on first demand and without any demur notwithstanding any dispute raised by the tenderer 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 Company that the Company 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 tender/or to extend time of performance by the tenderer from time to time or to postpone for any time to time any of the powers exercisable by the Company against the tenderer and to forbear to enforce any of the terms and conditions relating to the tender and we shall not be relieved from our liability by reason of any such variation or extension being granted to the tenderer or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the tenderer 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 Company 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 tenderer or dissolution or winding up of the business of the tenderer.

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
- 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 + --- weeks 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  
or the person authorised to sign)

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



To,  
**OTS-TS SECTION**  
**OTS DEPARTMENT**  
**MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

**PROFORMA FOR PERFORMANCE BANK GUARANTEE**

(On Non-Judicial stamp paper of value ₹100/-)

IN CONSIDERATION OF MAZAGON DOCK SHIPBUILDERS LIMITED (formerly known as MAZAGON DOCK 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 Company" 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" 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 Company") for the work of \_\_\_\_\_ as stated in the said Order and the Company having agreed that the Contractor shall furnish a security for the performance of the Contractor obligations and/or discharge of the Contractor liability in connection with the said order and the Company having agreed with the Contractor to accept a performance guarantee, 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 Company without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) against any loss or damage, costs, charges and expenses caused to or suffered by the Company by reason of non-performance and non-fulfillment or for any breach on the part of the Contractor of any of the terms and conditions of the said order.

2. We, ..... Bank further agree that the Company shall be sole judge whether the said Contractor has failed to perform or fulfill 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 Company on account thereof and we waive in the favour of the Company all the rights and defences to which we as guarantors may be entitled to.

3. We, ..... Bank further agree that the amount demanded by the Company 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 Company the amount so demanded on first demand and without any demur notwithstanding any dispute raised by the Contractor 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 Company that the Company 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 Contractor from time to time or to postpone for any time to time any of the powers exercisable by the Company against the Contractor 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 or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the Contractor 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 Company 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.
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
  - 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 + ---weeks 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 authorised  
to sign on behalf of "the Bank")

**PROFORMA FOR WATERPROOFING BANK GUARANTEE**

(On Non-Judicial stamp paper)

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 Company" which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors, liquidators 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 Contractors" 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 work of ..... as stated in the said Order and the Company having agreed that the Contractors shall furnish a security for the performance of the Contractors obligations and/or discharge of the Contractors liability in connection with the waterproofing work(s) executed under the said order and the Company having agreed with the Contractors to accept a waterproofing bank guarantee, We, ..... Bank having office at ..... (Hereinafter referred to as "the Bank" which expression shall includes its successors and assigns) hereby agree to pay to the Company without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) 10% of the total value of waterproofing work(s) in the order against any loss or damage, costs, charges and expenses caused to or suffered by the Company by reason of any defects in waterproofing work done by the Contractor, as per the terms and conditions of the said order.

1. We, (Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for satisfactory performance and fulfilment in all respects of the said contract, which consists of 05 years after satisfactory completion of the waterproofing work as per terms and conditions of the said order.
2. We, ..... Bank further agree that the Company shall be sole judge whether the said Contractors 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 Company on account thereof and we waive in the favour of the Company all the rights and defences to which we as guarantors may be entitled to.
3. We, ..... Bank further agree that the amount demanded by the Company 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 Company the amount so demanded on first demand and without any demur notwithstanding any dispute raised by the Contractors 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 Company that the Company 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 Contractors from time to time or to postpone for any time to time any of the powers exercisable by the Company against the Contractors 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 Contractors or for any



forbearance, act or omission on the part of the Company or any indulgence by the Company to the Contractors 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 Company 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 Contractors.
7. Notwithstanding anything contained herein above:
  - i) Our liability under this guarantee shall not exceed Rs.....
  - ii) This Bank Guarantee shall be valid up to and including .....; and
  - 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 + ---weeks 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 authorised  
to sign on behalf of "the Bank")



**PROFORMA FOR BANK GUARANTEE AGAINST WATER LEAKAGE**

(On Non-Judicial stamp paper)

IN CONSIDERATION OF MAZAGON DOCK 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 Company" which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors, liquidators 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 Contractors" 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 work of ..... as stated in the said Order and the Company having agreed that the Contractors shall furnish a security for the performance of the Contractors obligations and/or discharge of the Contractors liability in connection with the **roof sheeting/ cladding work(s)** executed under the said order and the Company having agreed with the Contractors to accept a bank guarantee against water leakage, We, ..... Bank having office at ..... (Hereinafter referred to as "the Bank" which expression shall includes its successors and assigns) hereby agree to pay to the Company without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) 10% of the total value of **roof sheeting/ cladding work(s)** in the order against any loss or damage, costs, charges and expenses caused to or suffered by the Company by reason of any defects in **roof sheeting/cladding work(s) leading to water leakage** by the Contractor, as per the terms and conditions of the said order.

1. We, (Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for satisfactory performance and fulfilment in all respects of the said contract, which consists of 05 years after satisfactory completion of the **roof sheeting/ cladding work** as per terms and conditions of the said order.
2. We, ..... Bank further agree that the Company shall be sole judge whether the said Contractors 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 Company on account thereof and we waive in the favour of the Company all the rights and defences to which we as guarantors may be entitled to.
3. We, ..... Bank further agree that the amount demanded by the Company 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 Company the amount so demanded on first demand and without any demur notwithstanding any dispute raised by the Contractors 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 Company that the Company 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 Contractors from time to time or to postpone for any time to time any of the powers exercisable by the Company against the Contractors 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 Contractors or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the Contractors 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 Company 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 Contractors.
7. Notwithstanding anything contained herein above:
  - i) Our liability under this guarantee shall not exceed Rs.....
  - ii) This Bank Guarantee shall be valid up to and including .....; and
  - 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 + ---weeks 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 authorised  
to sign on behalf of "the Bank")

**Enclosure-19**

<b>Sl no.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate (Rs)</b>	<b>Total Amount (Rs)</b>
<b>1</b>	<b>EXCAVATION &amp; DISPOSAL</b>				
1.01	<b>Earth work in excavation</b> by Mechanical means (Hydraulic excavator) / Manual means for all lift including stacking excavated earth, lead upto 50 m at designated place within MDL premises before disposal as per direction of Engineer - in- charge etc. complete. - <b>All kinds of soil</b>	Cum.	1.00	178.27	
1.02	<b>Excavation in ordinary rock</b> , by Mechanical means (Hydraulic excavator) / Manual means up to 1.5m depth including stacking excavated material , lead upto 50 m at designated place within MDL premises before disposal as per direction of Engineer - in- charge etc. complete. - <b>Ordinary rock</b>	Cum.	1.00	501.08	
1.03	<b>Excavation in Hard rock (blasting prohibited)</b> by Mechanical means (Hydraulic excavator) / Manual means up to 1.5m depth including stacking excavated material , lead upto 50 m at designated place within MDL premises before disposal as per direction of Engineer - in- charge etc. complete. - <b>Hard rock (blasting prohibited)</b>	Cum.	1.00	1439.20	
1.04	<b>Filling available excavated earth</b> ( excluding rock ) in trenches, Plinth, sides of foundations,for levelling etc. in layers not exceeding 20cm in depth, consolidating each layer by ramming and watering, etc complete for all lift, including loading/unloading materials by mechanical transport <b>within 2km of MDL premises.</b>	Cum	1.00	443.75	
1.05	<b>Filling available excavated rock</b> in trenches, Plinth, sides of foundations,for levelling etc. in layers not exceeding 20cm in depth, consolidating each layer by ramming and watering, etc complete for all lift, including loading/unloading materials by mechanical transport within 1km of MDL premises.	Cum	1.00	546.45	
1.06	<b>Excavating, supplying, stacking and filling of local earth</b> (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift. The earth shall approved by EIC.	Cum	1.00	703.56	
1.07	<b>Carriage of building rubbish</b> by mechanical transport including loading, unloading and stacking from MDL premises to municipal dumping ground etc complete.	Cum	1.00	628.93	
1.08	<b>Carriage of earth</b> by mechanical transport including loading, unloading and stacking from MDL premises to municipal dumping ground etc complete.	Cum	1.00	786.09	



1.09	<b>Carriage of excavated Rock</b> by mechanical transport including loading, unloading and stacking from MDL premises to municipal dumping ground etc complete.	Cum	1.00	1257.86	
	<b>Excavating trenches of required width for pipes, cables,</b> etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. Also includes disposal of excavated or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as directed by Engineer-in-charge, for all leads including all lifts involved. etc. complete. -- <b>All kinds of soil</b>				
1.10	Pipes, cables etc, not exceeding 80 mm dia.	metre	1.00	512.14	
1.11	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	metre	1.00	837.96	
1.12	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	metre	1.00	1306.87	
1.13	<b>Providing and removing open or closed shoring and strutting</b> in the trenches/ pits for all depths as per specifications/ drawings and or as directed by Engineer-in-charge by including walling, struts, open poling boards, horizontal sheeting, runners, dog spikes by using timber etc. complete.	Sqm	1.00	155.98	
1.14	<b>Dewatering on BHP basis by using water pump</b> including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using <b>3.0 BHP pump</b> etc. complete.	Hour	1.00	214.14	
1.15	<b>Dewatering</b> using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using <b>5.0 to 9.0 BHP pump</b> etc. complete.	Hour	1.00	240.46	
<b>2</b>	<b>CONCRETE WORK</b>				
2.1	<b>Dismantling RCC Work</b> Manually / by Mechanical means including cutting bars and stacking of steel bars within MDL premises and disposal of un-serviceable material outside MDL premises to municipal dumping ground complete as directed <b>at any height / Location etc.</b>	Cum.	1.00	4195.68	
2.2	<b>Dismantling carefully PCC Work</b> Manually / by Mechanical means & carting away debris outside MDL premises to municipal dumping ground complete as directed <b>at any height / Location etc.</b>	Cum.	1.00	3073.80	



2.3	<b>Dismantling carefully existing RCC Jali</b> of any thickness, lowering down & carting away debris etc. outside MDL premises to municipal dumping ground complete as directed at any height / Location etc.	Sqm	1.00	482.61	
2.4	<b>Dismantling of Rectangular chamber or Circular Manhole upto 2.45 m deep</b> including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumping ground etc complete	Each	1.00	7103.92	
2.5	<b>Raising manhole/sewer/ chamber</b> with cover and frame RCC slab to required level including dismantling existing slab and making good the damage as required and directed. Also, includes stacking of useful materials near the site and disposal of unserviceable materials into municipal dumping ground etc complete (Raising depth of manhole to be paid separately)	Each	1.00	2867.71	
2.6	Providing & laying <b>Plain Cement concrete</b> (PCC-Cast in situ) including curing but excluding the cost of centering & shuttering etc;complete as directed.-- <b>UPTO PLINTH LEVEL---(1:3:6) Concrete (1 Cement: 3 coarse aggregate: 6 graded stone aggregate 20mm nominal size)</b>	Cum.	1.00	7210.07	
2.7	Providing & laying <b>Plain Cement concrete</b> (PCC-Cast in situ) including curing but excluding the cost of centering & shuttering etc;complete as directed.-- <b>UPTO PLINTH LEVEL---(1:2:4) Concrete (1 Cement: 2 coarse aggregate: 4 graded stone aggregate 20mm nominal size)</b>	Cum.	1.00	7912.87	
2.8	Providing & laying <b>Plain Cement concrete</b> (PCC-Cast in situ) including curing but excluding the cost of centering & shuttering etc;complete as directed.-- <b>UPTO PLINTH LEVEL---(1:1.5:3) Concrete (1 Cement:: 1.5 coarse aggregate: 3 graded stone aggregate 20mm nominal size)</b>	Cum.	1.00	8377.24	
2.9	Providing & Laying Plain Cement concrete (PCC-Cast in Situ)at any location, curing excluding centering, shuttering etc;complete as directed. --- <b>UPTO FLOOR FIVE LEVEL--- (1:2:4) Concrete (1 Cement: 2 coarse aggregate: 4 graded stone aggregate 20mm nominal size)</b>	Cum.	1.00	9938.37	
2.10	Providing & Laying <b>Plain Cement concrete</b> (PCC-Cast in Situ)at any location, curing excluding centering, shuttering etc;complete as directed. --- <b>UPTO FLOOR FIVE LEVEL---(1:1.5:3) Concrete (1 Cement:1.5 coarse aggregate: 3 graded stone aggregate 20mm nominal size)</b>	Cum.	1.00	10402.74	
2.11	<b>Extra for concrete work</b> in superstructure above floor V level for each 4 floors or part thereof	Cum.	1.00	170.19	
2.12	Providing & Laying <b>Reinforced cement concrete</b> in position excluding centering, shuttering, & reinforcement bars, including	Cum.	1.00	8620.85	



	curing etc;complete as directed. --- <b>UPTO PLINTH LEVEL---(1:2:4) Concrete (1 Cement: 2 coarse aggregate: 4 graded stone aggregate 20mm nominal size)</b>				
2.13	Providing & Laying <b>Reinforced cement concrete</b> in position excluding centering, shuttering, & reinforcement bars, including curing etc;complete as directed. --- <b>UPTO PLINTH LEVEL---(1:1.5:3) Concrete (1 Cement:1.5 coarse aggregate: 3 graded stone aggregate 20mm nominal size)</b>	Cum.	1.00	9085.21	
2.14	Providing & Laying <b>Reinforced cement concrete</b> in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases excluding centering, shuttering, & reinforcement bars, including curing etc;complete as directed. --- <b>ABOVE PLINTH IEVEL UPTO FLOOR FIVE LEVEL---(1:1.5:3) Concrete (1 Cement:1.5 coarse aggregate: 3 graded stone aggregate 20mm nominal size)</b>	Cum.	1.00	11555.70	
2.15	Extra over & above Item for RCC/BMC/RMC work in superstructure above floor V level for each 4 floors or part thereof	Cum.	1.00	357.20	
	Providing & fixing in position <b>Centering &amp; shuttering</b> including strutting, propping etc. and removal of form work of approved type as directed by Engineer in charge. <b>For all height</b>				
2.16	Foundations, footings, bases of columns, Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks	Sqm	1.00	393.86	
2.17	Walls including attached pilasters, buttresses, plinth and string courses fillets etc.	Sqm	1.00	846.18	
2.18	Suspended floors, roofs, landings, balconies, access platform and shelves (cast in situ)	Sqm	1.00	931.30	
2.19	Lintels, beams,plinth beams, girders, bressumers and cantilevers	Sqm	1.00	739.61	
2.20	Columns, pillars, piers, Abutments, posts & struts	Sqm	1.00	965.49	
2.21	Stairs, (excluding landings)	Sqm	1.00	768.29	
2.22	Vertical & horizontal fins or forming box louvers band, facias & eaves boards	Sqm	1.00	1302.36	
2.23	Weather shed, chajjas, corbels etc. including edges	Sqm	1.00	955.25	
2.24	<b>Extra over &amp; above Item for additional height</b> in centering, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering & de-centring at all levels, over a height of 3.5m, for additional height of 1 m of part thereof for Suspended floors, roofs, landings, beams & balconies (Plan area to be measured)	Sqm	1.00	385.98	
2.25	Encasing rolled steel sections, in beams and columns, with cement concrete 1:1.5:3 (1	Cum.	1.00	16159.59	





	cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) including centering and shuttering complete but , excluding cost of reinforcement				
	<b>Providing and fixing precast cement concrete jali</b> in ratio 1:2:4 reinforced with 1.6mm dia mild steel wire including centering & shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 etc. complete excluding plastering of the jambs, sills & soffits at any location complete as directed. shall be invariably used.				
2.26	50 mm thick	Sqm	1.00	1895.13	
2.27	40 mm thick	Sqm	1.00	1714.00	
	<b>DESIGN MIX CONCRETE:</b>				
	Providing and laying in position <b>ready mixed or site batched design mix cement concrete</b> for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.				
	<b>All works upto plinth level</b>				
2.28	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum.	1.00	9546.22	
2.29	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum.	1.00	9697.83	
2.30	Concrete of M35 grade with minimum cement content of 370 kg /cum	Cum.	1.00	9849.48	
2.31	Concrete of M40 grade with minimum cement content of 390 kg/cum	Cum.	1.00	10001.09	
	Providing and laying in position <b>ready mixed or site batched design mix cement concrete</b> for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.				
	<b>All works above plinth level upto floor V level</b>				





2.32	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum.	1.00	9903.42	
2.33	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum.	1.00	10055.03	
2.34	Concrete of M35 grade with minimum cement content of 370 kg /cum	Cum.	1.00	10206.69	
2.35	Concrete of M40 grade with minimum cement content of 390 kg/cum	Cum.	1.00	10358.29	
2.36	Add for using extra cement in the items of Design Mix over and above the specified cement content therein	Quintal	1.00	736.70	
2.37	<b>Providing and placing in position precast reinforced cement concrete waffle units</b> square or rectangular as per design and shape for floors and roofs in 1:1 1/2:3 (1 Cement : 1.1/2 coarse sand : 3 graded stone aggregate 10mm nominal size) including flush or deep ruled pointing at joints in cement mortar 1:2 (1 Cement : 2 Fine sand), making necessary holes of required sizes for carrying through service lines, etc., providing steel hooks for lifting etc. form work in pre casting, handling, hoisting, centering and erection complete for all floor levels but excluding the cost of reinforcement.	Cum.	1.00	33162.80	
	<b>Providing &amp; fixing in position reinforcement bars</b> including straightening, cutting, bending, placing in position & binding with binding wires / welding where ever necessary <b>for slabs / beams / columns /Staircase/linlets/chajja/ footing/pile etc.</b> all complete as directed at any location ( Lapping / chairs will be measured & paid )				
2.38	Mild steel & medium tensile steel bars	Kgs.	1.00	107.57	
2.39	Thermo-Mechanically Treated bars of grade Fe 500 D or more	Kgs.	1.00	108.32	
2.40	Cold Twisted bars	Kgs.	1.00	108.32	
2.41	<b>Providing and Application of IRONITE NO.3 / Nitoflor Hardtop</b> , Non-metallic, monolithic surface hardening compound containing rust free, hardwearing aggregates to all concrete floors which cures monolithically to provide a dense, non-porous surface which is extremely hardwearing and abrasion resistant. Nitoflor Hardtop Standard shall be evenly spread at correct time while concrete is having adequate moisture to absorb floor hardener at application rate of 7 kg/Sqm etc., complete as directed by engineer in charge.	Sqm	1.00	562.02	
2.42	<b>Providing and laying in situ cement concrete M -30 with tremix treatment</b> for Concrete floor surface including laying plastic sheet for 125 micron thickness with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen ( excluding reinforcement) with coarse and fine aggregate ( natural sand/ VSI grade finely washed crushed sand) etc. complete with fully automatic micro	Cum	1.00	7155.16	



	processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.				
2.43	<b>Providing &amp; Laying Plum concrete</b> consisting of 80% P.C.C. mix (1:3:6) and 20% Rubble stone of maximum size of 150 mm laid in layers with ramming consolidating, watering including dewatering cost, seigniorage & conveyance of all materials, labour charges, machine mixing, finishing the surface etc. including mechanically vibrating & compacting. complete.	Cum	1.00	7415.06	
2.44	<b>Providing &amp; Laying Plum concrete</b> consisting of 70% P.C.C. mix (1:3:6) and 30% Rubble stone of maximum size of 160 mm and above laid in layers with ramming consolidating, watering including dewatering cost, seigniorage & conveyance of all materials, labour charges, machine mixing, finishing the surface etc. e including mechanically vibrating and compacting, complete.	Cum	1.00	6650.05	
	Providing & fixing parallel <b>threaded couplers</b> conforming to IS 16172 code on “Reinforcement couplers for mechanical splices of bars for concrete reinforcement Specifications”, to reinforcement bars including threading enlargement at connection by forcing, protecting the prepare reinforcement bars at related operations as required to complete the works as per the directions of engineer incharge.				
2.45	25mm	Nos	1.00	214.20	
2.46	32mm	Nos	1.00	295.07	
2.47	<b>Protective coating screed 50mm of M-60 grade concrete:-</b> Providing & laying 50mm thick Hi-strength self compacted concrete of M-60 grade with Polymer enriched with Polypropylene fibres. The concrete screed shall be cured for minimum 07 days. (The material should be of preferred makes like BASF, Mapei, Fosroc, Sunanda, sika, Asian paints, Master Builders or equivalent make with similar properties).	Sqm	1.00	964.42	
2.48	<b>Extra Over item of stencil concrete</b> above concrete in footpath. Providing, applying and finishing the top surface of concrete with stamp/ stencil of approved pattern and colour, in accordance with manufacturer's specification of any approved brand of colour hardener @ 3.5 kgs/m <sup>2</sup> ; including floating of colour hardened over concrete surface with	Sqm	1.00	289.61	



	different types of floaters; including application of release agent @ 0.15 kgs/m <sup>2</sup> , stamping over the concrete surface with stamping tools; including cleaning of surface with water and cutting of finished concrete; including application of two coats of acrylic based sealer for finishing. Colour hardener and release agent shall be tested for abrasion resistance for a depth of wear, should not be more than 0.025 mm. Coverage of sealer should not be more than 6.5 sq.m per one litre coat; including cost of skilled manpower, cutting machine, sprayer and all tools tackles for all activities; complete smooth & finish as per direction of Engineer-In-Charge.				
<b>3</b>	<b>BRICK / STONE MASONRY WORK</b>				
3.1	<b>Demolishing carefully brick work/ precast concrete block/Siporex block</b> by Manual / Mechanical means of any thickness including tile work, plaster etc as directed & disposal of debris / outside MDL premises to municipal dumping ground etc. complete as directed.	Cum	1.00	2698.12	
3.2	<b>Demolishing carefully stone rubble masonry</b> by Manual / Mechanical means as directed & disposal of debris / un-serviceable material outside MDL premises to municipal dumping ground etc. complete as directed at any height / Location	Cum	1.00	3098.61	
	Providing second class Half Brick masonry with conventional / IS type bricks including scaffolding, waterring, racking out joints etc. complete				
	<b>SET IN CEMENT MORTAR ( 1 : 4 )</b>				
3.3	In Foundation & Plinth	Sqm	1.00	909.00	
3.4	In superstructure upto floor V level	Sqm	1.00	1128.70	
3.5	Extra Over for superstructure above floor V level for each 4 floors or part thereof by Mechanical means	Sqm	1.00	15.07	
3.6	Extra for providing and placing in position 2 no.s 6 mm dia. MS bars at every third course of half brick masonry	Sqm	1.00	105.26	
	Providing second class Brick masonry with conventional / IS type bricks including scaffolding, waterring, racking out joints etc. complete				
	<b>SET IN CEMENT MORTAR ( 1 : 4 )</b>				
3.7	In Foundation & Plinth	Cum	1.00	6533.28	
3.8	In superstructure upto floor V level	Cum	1.00	9385.12	
3.9	Extra for second class brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.	Cum	1.00	170.19	
	<b>Providing &amp; laying Random Rubble masonry</b> with hard stone including leveling up with cement concrete 1:6:12 with cement mortar				



	1:6 (1cement : 6 coarse sand) including Pointing, curing etc; all complete.				
3.10	In foundation & plinth.	Cum	1.00	7343.15	
3.11	Above plinth level Upto floor five level	Cum	1.00	9315.92	
3.12	Providing and laying <b>Autoclaved Aerated concrete (AAC) blocks masonry</b> with 150 mm to 300 mm thick Grade-I AAC blocks of density 551 to 650 Kg/cum in super structure above plinth level upto floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer in charge. (The payment of RCC band and reinforcement shall be made for separately).	Cum	1.00	8370.01	
3.13	<b>Constructing second class brick masonry road gully chamber 50x45x60</b> cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre cast R.C.C. horizontal grating with frame complete as per standard design With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00	5983.89	
3.14	<b>Constructing second class brick masonry chamber for underground C.I. inspection chamber</b> and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00	8186.06	
3.15	<b>Extra for depth beyond 45 cm of brick masonry chamber</b> : For 500x700 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	meter	1.00	6709.75	
3.16	<b>Making the opening in brick masonry</b> including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface and disposal of malba/ rubbish to the nearest municipal dumping ground. For door/ window/ clerestory window	Sqm	1.00	1898.80	
3.17	<b>Cutting holes up to 30x30 cm in walls</b> including making good the same With common burnt clay F.P.S. (non modular) bricks	Nos	1.00	418.62	
3.18	<b>Cutting holes up to 15x15 cm in R.C.C. floors and roofs</b> for passing drain pipe etc. and	Nos	1.00	453.97	



	repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.				
3.19	<b>Providing &amp; laying kitchen platform of 600-675 mm deep(clear) and 700mm to 800 mm ht(top)above ffl.</b> in shape and design as directed. With approved 20mm thk granite top of approved shade, including 18MM cement mortar and LOCAL marble base, with LOCAL marble verticals and shelves as indicated, <b>making cut-outs for sink</b> , plumbing fixtures, gas cylinder pipes, etc, cost to include for all granite vertical patties, facias, splash - back patties, granite skirting etc. Polishing including edge polishing, washing, cleaning, and finishing the wall surface below the counter with 200mm x 200mm ceramic white colour tile including necessary cement mortar backing complete details as directed. running length of counters to be measured along their centre lines and paid for. (Basic cost of granite Rs.2020/- Sq.mt.)	Meter	1.00	7808.40	
3.20	Providing & laying <b>wash basin counter of 500-550 mm depth(clear) and at 700mm to 800 mm ht (top) above ffl.</b> Of approved 20mm thk granite slab laid on 20mm thk white marble support with required cement mortar base & 100-150 mm thk chamfered and machine polished edge facia.it shall be supported on side walls & with white marble vertical supports as shown in the drawing. (Basic granite rate=Rs 2622 per sqm)	Meter	1.00	3691.42	
3.21	Providing and laying <b>flamed finish Granite stone</b> flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and edge polishing etc. all complete as specified and as directed by the Engineer-in-Charge Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	1.00	3200.60	
	<b>Stone work in plain ashlar</b> in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :				
3.22	One face dressed Red sand stone	Cum	1.00	68591.95	
3.23	both face dressed Red sand stone	Cum	1.00	91693.30	



3.24	<b>Coursed rubble masonry with hard stone</b> in cement mortar (1:4) in dock walls, with Ashlar facing including scaffolding, curing etc. complete as directed.	Cum	1.00	10788.46	
3.25	<b>Granite Stone tile work for wall lining upto 10 m</b> height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. 8 mm thick (mirror polished and machine cut edge) Granite stone of any colour and shade	Sqm	1.00	3108.05	
3.26	<b>Cleaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc.</b> , including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/ Engineer-in charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica where ever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the building/ structure, all as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).	Sqm	1.00	211.97	
3.27	<b>Wall lining butch work upto 10m height with Dholpur stone</b> 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-in-charge.	Sqm	1.00	3148.68	
3.28	Providing and laying masonry of I.S. Standard C.C. hollow block 100 x 200 x 400 mm with 100mm thick in cement mortar 1:6 proportion for superstructure including curing, scaffolding etc. complete	Sqm	1.00	1472.66	
3.29	Providing and laying masonry of I.S. Standard C.C. hollow block 200 x 200 x 400 with 200mm thick in cement mortar 1:6 proportion for superstructure including curing, scaffolding etc. complete.	Sqm	1.00	1593.49	





3.30	Providing & Laying <b>dry stone Rubble Soling</b> with average 150 mm to 200 mm size hard stone set in regular lines, handpacked and interstices thoroughly filled with small chips including filling in with good quality murum brought from outside, compacting with iron rammers, watering complete as directed by Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)	Cum	1.00	1653.31	
3.31	<b>Providing, laying, spreading and compacting WMM</b> graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub-base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-I (size range 75 mm to 0.075 mm)	Cum	1.00	2371.46	
<b>4</b>	<b>PLASTERING</b>				
4.1	<b>Dismantling carefully damaged portion of cement plaster of any finish</b> from the wall, ceiling, beams etc & raking out the joints to a suitable depth up to 20mm & carting away debris etc outside MDL premises to Municipal Dumping ground. complete as directed at any height / Location	Sqm	1.00	67.47	
4.2	<b>Providing and applying plastering on RCC/brick masonry work with 12 mm thick</b> by using ready-mix Roofit mortar including curing & finishing <b>including plaster of paris putty of 2 mm thickness</b> over plastered surface to prepare the surface even and smooth complete. as directed.	Sqm	1.00	612.41	
4.3	<b>Providing and applying plastering on RCC/brick masonry work with 12 mm thick</b> by using ready-mix Roofit mortar including curing etc; all complete as directed.	Sqm	1.00	348.56	
4.4	<b>Extra for plastering exterior walls of height more than 10m</b> from ground level for every additional height of 3m or part thereof	Sqm	1.00	87.48	
4.5	<b>Providing &amp; applying plaster of paris putty of 2mm thickness over plastered</b> surface to prepare the surface even and smooth with sand paper etc. complete as directed. to plastered surfaces in all positions.	Sqm	1.00	263.85	
4.6	Providing and applying <b>Two coats of wall care putty</b> thickness on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete	Sqm	1.00	82.55	
4.7	Providing and applying <b>plaster of paris putty of upto 10mm thickness</b> over plastered surface to prepare the surface even and smooth complete at any height / Location etc	Sqm	1.00	296.91	





4.8	<b>Providing and applying 20 mm thick external sand faced cement plaster</b> in cement mortar (1:3) with neat cement rendering upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc. complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)	Sqm	1.00	668.83	
4.9	<b>Providing internal cement plaster 25 mm thick</b> in single coat using Ready to use wall plaster in cement mortar 1:4 to concrete, brick, stone surfaces in all positions including scaffolding and curing. Providing groove at joint of B.B. Masonry and concrete members complete. With Prior Approval of EIC	Sqm	1.00	643.62	
4.10	<b>Pebble dash plaster upto 10 m height above ground level</b> with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement including providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	Sqm	1.00	855.77	
4.11	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand ), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in-charge (payment for providing grooves shall be made separately).	Sqm	1.00	1167.32	
	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :				
4.12	15 mm wide & 15 mm deep groove	Metre	1.00	75.48	
4.13	20 mm wide & 15 mm deep groove	Metre	1.00	76.13	



4.14	Providing <b>Ready Mix Plaster eco-friendly pre-polymerised ready to use wet mix plaster up to 12 mm thickness</b> to concrete or brick surface at all position including scaffolding and curing , cement mortar ratio 1:3	Sqm	1.00	311.04	
4.15	Providing and applying <b>One coats of Ruff &amp; Tuff Synthetic plaster</b> groove finish copolymer emulsion based reinforced by quartz aggregate formulated to withstand humidity, rain and hot climate, over roughened external plastered surface etc, all complete as directed.	Sqm	1.00	424.41	
<b>5</b>	<b>RESTORATIVE REPAIR WORK.</b>				
5.1	<b>Covering the scaffolding with Wooven PVC Cloth Bardan (Agro Knitted Fabric) by sewing</b> , knotting as required at any height of the building /structure while carrying out external work of the building/structure etc. as per the direction of Engineer In charge.	Square Meter	1.00	54.49	
5.2	<b>Providing &amp; fixing the Safety Net</b> with 12mm Border rope, 4mm knotted, 1mm fishnet size - 15mm X 15mm mesh to prevent the debris falling on ground /walkway etc. as per the direction of Engineer In charge. <b>Note :</b> The cost includes the work to be carried out upto Ten storey height/40m. No additional payment will be made for floor rise for entire work.	Square Meter	1.00	115.88	
5.3	<b>Repairs to plaster of thickness 12 mm to 20 mm in patches</b> , including cutting the patch in proper shape, raking out the joints and preparing and plastering the surface of the walls, by using ready-mix Roofit mortar at all heights complete including disposal of rubbish to the dumping ground.	Sqm	1.00	423.96	
5.4	<b>Dash Coat:</b> Providing and applying dash coat of Cement mortar (CM) 1:3 on the wall surface of average 20mm thick so as to keep the wall surface in line and level with adjacent RCC members including curing at all heights and locations etc. complete and as directed by Engineer Incharge. In case VSI sand supply is not available, then Ready made Roof fit mortar shall be used instead of In-Situ Mix.	Sqm	1.00	788.15	
5.5	<b>Repairs to External sand faced cement plaster of thickness 12 mm to 20 mm in patches</b> , including cutting the patch in proper shape, raking out the joints by using ready-mix Roofit mortar at all heights, including disposal of rubbish to the dumping ground. and locations as per manufacturers recommendation	Sqm	1.00	447.85	
5.6	<b>Chipping of unsound/weak concrete material</b> from slabs, beams, columns etc. of 75 mm average thickness with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes	Sqm	1.00	517.61	



	etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge (Surface area exposed after final chipping chiselling etc. will only be measured and paid for)				
5.7	Providing and applying <b>POLYMER MODIFIED MORTAR(PMM)</b> in proportion of 1(Polymer) : 5(Cement) : 15 (Quartz sand) by weight with water cement ratio of 0.35 including application of bond coat of Krishna Conchem or equivalent approved make using brush in ratio of 1 (Polymer) :1 (Cement) : 0.35 (water) by weight including cleaning of surface with air mixed with water under pressure, and subsequent layer upto 10mm after hardening curing; all complete. (Polymer manufactured by sunanda, pidilite, fosroc, acro- chem, build core or equivalent)	Kgs.	1.00	54.30	
5.8	<b>Repair to RCC damaged members</b> such as slab, beam, columns by using <b>Ready Mix Polymer Modified Mortar</b> (15 to 30 mm thick). <b>Removing loose rust</b> from the reinforcement bars by wire brushing, light hammering etc. and applying sulphate and chloride free inorganic single component rust remover ( <b>Rusticide</b> - Sunanda or approved make) confirming to IS 9077. The rusted surface shall become blackish non rusted colour. After 24 hours of application of rust remover, loose particles shall be removed by brush. Applying <b>bonding coat</b> of slurry of high performance acrylic polymer POLYALK EP of Sunanda make or equivalent over entire surface of repair.Mix 1 Kg of acrylic polymer with 0.5 Kg of cement. Finish it with ready to use repair polymer modified mortar based on special cements, aldehyde based polymers with thixotropy modifying agents as approved by Engineer in charge (The Polymer Modified Mortar (PMM) should attain min. compressive strength of 20 N/mm <sup>2</sup> in 1 day and 30 N/mm <sup>2</sup> in 7 days) by adding 13 - 16% water by weight of polymer modified mortar for treatment to the damaged RCC members. <b>Add 1 Kg of Migrating Corrosion Inhibiting Admixture</b> as approved by Engineer in charge per 25 Kg bag of polymer modified mortar. After mixing polymer modified mortar, it can be trowel applied or sprayed. When applying by hand, polymer modified mortar must be forced tightly into the substrate to ensure complete contact with the substrate.	Sqm	1.00	2654.63	
5.9	Providing and applying <b>Polymer Modified Crack filler</b> of Dr. Fixit/ Sunanda Conchem /Krishna Conchem or equivalent approved make including surface preparation like chiseling the existing cracks to form a V groove, cleaning the groove to remove all loose materials and washing with water before applying the	Rm	1.00	114.96	



	crack filler at any height/location etc all complete as directed.				
5.10	Providing and applying a priming cum <b>bonding coat</b> of polymer of Krishna Conchem or equivalent approved make and cement slurry in ratio 1:1 by weight to concrete area by brush all complete.	Sqm	1.00	86.88	
5.11	Providing and applying <b>Anticorrosive Treatment to exposed reinforcement portion of slab</b> with one coat of alkaline RUST CONVERTER feovet/Rusticide or equivalent on exposed reinforcement after cleaning the surface with wire brush, followed by Two coats of anticorrosive epoxy phenolic IPNET RB/POLYALK FLXOPRIME or equivalent rebar protection coating on exposed reinforcement and concrete penetrating corrosion inhibitor EPCO KP-100 / POLYALK CP 113 or equivalent over adjoining concrete surfaced.	Sqm	1.00	678.31	
5.12	Providing and applying <b>6mm thick internal ceiling plaster using mortar C:M 1:3</b> as per manufacturers recommendations at all heights and locations for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc. complete.	Sqm	1.00	398.38	
5.13	Providing & laying <b>Micro Concrete/Polycrrete "A"</b> of M/s. Sunanda or equivalent approved make using 12.5%of water by weight of polycrrete mix over a bond coat of approved make in the ratio of 1 polymer : 1cement, curing etc; all complete at any location / Height	Kg	1.00	34.70	
5.14	<b>Providing and grouting</b> with cement and water and grouting shall be done using hand grouting cement machine till refusal as directed, curing the area by water spray etc. complete as directed.	Nos	1.00	161.76	
5.15	<b>Covering the windows with 12 mm thick plywood</b> confirming to IS 4990:2011, and removal of ply after completion of the work , cleaning the concrete/wall surface thoroughly to remove dust, dirt, grime, at all heights/ levels and locations and as directed by Engineer Incharge.	Sqm.	1.00	107.27	
5.16	<b>Providing lining of stone aggregate nominal size 40 mm</b> Cement mortar 1:4 (1 cement : 4 fine sand) at junction of RCC member & brick /stone /concrete blocks wall including surface preparation, jointing tape as per direction of Engineer - in- charge etc. The works includes all leads and lifts involved.	m	1.00	17.47	
5.17	<b>Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers</b> , including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of reinforcement, with	Cum	1.00	13959.84	



	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size				
5.18	<b>Drilling with core cutting machine in RCC slabs, walls etc. upto 100mm dia</b> wherever required in buildings, manholes, ducts, water tanks, pits etc. for laying pipes, sleeves and making good the same to give an even finish . The rate shall include the cost of drilling core, providing EPOXY based water proofing compound for sealing the joints around the pipes, nominal reinforcement wherever required, scaffolding and labour charges for working at all levels ,leads and heights. (Maximum thickness of RCC members shall be 300mm) and as directed by Engineer-In-Charge.	Each	1.00	622.93	
6	<b>WOOD WORK/FURNITURES/GLASS</b>				
6.01	<b>Dismantling doors, windows and clerestory windows (steel or wood) shutter of any size</b> including chowkhats, architrave, holdfasts etc. complete and stacking dismantle materials in MDL Scrap yard.	Nos	1.00	360.64	
6.02	<b>Removing and refixing existing door or window with frames and shutters</b> , resize and making good the damaged brick work and applying 3 coats of Syn. Ena. Paint.	Nos	1.00	2617.40	
6.03	<b>Providing &amp; fixing IInd class Teak Wood in window /doors frames / shutters</b> as per existing section in place of decayed portion and fixed in position by joining with the existing etc. complete as directed.	Cum.	1.00	143573.36	
6.04	<b>Providing and applying melamine polish</b> of required finish to the wood work by spray machine including knotting and preparing the even surface by scraping, applying French polish , scaffolding if required etc. complete.	Sqm	1.00	991.75	
6.05	Providing & applying <b>readymade wax polish</b> to the new or old work in two coats including knotting, preparing the surface by scrapping, scaffolding etc. complete as directed.	Sqm	1.00	173.76	
6.06	Providing and applying <b>french spirit polishing</b> : Two or more coats on old/new works including a coat of wood filler. complete	Sqm	1.00	448.20	
6.07	Providing and applying <b>French Polishing to New wood work</b> including knotting, preparing the surface, scaffolding etc complete as directed.	Sqm	1.00	288.31	
6.08	Providing and applying <b>French Polishing</b> for required finish <b>on previously polished wood</b> including knotting, preparing the surface, scaffolding etc complete as directed.	Sqm	1.00	147.15	
6.09	<b>Providing and applying one coat Varnishing</b> with varnish of approved brand and manufacture <b>including surface preparation, scrapping, scaffolding etc complete.</b>	Sqm	1.00	49.05	
6.10	<b>Providing and applying two coat Varnishing</b> with varnish of approved brand and manufacture <b>including surface</b>	Sqm	1.00	76.56	



	<b>preparation, scrapping, scaffolding etc complete. with spar varnish.</b>				
6.11	Providing and applying <b>PU polish</b> of required smooth finish of average thickness upto 3mm to the wood work by spray machine including knotting and preparing the even surface by scraping, packing the surrounding and cleaning. complete.	Sqm	1.00	2790.52	
6.12	Providing and applying <b>Colour PU polish</b> of required smooth finish of average thickness upto 3mm to the wood work by spray machine including knotting and preparing the even surface by scraping, packing the surrounding and cleaning. complete.	Sqm	1.00	5279.37	
6.13	Providing and applying Colour Lacquer polish of required smooth finish of average thickness upto 3mm to the wood work by spray machine including knotting and preparing the even surface by scraping, packing the surrounding and cleaning. complete. Note:The work to be executed on prior approval of Engineer-In-charge will be necessary.	Sqm	1.00	2338.01	
6.14	Providing and fixing 30mm thick <b>Phenol Bonded solid core flush door shutters</b> for sliding or 'Sliding and folding' door, commercial type hot pressed with 3mm thick veneer on both faces as per design conforming to IS:2202-1991 (Part I & II) with 3 coats of French polishing, with 12mm thick T.W. lipping all around as per detailed specifications including sliding and folding door system as approved, gear with necessary track, brackets, and all necessary special fittings as per manufacturer's specifications complete as directed. (Hinges, aldrops & standard door hardware to be paid separately )	Sqm	1.00	5591.07	
6.15	Providing & applying <b>Polyurethane based wood coating</b> to the new or old work in two coats including knotting, preparing the surface by scrapping, scaffolding etc. complete as per manufacturers specifications and as directed.	Sqm	1.00	265.56	
6.16	Providing and fixing <b>fire doors with 2 hour fire rating</b> conforming to IS: 3614 (Part 2), BS 476 (Parts 20 & 22), ISO 834 ; 45 mm thick fully flush, double skin door shell with lock seam joints at stile edges made from 1.25 mm thick galvanized steel sheet including door frames made from 1.6 mm thick galvanized steel sheet formed to double rebate profile of size 143 mm x 57mm as per manufacturer's instructions, door frames and shutter primed with Zinc Phosphate stoving Primer and finished with Polyurethane Aliphatic grade or epoxy paint including ironmongery consisting of stainless steel ball bearing butt hinges 3 mm thick fixed flush to the frame and shutter, full width horizontal handles (panic bar), concealed flush bolts, door closers, other standards fixtures	Sqm	1.00	26085.48	





	and fasteners, etc. complete for the following clear opening sizes:				
6.17	Providing & fixing in position <b>35 mm thick 1st quality water proof Single Leaf solid core Flush Door for W.C.</b> with 1.5mm thick laminate on both sides with 12x35mm lipping patti on all egdes. Rate is inclusive of s.s.fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement,, door stopper of make ( ozone, Hettich,Hafle ) 450 x 150mm aluminum ventilation grill powder coated, as per architect's detailed drg.and design complete	Sqm	1.00	11854.25	
6.18	Providing and fixing in position, <b>Single/Double leaf solid core flush door</b> of required size including providing & fixing T.W. frame 60mm x 150mm., 45mm thick solid code hard wood block board shutters with 25mm x 45mm lipping patti, allround the shutter & finished with 1mm thick approved textured laminates on either sides, finishing all exposed surfaces of wood with approved shade french polish, treating all the surfaces of wood in contact with masonry with tar paint (Black Japan), chrominum plated brass fittings & fastenings, S.S. handles etc. complete as per detailed drawing and as directed by the Engineer In charge.	Sqm	1.00	1.09	
6.19	Providing and fixing on site <b>VENEER FINISH WALL PANELING</b> made by using approved quality seasoned T.W. framing of 38 x 25 mm at approximately600 x 450 mm center to center or as per site conditions and covered by12 mm thick marine ply generally confirming to I.S.303 /I.S.710-1980 finished with 3 mm thick group match veneer of approvedquality with groove pattern including all necessary end mouldings, moulding pattern, and melamine polish. Antitermite treatment toplywood and woodwork etc.including all leads & lifts complete as perArchitects detailed drg. & design and as instructed by The Engineer In Charge (Basic Veneer Rate Rs.807/- per sqm)	Sqm	1.00	5842.43	
6.20	Providing & Fixing well seasoned old burma <b>Teak wood skirting of 25mm thickness &amp; 250mm height</b> in the required position & of the profile shown in the drawings including all moulding,grooves rough grounds,raw plugs, if necessary & finished with approved coloured stained matt water based PU coat of ICA or INCHEM of equivalent Make using approved coloured stainers of the same company.	Rmt	1.00	2732.15	
6.21	Providing and fixing <b>glazing panels &amp; doors using 12mm thk toughen clear glass</b> (confirming to ASTM Standards C-1048) supported byc-channel (embedded in the floor) at the bottom & side edge and wall connecting profile at the top edge,stainless steel articulated	Sqm	1.00	13850.91	





	countersunk bolts threaded bolts, chemical fasteners, etc., glass panel size as per design and drawing including applying colourless sealant of joint incl. required edge polish, making glazing water tight etc. Destructive node joint test reports to be submitted forestablishing the safety factor, including operating hardware, SS patch fittings, fabricated long length satin finish SS 304 handles, patchlock, floor springs etc., complete as directed by the architect for frameless patch doors, single or twin leaf shutters with fixed panel on top. Hardware-Droma BTS 80 Floor Spring				
6.22	Providing and fixing <b>Fiber Glass Reinforced plastic (FRP) Door Frames</b> of cross-section 90mm x 45mm having rebates of 32mm x 15mm size to receive shutter of 30mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in the frame. The frame shall be covered with fiberglass from all sides. M.S. stay shall be provided at the bottom to steady the frame etc. complete as directed.	Rmt	1.00	667.74	
6.23	Providing and Fixing to frames <b>30mm thick Fiber glass Reinforced Plastic (F.R.P.) flush door shutter</b> in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000 etc complete as directed.	Sqm	1.00	3452.34	
	Providing and fixing factory made <b>UPVC door frame of extruded section</b> having an overall dimension as below (tolerance $\pm 1$ mm) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$ , corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitered and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame as per manufacturers specification etc. complete as directed.				
6.24	Extruded section profile size 48x40 mm.	Rmt	1.00	174.86	
6.25	Extruded section profile size 42x50 mm	Rmt	1.00	160.65	
6.26	Providing and fixing 24 mm thick factory made <b>PVC door shutters</b> made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness $2\text{ mm} \pm 0.2\text{ mm}$ with inbuilt edging on both sides. The styles and rails mitered and joined at the corners by means of	Sqm	1.00	1704.86	



	M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm $\pm$ 0.1 mm wall thickness. The lock rail made up of 'H' section, a UPVC hollow section of size 100x24 mm and 2 mm $\pm$ 0.2 mm wall thickness fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm $\pm$ 0.1 mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, as per manufacturer's specification etc. complete as directed. (For W.C. and bathroom door shutter).				
6.27	Providing and fixing <b>25mm thick PVC flush door shutters</b> made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm $\pm$ 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with high density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25MM X 11MM. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places etc. complete as directed.	Sqm	1.00	1607.60	
6.28	<b>Design, fabrication &amp; Installation of FRP LOUVERS</b> with 30 mm clear space including aluminium EURO support system for accommodating FRP louvers consist of aluminium angle brackets of 50 x 50 x 5 mm with EPDM gaskets & anchor fasteners (HILTY make) etc. Louvers as design including 60 mm x 30 mm section UPVC FINS & . as per Architect/Engineer incharge.	Sqm	1.00	3092.79	
6.29	<b>25 mm wooden planking</b> , tongued and grooved in flooring, including fixing with iron screws complete with <b>Second class teak wood</b>	Sqm	1.00	4528.62	
6.30	<b>25 mm wooden planking</b> , tongued and grooved in flooring, including fixing with iron screws complete with <b>second class deodar wood</b>	Sqm	1.00	3042.97	
6.31	<b>38 mm thick wood block flooring of first class teak wood</b> laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2	Sqm	1.00	12072.89	



	coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.				
6.32	Providing and fixing <b>Wooden Flooring-8mm thk.</b> etc. Complete. As per Engineer Incharge approval	Sqm	1.00	1280.95	
6.33	Providing and fixing <b>Wooden Floor Skirting-3" -8mm thk.</b> etc. Complete. As per Engineer Incharge approval	Sqm	1.00	240.84	
6.34	<b>P &amp; F 6mm Toughened Glass</b> with edge polishing cut out for cable manager etc. on Existing Table as Table Top etc. complete.	Sqm	1.00	1798.94	
	Providing and fixing <b>bright finished brass butt hinges</b> with necessary screws etc. complete :				
6.35	125x85x5.5 mm (heavy type)	each	1.00	269.82	
6.36	125x70x4 mm (ordinary type)	each	1.00	185.96	
6.37	100x85x5.5 mm (heavy type)	each	1.00	207.30	
6.38	100x70x4 mm (ordinary type)	each	1.00	148.90	
6.39	75x65x4 mm (heavy type)	each	1.00	174.16	
6.40	75x40x2.5 mm (ordinary type)	each	1.00	102.29	
6.41	50x40x2.5 mm (ordinary type)	each	1.00	41.08	
	Providing and fixing <b>bright finished brass parliamentary hinges</b> with necessary screws etc. complete :				
6.42	150x125x27x5 mm	each	1.00	465.17	
6.43	125x125x27x5 mm	each	1.00	416.41	
6.44	100x125x27x5 mm	each	1.00	383.42	
6.45	75x100x20x3.2 mm	each	1.00	340.68	
	Providing and fixing <b>bright finished brass tower bolts (barrel type)</b> with necessary screws etc. complete :				
6.46	250x10 mm	each	1.00	443.53	
6.47	200x10 mm	each	1.00	359.96	
6.48	150x10 mm	each	1.00	288.50	
6.49	100x10 mm	each	1.00	198.36	
	Providing and fixing <b>bright finished brass door latch</b> with necessary screws etc. complete :				
6.50	300x16x5 mm	each	1.00	323.61	
6.51	250x16x5 mm	each	1.00	309.34	
6.52	Providing and fixing <b>bright finished brass 100 mm mortice latch and lock</b> with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	each	1.00	858.38	
6.53	Providing and fixing <b>bright finished brass 100 mm mortice latch</b> with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	each	1.00	729.77	
6.54	Providing and fixing <b>bright finished brass night latch</b> including necessary screws etc. complete (best make of approved quality).	each	1.00	1188.46	



	Providing and fixing special quality <b>bright finished brass cupboard or ward robe locks</b> with four levers including necessary screws etc. complete (best make of approved quality) :				
6.55	40 mm	each	1.00	312.56	
6.56	50 mm	each	1.00	358.31	
6.57	65 mm	each	1.00	363.98	
6.58	75 mm	each	1.00	388.29	
6.59	Providing and fixing <b>50 mm bright finished brass cup board or wardrobe knob</b> with necessary screws (best make of approved quality)	each	1.00	74.57	
	Providing and fixing bright finished brass handles with screws etc. complete :				
6.60	125 mm	each	1.00	257.77	
6.61	100 mm	each	1.00	235.72	
6.62	75 mm	each	1.00	185.76	
6.63	Providing and fixing <b>bright finished brass hanging type floor door stopper</b> with necessary screws, etc. complete.	each	1.00	122.18	
6.64	Providing and fixing aluminium die cast body tubular type <b>universal hydraulic door closer</b> (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc. complete.	each	1.00	1129.76	
6.65	Providing and fixing <b>bright finished brass casement window fastener</b> with necessary screws etc. complete.	each	1.00	89.39	
	Providing and fixing <b>bright finished brass casement stays (straight peg type)</b> with necessary screws etc. complete :				
6.66	300 mm weighing not less than 330 gms	each	1.00	219.10	
6.67	250 mm weighing not less than 280 gms	each	1.00	176.57	
6.68	200 mm weighing not less than 240 gms	each	1.00	167.98	
	Providing and fixing <b>bright finished brass hasp and staple (safety type)</b> with necessary screws etc. complete:				
6.69	150 mm	each	1.00	139.71	
6.70	115 mm	each	1.00	126.55	
6.71	90 mm	each	1.00	111.53	
	<b>Chromium plated brass fittings : Code No.-</b>				
6.72	Providing and fixing chromium plated brass <b>100mm mortice latch and lock</b> with 6 levers and a pair of lever handles with necessary screws etc complete of approved make and quality.	Nos	1.00	1002.71	
6.73	Providing and fixing chromium plated brass <b>Night latch</b> with necessary screws etc complete of approved make and quality.	Nos	1.00	956.96	
6.74	Providing and fixing chromium plated brass <b>cupboard locks of size 75mm</b> with six levers with necessary screws etc complete of approved make and quality.	Nos	1.00	411.14	
6.75	Providing and fixing chromium plated brass <b>cupboard knob / wardrobe knob of size 50mm</b> with nuts etc complete of approved make and quality.	Nos	1.00	151.71	



6.76	Providing and fixing chromium plated brass <b>handles of 125mm</b> with necessary screws etc complete of approved make and quality.	Nos	1.00	232.06	
	<b>Copper oxidised mild steel fittings :</b>				
6.77	Providing and fixing ISI marked copper oxidised mild steel Sliding door bolts with nuts and necessary screws etc complete -250*16mm	Nos	1.00	194.55	
6.78	Providing and fixing ISI marked copper oxidised mild steel MS tower bolt black finish (barrel type) with necessary screws etc complete - 200*10mm	Nos	1.00	69.70	
6.79	Providing and fixing ISI marked copper oxidised mild steel <b>85mm * 42mm pull bolt lock</b> conforming to IS 7534 with necessary screws, bolts, nut and washers etc complete	Nos	1.00	122.68	
6.80	Providing and fixing ISI marked copper oxidised mild steel <b>MS handles of size 125mm</b> conforming to IS 4992 including necessary screws etc complete	Nos	1.00	40.12	
6.81	Providing and fixing copper oxidised mild steel <b>Hasp and staple (safety type)</b> of size 115mm conforming to IS 363 with necessary screws etc complete	Nos	1.00	29.83	
6.82	Providing and fixing copper oxidised mild steel <b>MS safety chain</b> with necessary fixtures for doors (weighing not less than 450 gms)	Nos	1.00	101.04	
	Providing and fixing ISI marked Anodised <b>Aluminium Fittings (anodic coating</b> not less than AC 10 as per IS 1868 transparent or dyed to required colour or shade )				
6.83	<b>Sliding door bolts</b> of size 250 x 16mm with nuts and screws complete	Nos	1.00	261.74	
6.84	<b>Tower bolts</b> of size 200 x 10mm with nuts and screws complete	Nos	1.00	100.13	
6.85	<b>Pull bolt lock</b> with nuts and screws complete	Nos	1.00	101.24	
6.86	<b>kicking plate</b> 50 cm long and 100 x 3.15 mm size with necessary screws complete	Nos	1.00	240.44	
6.87	<b>Handles</b> of 125mm with necessary screws complete	Nos	1.00	66.54	
6.88	<b>Hanging floor door stopper</b> with single rubber stopper with necessary screws complete	Nos	1.00	39.77	
6.89	<b>Hanging floor door stopper</b> with Twin rubber stopper with necessary screws complete	Nos	1.00	72.67	
6.90	Providing and fixing 600 x 120 x 5mm <b>glass shelf</b> with edges round of supported on anodised aluminium angle frame with CP brass brackets and guard rail complete fixed with 40mm long screws, rawl plugs etc complete	Nos	1.00	1088.23	
6.91	<b>Providing and fixing panelling and glazing in panelled</b> or panelled and glazed shutter for doors, windows and clerestory windows ( Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutter 25mm to 40mm thick. <b>Ply wood 5 ply, 9 mm thick</b> Decorative plywood both side decorative veneer ( type Code No.-I ) confirming to IS 1328 BWR type	Sqm	1.00	2736.14	



6.92	<b>Providing and fixing panelling and glazing in panelled</b> or panelled and glazed shutter for doors, windows and clerestory windows ( Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutter 25mm to 40mm thick. <b>Ply wood 5 ply, 9 mm thick</b> Decorative plywood one side decorative veneer and commercial veneer on other side ( type Code No.-I ) confirming to IS 1328 BWR type	Sqm	1.00	2710.17	
6.93	Providing and fixing panelling and glazing in panelled or panelled and glazed shutter for doors, windows and clerestory windows ( Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutter 25mm to 40mm thick <b>Ply wood 7 ply, 9 mm thick</b> Decorative plywood one side decorative veneer and commercial veneer on other face ( type Code No.-I ) confirming to IS 1328 BWR type	Sqm	1.00	2919.73	
6.94	Particle Board 12 mm thick Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I , IS:3087 marked	Sqm	1.00	1700.39	
6.95	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete: with 12 mm mild steel U beading	Sqm	1.00	943.30	
6.96	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete :- Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	Sqm	1.00	848.39	
6.97	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete:- Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm	1.00	1138.50	
6.98	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets -20 mm dia (heavy type)	meter	1.00	175.76	
6.99	Providing and fixing nickel plated M.S. pipe curtain rods with nickel nickel plated brackets -25 mm dia (heavy type)	meter	1.00	187.21	
6.100	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete:- 20 mm dia.	meter	1.00	345.00	
6.101	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete:- 25 mm dia.	meter	1.00	423.59	
6.102	<b>North light glass:</b> Dismantling carefully existing broken glasses and providing & fixing 6mm thick wired glass for North Light with	Sqm	1.00	479.27	





	putty and nails, wherever necessary including cutting of glass etc. complete all as directed				
6.103	Providing & Fixing <b>Fly / Mosquito proof Stainless Steel wire mesh</b> grade 304 to anodised (AC-15) aluminium frames / shutters with necessary fixtures, fittings etc complete (Note: For Aluminum Sections, total weight shall be upto 3.5 kg/sq.m.)	Sqm	1.00	1734.37	
6.104	Providing & fixing approved type of Soft Translucent <b>Roller Blinds</b> with imported mechanism, approved make on windows. (Basic cost of Rs. 1223/- Sqmt)	Sqm	1.00	1233.51	
6.105	<b>Storage Cabinet as per design</b> - Providing and installing Low height storage unit 450mm deep and 1200 mm high having 2 nos. of shelves with post form top & shutters using 25mm thick marine ply vertical, horizontal, top, bottom back and shutters (For partitions and shelves) with 1.5mm thick laminate for all external surfaces & 1mm thick laminate finish for all internal surfaces including both sides, all the edges finished with PVC edge band, openable shutters with all fixtures, fitting, hinges, handles, ball catches and locks etc. complete as directed. (Basic Rate of Laminate of Rs.707/-Sq.mt)	Sqm	1.00	11841.82	
6.106	<b>Installing full height storage</b> unit of 770mm deep, one side,top and bottom sides,shelf and shutters of 18mm marine ply and 1mm white laminate from inside and 1mm Khakhi laminate from outside including handles,hinges and lock along with white colour powder coated anodized aluminium grill louvers of 0.345sqm per unit area (sqm) as per Engineer incharge instruction.	Sqm	1.00	27301.50	
6.107	<b>Providing and installing Low height storage</b> unit 700mm high and 445mm deep having 1 no. of shelves using 18mm thick marine ply at sides, top, bottom,back and shutters finished with 1mm thick white laminate for inside surfaces and walnut laminate for external surfaces with hinges, and locks as per Engineer incharge instruction	Sqm	1.00	28193.20	
6.108	<b>Providing &amp; fixing/Making Book Storage</b> of Size 0.9m x 0.3m x 2.1 (H) made of 19mm marine Ply wood at Top Bottom, Sides. At Bottom 100mm Skirting of 19mm thk. marine Ply wood. With 1.5 mm thk. Laminate finish from in sides & Out sides. Partly Glazed shutters made up from 25mm thk. marine plywood as per approved drawing attached etc., Provide shelf 0.9 x 0.3 m @ clear distance 300mm- 5 nos. Magnates, SS Handle/Nob with lock, soft closing hinges. etc. as per approval. Back side of the staorage finish with 8mm thk Ply wood with 1mm thk. white laminate from Out side. etc complete	Sqm	1.00	17072.16	
6.109	<b>Pantry Shutter:</b> Providing and fixing Teakwood frames, 25mm x 40mm with Shutters to pantry counter made out of 19mm Marine Plywood	Sqm	1.00	6683.93	





	finished with approved 1.5mm thick for external surface & 1mm thick laminate for internal surface as directed etc. complete. (Basic rate of Laminate of Rs. 912/-Sqmt)				
6.110	<b>New French windows :</b> Supply, providing and fixing of french Casement window madeup of GI sheet profile frame and shutter, 5mm thk clear glass shutter openable to outside and Internal shutter for bird protection madeup of 6mm dia MS bar grill having clear opening of 50mmx50mm. The Grill shutter openable inside. All the window section powder coated (Off white colour). Complete with all fitting and fixtures. The weight of complete window including glass will be calculated for payment. No seperate payment for glass and accessaries.	Kg	1.00	318.49	
6.111	<b>Vision Panel :</b> Extra for providing vision panel in all type of flush doors including the cost of glass and as directed by Engineer-In-charge ( Actual area of glass to be paid)	Sqm	1.00	2085.85	
6.112	<b>"Providing &amp; fixing Linear workstation-1200X600X750mm</b> System : - 60 mm Partition x 1200 mm H, Aluminium Trims and Double Raceway Leg out of 16 gauge, dia- cast aluminium with approved finish and approved color / 2 mm thk M. S. Leg of approved style /design & finish.10-12 module Access flap in aluminium or laminate finish with brush for wire management, as per attached image and switches to be placed within the access flap, the switches to be provided by electrical contractor. 25 mm thk prelaminated particle board for top with edge banding as approved. Pin up board + writing board to be accommodated with the 25 mm thk divider panel Accessories to be fixed by an pre approved system to the divider panel Accessories :- Pencil Holder, Cup Holder, Paper Tray, Book Shelf, Keyboard Tray, CPU Trolley Free standing pedestal - 450X450X650, prelam carcus (Box) Particle board with 3equal drawers. cable manager through cable risers & cable trays below the table, separate for data & IT. etc. complete.	Nos	1.00	21354.27	
6.113	<b>Angular Work Station:</b> Providing and placing DESK based modular workstation with System ht - 1050/1200 mm PARTIAL SCREENS: framed aluminum extrusions (HE-9 IS: 63400) screens in 23 mm thickness in Single/ double block has been offered in fabric/fab mag/prelam/white board finsh. END TO END SCREENS: 23 mm thk screens framed aluminum extrusions (HE-9 IS: 63400) single block/double block om the shared conditions and double block/3 block for aisle screens. The respective finishes for the screens shall be fab/fabric magnetic/white	Nos	1.00	51372.46	



	<p>board/laminated.</p> <p>UNDERSTRUCTURE: Comprising of metal powder coated cross connectors between legs, legs CO2 welded</p> <p>MS tube of section 50.8mm x 50.8mm x 1.2mm thick (as per IS: 7138 ERW) made up of metal powder coated finish with average 50 to 60-micron thickness of epoxy powder coating and the entire assembly is fixed to the worktop with the help of ABS plastic spacers 20 mm high which gives the floating look to the w/s module.</p> <p>Wire Management : Metal powder coated Cable pole of size 170mm w x 85 mm d x 705 mm ht/ snake wire/ cable riser leg is given to pull wires from the floor junction box up to the power box fixed under neath the worktop.</p>				
	<p>Aluminium access flaps on worktop above power box cut out for accessing switches. To carry wires forward through w/s mesh type wire carrier assembly is provided below worktops.</p> <p>HALF SCREEN: Half screen along the depth of worktop is given in fabric/fabric magnetic/ glass/ lexan/DL of thickness 23 mm. This screen shall be framed single block screen and will match system ht and worktop depth.</p> <p>Work surface - out of 25 mm thk prelaminated particle board interior grade (As per IS: 12823) with flat pvc lipping edge banding of size 1500 mm w x 1500 mm W x 600 mm d.</p> <p>Pedestals -The free-standing full height and now low height partitions shall be offered with the system. All drawers shall be with double extension precision ball slide. For opening of the drawer, side wise tapered recess shall be provided in shell behind drawer fronts. The castors shall be provided in the 4 corners at the base. The fifth roller shall be provided for anti-tipping of the pedestal.size 390 mm w x 435 mm d x 646 mm ht</p> <p>3dr = 2box+1file. CPU trolley - with castors KBPT with/without mouse tray - plastic/metal/articulated</p>				
	<p>File Holder - This shall be made from 1.6mm thick MS CRCA Grade D as per IS: 513-1994. This shall be slid to any convenient location along the groove in the horizontal extrusion.File holder shall be coated with min 45-micron thickness of epoxy powder coating.</p> <p>Mobile Holder - This shall be fabricated with</p>				



	<p>blank 195.1L x 154.5W (IS: 513-1994, 0.8mm CRMS) and shall be coated with minimum 45-micron thickness of epoxy powder coating. Overall size of the mobile holder shall be 137.6W x 86.6D x 96.3H.</p> <p>Pen stand - Front of this 155.1L x 119.1W shall be spot welded with pen stand back 127.8L x 80.0W (IS: 513-1994, 0.8mm CRMS) at bottom side and CO2 shall be welded at two sides and shall be coated with min 45-micron thickness of epoxy powder coating. Overall size of the pen stand shall be 84.9W x 46.5D x 103.8H.</p> <p>Name Plate - This shall be made up of name plate front and back of 0.8mm thick M.S. CRCA Grade D as per IS: 513-1994 with spot welded together. It shall be bent at top and bottom edges to create the cavity to slide paper. Name plate shall be slid to any convenient location along the groove in the horizontal extrusion. It shall be coated with min. 45-micron thickness of epoxy powder coating.</p>				
6.114	<p><b>Conference Table-</b> Providing and fixing table made up of TOP- 40X40mmTW frame @ 450mm C/C with 19mm thick marine plywood finished with 4mm thick veneer with melamine polish, bottom with 9mm thick marine plywood finished with 4mm thick veneer with melamine polish, 10mm thick BTC patti @ side with melamine polish, 300mm wide &amp; 8mm thick toughened back painted glass fixed on top. Support - Made up of 19mm thick marine plywood finished with 4mm thick veneer with melamine polish outside, 1mm thick laminate inside, Shutter - 19mm thick marine plywood finished with 4mm thick veneer with melamine polish outside &amp; 1mm thick laminate from inside, 50mm high SS Skirting, including supports, drawers, POP up box for electrical/DATA points etc. complete as directed of approved shape &amp; design as per drawing, all as directed. (Basic Rate of Laminate of Rs. 443/-Sq.mt) (Basic rate of Veneer of Rs. 2622/-Sq.mt)</p> <p>Conference room table of size L X W X 750mm High, with 3nos flip top cable managers. L &amp; W to be decided as per site condition</p>	Sqm	1.00	23807.76	
6.115	<p><b>Conference Room Chairs:</b> Supplying and fixing chairs with height adjustable armrest with side swivel, chrome legs with Nylon castor, adjustable lumber support, Hydraulic adjustment height, tilt adjustment and tilt locking, thigh support, sliding seat with 12mm thick plywood base with leatherite/fabric and moulded PU foam infill etc. complete as per</p>	Nos	1.00	8904.13	



	approved by Engineer Incharge. (Basic Cost Of Chair Rs.7983/- Per No)				
6.116	<p><b>GM table</b> - Providing and fixing table &amp; Apron made up of 19+12mm thick marine plywood, 4mm thick veneer finished top &amp; Bottom with melamine polish, 6mm thick clear NR glass fixed on top, bottom - 19mm thick marine plywood finished with 4mm thick veneer with melamine polish,</p> <p><b>Side credenza &amp; Back unit</b> - 25mm thick postform top fixed on 19mm thick marine plywood with hinged shutter,,backside 9mm thick marine ply finished with 1mm thick laminate,verticals 19mm thick marine ply finished with laminate, drawers 19mm thick marine ply finished with 1mm thick laminate, including supports, etc. complete as directed of approved shape &amp; design as per drawing, all as directed. Sizes are following.(Basic Rate of Laminate of Rs. 443/-Sq.mt)(Basic rate of Veneer of Rs. 2622/-Sq.mt)</p> <p><b>SIZE - 2100 X 900 X 750mm high, Side credenza 1050 X 450mm, back unit 2100 X 450mm.</b></p>	Nos	1.00	164141.21	
6.117	<p><b>AGM Table</b> - Providing and fixing table &amp; Apron made up of 19+12mm thick marine plywood, 4mm thick veneer finished top &amp; Bottom with melamine polish, 6mm thick clear NR glass fixed on top, bottom - 19mm thick marine plywood finished with 4mm thick veneer with melamine polish,</p> <p><b>Side credenza &amp; Back unit</b> - 25mm thick postform top fixed on 19mm thick marine plywood with hinged shutter,,backside 9mm thick marine ply finished with 1mm thick laminate,verticals 19mm thick marine ply finished with laminate, drawers 19mm thick marine ply finished with 1mm thick laminate, including supports, etc. complete as directed of approved shape &amp; design as per drawing, all as directed. Sizes are following.(Basic Rate of Laminate of Rs. 443/-Sq.mt)(Basic rate of Veneer of Rs. 2622/-Sq.mt)</p> <p><b>SIZE - 1950 X 900 X 750mm high, Side credenza 1050 X 450mm, back unit 1950 X 450mm.</b></p>	Nos	1.00	158228.86	
6.118	<p><b>DGM Table</b>- Providing and fixing table &amp; Apron made up of 19+12mm thick marine plywood, 4mm thick veneer finished top &amp; Bottom with melamine polish, 6mm thick clear NR glass fixed on top, bottom - 19mm thick marine plywood finished with 4mm thick veneer with melamine polish,</p> <p><b>Side credenza &amp; Back unit</b> - 25mm thick postform top fixed on 19mm thick marine plywood with hinged shutter,,backside 9mm thick marine ply finished with 1mm thick laminate,verticals 19mm thick marine ply finished with laminate, drawers 19mm thick marine ply finished with 1mm thick laminate,</p>	Nos	1.00	130635.21	



	including supports, etc. complete as directed of approved shape & design as per drawing, all as directed. Sizes are following.(Basic Rate of Laminate of Rs. 443/-Sq.mt)(Basic rate of Veneer of Rs. 2622/-Sq.mt) <b>SIZE - 1500 X 750 X 750mm high, Side credenza 1050 X 450mm, back unit 1500 X 450mm.</b>				
6.119	<b>CM Table-</b> Providing and fixing table & Apren made up of 19+12mm thick marine plywood, 4mm thick veneer finished top & Bottom with melamine polish, 6mm thick clear NR glass fixed on top, bottom - 19mm thick marine plywood finished with 4mm thick veneer with melamine polish, <b>Side credenza &amp; Back unit</b> - 25mm thick postform top fixed on 19mm thick marine plywoode with hinged shutter,,backside 9mm thick marine ply finished with 1mm thick laminate,verticles 19mm thick marine ply finished with laminate, drawers 19mm thick marine ply finished with 1mm thick laminate, including supports, etc. complete as directed of approved shape & design as per drawing, all as directed. Sizes are following.(Basic Rate of Laminate of Rs. 443/-Sq.mt)(Basic rate of Veneer of Rs. 2622/-Sq.mt) <b>SIZE - 1500 X 750 X 750mm high, Side credenza 900 X 450mm, back unit 1500 X 450mm.</b>	Nos	1.00	102165.82	
6.120	<b>Repro table-</b> Providing and fixing Repro table made up of 25mm thick postform top, Verticle, shutter, drawer with 19mm thick marine plywood finished with 4mm thick veneer with melamine polish from outside & 1mm thick laminate from inside, Back- with 9mm thick marine plywood finished with 1mm thick laminate fixed on both sides, 50mm high ss skirting including supports,drawers, etc. complete as directed of approved shape & design as per drawing, all as directed. Sizes are following.(Basic Rate of Laminate of Rs. 848/-Sq.mt)(Basic rate of Veneer of Rs. 2622/-Sq.mt) <b>Repro table of size 1225 X 700 X 750mm high</b>	Nos	1.00	35472.89	
6.121	<b>Ace Full Back Chair:</b> Supplying and fixing chairs with height adjustable armrest with side swivel, chrome legs with Nylon castor, adjustable lumber support, Hydrolic adjustment height, tilt adjustment and tilt locking, adjustable thigh support, adjustable headrest with coat hanger arrangement, sliding seat with 12mm thick plywood base with leatherite/fabric and moulded PU foam infill etc. complete as per approved by Engineer Incharge + Neckerst for Ace Chair. (Basic Cost Of Chair Rs.17047/- Per No)	Nos	1.00	19015.37	



6.122	<b>DGM Chair:</b> Supplying and fixing chairs with height adjustable armrest with side swivel, chrome legs with Nylon castor, adjustable lumber support, Hydraulic adjustment height, tilt adjustment and tilt locking, adjustable thigh support, adjustable headrest, sliding seat with 12mm thick plywood base with leatherite/ fabric and moulded PU foam infill etc. complete as per approved by Engineer Incharge.(Basic Cost Of Chair Rs.17047/- Per No)	Nos	1.00	17810.41	
6.123	<b>Visitors Chairs:</b> Supplying and fixing chairs with height armrest with side swivel, chrome legs with Nylon castor, fixed lumber support, Hydraulic adjustment height, fixed handles, seat with 12mm thick plywood base with leatherite/fabric and moulded PU foam infill etc. complete as per approved by Engineer Incharge. (Basic Cost Of Chair Rs.8941/- Per No)	Nos	1.00	9973.31	
6.124	<b>Linear &amp; angular workstation,reception chair:</b> Supplying and fixing chairs with height adjustable armrest with side swivel, chrome legs with Nylon castor, adjustable lumber support, Hydraulic adjustment height, tilt adjustment and tilt locking, thigh support, sliding seat with 12mm thick plywood base with leatherite/fabric and moulded PU foam infill etc. complete as per approved by Engineer Incharge. (Basic Cost Of Chair Rs.10229/- Per No)	Nos	1.00	11409.72	
6.125	Supplying and fixing <b>Two seater wooden sofa</b> set of size 1790X770X490/740mm high with elastic belt in seat & back, Steel legs, PU foam of 32 density in seat & back, PU leather with approved colour etc. complete as per drawing. (Make - Pitroda Furniture/Burosys/Meraj Marketing). (Basic Cost Of Sofa Rs.22298/- Per No)	Nos	1.00	24804.99	
6.126	<b>Providing &amp; Supplying 600 dia. 600mm heigh side/ Centre Table</b> with SS Base & Frame with 10mm thk. Toughened glass etc. complete. (Basic Cost Of Table Rs. 4228/- Per No)	Nos	1.00	4715.34	
6.127	Providing & Fixing frosted film, manufactured by 3 M approved equivalent on glass partition including MDL logo where ever required and approved by EIC. No separate payment shall be done for MDL logo.	Sqm	1.00	1419.63	
<b>7</b>	<b>EXTERNAL / INTERNAL PAINTING WORK</b>				
7.01	<b>Removing white or colour wash by scrapping and sand papering</b> and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	1.00	19.84	
7.02	<b>Removing dry or oil bound distemper, water proofing cement paint</b> and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	1.00	25.26	





7.03	<b>Removing old paint</b> from steel and metal surface and making the surface even with hand scrapping, scaffolding etc complete	Sqm	1.00	20.34	
7.04	Providing & Applying two coats of <b>oil bound washable distemper or 1st quality acrylic washable distemper</b> of approved brand and manufacture to give an even shade <b>on old surface including water thinable cement primer</b> with the help of brush, Rollers etc. including removing dry or oil bound distemper by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches including scaffolding etc. complete as directed.	Sqm	1.00	211.72	
7.05	Providing & Applying two coats of <b>oil bound washable distemper or 1st quality acrylic washable distemper</b> of approved brand and manufacture to give an even shade <b>including priming coat with cement primer on internal sides of new wall surface</b> with the help of brush, Rollers incl. scaffolding etc. complete as directed.	Sqm	1.00	186.46	
7.06	Providing & Applying two coats of <b>1st quality acrylic washable distemper</b> (ready made) of approved brand and manufacturer & of approved shade & colour to give an even shade including priming coat with cement primer on <b>existing painted internal surfaces</b> with the help of brush, Rollers etc. including removing dry or oil bound distemper by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches incl. scaffolding etc. complete as directed.	Sqm	1.00	225.48	
7.07	Providing & Applying two coats of <b>1st quality acrylic emulsion paint of interior grade</b> of approved brand and manufacturer & of approved shade & colour to give an even shade including priming coat with cement primer on internal sides of <b>new wall surface</b> with the help of brush, Rollers etc. including scaffolding etc. complete as directed.	Sqm	1.00	212.32	
7.08	Providing & Applying two coats of <b>Premium Acrylic emulsion paint of interior grade</b> of approved brand & manufacturer and shade to give uniform finish on new work with the help of brush, Rollers etc. complete as directed.	Sqm	1.00	143.42	
7.09	<b>Providing &amp; Applying two coats of synthetic enamel paint on new work</b> of approved brand & manufacturer and shade to give uniform finish with the help of brush, Rollers etc . complete as directed.	Sqm	1.00	156.58	
7.10	<b>Providing &amp; Applying two coats of synthetic enamel paint</b> of approved brand & manufacturer and shade to give uniform finish including primer undercoat of suitable shade of approved brand with the help of brush, Rollers etc. complete as directed.	Sqm	1.00	227.24	
7.11	<b>Providing &amp; applying one coat of ready mix pink or grey primer</b> of approved brand &	Sqm	1.00	70.66	





	manufacturer on wood work etc. complete as directed.				
7.12	<b>Providing &amp; applying one coat of ready mix red oxide zinc chromate primer</b> of approved brand & manufacturer on steel work etc. complete as directed.	Sqm	1.00	67.69	
7.13	Applying one coat of <b>water thinnable cement primer</b> of approved brand and manufacturer on wall surface.	Sqm	1.00	74.27	
7.14	Providing & Applying three coats of <b>white wash with lime</b> to give an even shade on new wall surfaces etc. complete as directed.	Sqm	1.00	39.22	
7.15	<b>Providing &amp; Applying two or more coats of colour wash of approved colour</b> with a base coat of white wash with lime to give an even finish on new wall surfaces etc. complete as directed.	Sqm	1.00	53.53	
7.16	Providing & Applying two or more coats of <b>white wash with lime</b> to give an even shade including removing white or colour wash by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete as directed.	Sqm	1.00	42.79	
7.17	Providing & Applying two or more coats of <b>colour wash with a base coat of white washing with lime</b> to give an even shade including removing white or colour wash by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete as directed.	Sqm	1.00	73.37	
7.18	Finishing walls with <b>Acrylic Smooth exterior paint</b> of required shade New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	Sqm	1.00	161.30	
7.19	Finishing walls with <b>textured exterior paint</b> of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of primer applied @ 2.20kg/10 sqm.	Sqm	1.00	224.58	
7.20	Finishing walls with <b>Premium Acrylic Smooth exterior paint</b> with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of primer applied @ 0.90 litre/ 10 sqm).	Sqm	1.00	171.85	
7.21	Finishing with <b>Epoxy paint (two or more coats)</b> at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface etc. complete-On Steel work	Sqm	1.00	242.80	
7.22	Finishing with <b>Epoxy paint (two or more coats)</b> at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface etc. complete-On concrete work	Sqm	1.00	236.18	
7.23	Painting with black <b>anti-corrosive bitumastic paint</b> of approved brand and manufacture to	Sqm	1.00	94.11	



	give an even shade : One or more coats on old work				
7.24	Finishing walls with <b>water proofing cement paint</b> of required shade on old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 ltrs/10 sqm complete including cost of Priming coat.	Sqm	1.00	113.39	
7.25	Finishing walls with <b>water proofing cement paint</b> of required shade on Old work (one or more coats @ 2.20 kg/10 sqm) complete	Sqm	1.00	76.13	
7.26	Finishing walls with <b>textured exterior paint</b> of required shade : Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	Sqm	1.00	169.94	
7.27	Finishing walls with <b>textured exterior paint</b> of required shade : Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	Sqm	1.00	109.58	
7.28	Finishing walls with <b>Acrylic Smooth exterior paint</b> of required shade on Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	Sqm	1.00	121.28	
7.29	Finishing walls with <b>Acrylic Smooth exterior paint</b> of required shade on Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	1.00	81.00	
7.30	Finishing walls with <b>Premium Acrylic Smooth exterior paint</b> with Silicone additives of required shade on old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	Sqm	1.00	131.87	
7.31	Finishing walls with <b>Premium Acrylic Smooth exterior paint</b> with Silicone additives of required shade on old work (one or more coats applied @ 0.83 ltr/10 sqm).	Sqm	1.00	88.94	
7.32	Providing and fixing <b>double scaffolding system (cup lock type)</b> on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin- charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.	Sqm	1.00	339.73	
7.33	Supplying and applying <b>pre tested and approved water based concrete curing compound</b> to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge. Non pigmented wet curing compound	Sqm	1.00	69.35	



7.34	Finishing walls with <b>Premium Acrylic Smooth exterior paint with Silicone additives</b> of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	Sq.m	1.00	171.85	
7.35	<b>Machine polishing</b> to cement/marble mosaic tiled flooring or any other type of flooring including cleaning, washing, etc. complete. Spec: (As directed by Engineer-in-Charge)	Sqm	1.00	211.75	
7.36	<b>Hand polishing to dado &amp; skirting</b> including cleaning, washing etc. complete as directed at any height / location.	Sqm	1.00	94.51	
7.37	Providing and applying two coats of <b>Aluminium paint</b> of approved brand & manufacture to give an even shade to structural steel in building and workshop including scaffolding & including cleaning, wire brushing and surface preparation etc; all complete.(Excluding Primer)	Sqm	1.00	153.13	
7.38	Providing and applying <b>two coats of water proof cement paint</b> of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	Sqm	1.00	94.51	
7.39	<b>Providing and applying Royale Luxury Emulsion of Asian / Berger / Nerolac / Dulux paint or equivalent make</b> on internal wall surface Scrapping with emery paper and wiping clean for area. Applying Asian / Berger / Nerolac / Dulux or equivalent wall primer with brush by adding mineral turpentine oil by 8 to 10 % or water by 15 to 20 % allowing to dry for 6 to 8 hours. Applying Asian / Berger / Nerolac / Dulux or equivalent wall putty with appropriate proportion of water of allowing to dry for period of 4 to 6 hours of activity. Scrapping with emery paper and wipe clean applying paints Royal Luxury emulsion 1st coat with brush water content water 40 to 45 % if applied by brush or 65 to 70 % if applied by roller. Applying paints Royal Luxury emulsion 2nd coat with brush water content water 40 to 45 % or 65 to 70 % by roller. (Excluding Scaffolding)	Sqm	1.00	328.99	
7.40	Providing and applying <b>Interior wall finish luster of Asian / Berger / Nerolac / Dulux paint or equivalent approved make on internal wall surface</b> as detailed below Scrapping the surface with emery paper and wipe clean for area. Applying Asian / Berger / Nerolac / Dulux or equivalent wall primer with brush with mineral turpentine of 8 to 10 % and oil 15 to 20 % with roller and allowing to dry for a period of 6 to 8 hours. Applying Asian / Berger / Nerolac / Dulux or equivalent Acrylic wall putty with appropriate proportion of water of allowing to dry for period of 4 to 6 hours. Scrapping with emery paper 180 and wipe clean. Applying Asian / Berger / Nerolac / Dulux or equivalent wall primer with brush	Sq.m	1.00	284.72	



	with mineral turpentine 8 to 10 % and oil 15 to 20 % with roller. Scrapping with emery paper 320 and wiping it clean, applying Asian / Berger / Nerolac / Dulux or equivalent interior wall finish luster 1st coat with brush/brush/spray with mineral turpentine 7 to 9 % and oil with roller 19 to 21 % after 8 hours of activity , applying 2nd coat of Asian / Berger / Nerolac / Dulux or equivalent interior wall finish luster with mineral turpentine 7 to 9 % with brush and oil with roller 19 to 21 % with roller, after allowing dry for the period of 6 to 8 hours activity. (Excluding Scaffolding)				
7.41	Providing and applying <b>external raincoat painting with crack filling</b> acrylic polymer based chemical compound coating to the external surface of walls to prevent water seepage in the masonry walls during monsoon added with required shade Steiner to give required shade to the surface in two coats. Including providing three coat of priming of polymer base primer including preparing surface scrapping the existing loose old paint, removing loose particles of sand on the surface opening and cleaning the cracks developed in the external plaster, removing loose particles by chiseling, filling cracks by chemicals compound of approved make with proper penetration etc. Coating of Raincoat with the help of brush and as per instructions and specification given by manufacturer and with instruction from Engineer in- charge. Work shall be executed by certified applicator only and covering gurantee of 3 years on court stamp paper of Rs. 500/- and necessary testing etc. complete	Sqm	1.00	309.85	
7.42	Providing and applying two coats of <b>exterior weather shield paint</b> of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary, and watering the surface for two days etc complete.	Sqm	1.00	352.91	
<b>8</b>	<b>ROOFING / SHEETING WORK</b>				
8.01	<b>Dismantling or Fixing</b> carefully AC /GI roofing sheets, Polycarbonate sheets, U cladding/ North light glasses including ridges, hips, valleys, gutters, coal tar etc. and stacking the serviceable aterials within 100 m lead including necessary screws and washers all complete as directed. (Sheets will be provided by MDL for fixing) Note: Rates should be inclusive of take away unserviceable material from MDL premises to Municipal dumping ground.	Sqm	1.00	130.30	
8.02	Supply and applying <b>M-Seal Chemical or bituminous sealing sheets</b> having one side aluminium foil of size 50x50mm size for sealing holes as directed	No.	1.00	6.52	



8.03	<b>Cleaning of MS/GI roofs, eve valley gutters</b> upto 600mm periphery of round rectangular section manually with broom etc all complete as directed inclusive of take away debris from MDL premises to Municipal dumping ground.	No.	1.00	32.58	
8.04	<b>Cleaning of grass, tree leafs,</b> bituminous old tarfelt of MS/GI/Galvalume/AC roofs, roof slab , terrace slab, balcony, chajja etc manually with broom etc all complete as directed inclusive of take away unservicable materials from MDL premises to Municiple dumping ground.	Sqm	1.00	32.58	
8.05	Providing reinforced by organic fibres and/or inorganic synthetic fibres cement <b>6 mm thick corrugated sheets</b> (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	Sqm	1.00	538.74	
8.06	Extra for providing and fixing <b>Wind Ties of 40 * 6mm</b> flat iron section	meter	1.00	196.45	
8.07	<b>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm</b> (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required <b>for temporary work.</b>	Sqm	1.00	741.87	
	<b>Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm</b> (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete <b>for temporary work.</b>				
8.08	Ridges plain (500 - 600mm)	meter	1.00	534.67	
8.09	Flashings/ Aprons.( Upto 600 mm)	meter	1.00	487.72	
8.10	North light curves	meter	1.00	548.48	
8.11	Barge board (Upto 300 mm)	meter	1.00	453.47	
8.12	Crimp curve	Sqm	1.00	498.92	
8.13	Gutter .(600 mm over all girth)	meter	1.00	1319.43	
8.14	<b>Aluminium Gutter</b> : Providing and fixing machine moulded profile aluminium gutter of	Kg	1.00	623.45	





	approved pattern, thickness & design, made out of machine cut aluminum sheet. The lap of gutter shall be 150mm for gutter having upto 1200mm width. The lap portion shall be provided with suitable mastic filler to prevent water leakages from lap. The internal side of the gutter shall be riveted or bolted in two parallel width with SS bolts/Aluminium rivets and <b>exposed lap shall be provided with FRP coating</b> covering 100mm more than lap width towards both end to prevent leakages from lap joint. The FRP coating shall be done on all joints and junction of downtake pipes gutter. All complete as per direction of Engineer-in-charge.				
8.15	Providing fixing <b>Mangalore tile roofing with class AA tiles</b> in cement mortar 1:4 on sloping slab including necessary scaffolding, curing, finishing, etc. complete.	Sqm	1.00	1274.08	
	Providing and fixing colour coated Zinalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets . The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center- to-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/ One Square Metre)				
8.16	Roof Sheet	Sqm	1.00	1403.28	
8.17	600 mm girth (Surface Width) for Ridge/ Flashing/Apron/ North light curve/Barge board	Rmt	1.00	898.43	
8.18	900 mm girth (Surface Width) for Ridge/ Flashing/Apron/ North light curve/Barge board	Rmt	1.00	1277.67	
8.19	Providing and fixing <b>UPVC Roof made up of 3 layers roofing material of thickness 2mm</b> having width of 1130 mm and of required Length having Tensile strength not less than 330 Kilogram/cm <sup>2</sup> , including fastening with self drilling screw having washers made of stainless steel etc. complete	Sqm	1.00	1906.93	



8.20	Providing and fixing <b>PVC coloured Ridge tiles over UPVC roofing</b> where required having size 113cm x 41cm for ridge including fastening with self drilling screw having washers made of stainless steel etc. complete.	Sqm	1.00	1656.90	
8.21	Providing and fixing <b>self supporting steel roofing system</b> for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance +/- 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a <b>span of 15.30 meter</b> having arch rise as 3.06 meter, arch length 17.75 meter. The base material made up of imported galvalume steel complying to ASTM A792 having <b>base metal thickness of 0.80 millimeter</b> ( tolerace + / - 0.02 millimeter ) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 7' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing, testing and cleaning etc. complete.	Sqm	1.00	2708.46	
8.22	Providing and fixing <b>self supporting steel roofing system</b> for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance + / - 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a <b>span of 21.30 meter</b> having arch rise as 4.26 meter, arch length 25.13 meter. The base material made up of imported galvalume steel complying to ASTM A792 having <b>base metal thickness of 1.00 millimeter</b> ( tolerace + / - 0.02 millimeter ) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.	Sqm	1.00	2819.72	
8.23	Providing and fixing <b>self supporting steel roofing system</b> for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance + / - 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking	Sqm	1.00	2981.22	





	panels shall be pressed to close the seam forming water tight joints for a <b>span of 25.00 meter</b> having arch rise as 5.00 meter, arch length 29.00 meter The base material made up of imported galvalume steel complying to ASTM A792 having <b>base metal thickness of 1.20 millimeter</b> (tolerance + / - 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.				
8.24	Providing and fixing <b>self supporting steel roofing system</b> for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance + / - 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a <b>span of 28.75 meter</b> having arch rise as 5.75 meter, arch length 33.92 meter. The base material made up of imported galvalume steel complying to ASTM A792 having <b>base metal thickness of 1.40 millimeter</b> (tolerance + / - 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.	Sqm	1.00	3443.00	
8.25	Providing and fixing <b>self supporting steel roofing system</b> (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width ( tolerance + / - 2 millimeter ), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a <b>span of 32.5 meter</b> having arch rise as 6.5 meter, arch length 37.7 meter. The base material made up of imported galvalume steel complying to ASTM A792 having <b>base metal thickness of 1.60 mm</b> ( tolerance + / - 0.02 millimeter ) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex	Sqm	1.00	4032.78	



	standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.				
8.26	Design, fabrication & Installation of <b>FRP LOUVERS</b> with 30 mm clear space including aluminium EURO support system for accommodating FRP louvers consist of aluminium angle brackets of 50 x 50 x 5 mm with EPDM gaskets & anchor fastners (HILTY make) etc. Louvers as design including 60 mm x 30 mm section UPVC FINS & . as per Architect/Engineer incharge.	Sqm	1.00	3092.79	
8.27	Providing & fixing factory made Fibreglass Reinforced plastics ( <b>F.R.P.</b> ) <b>chajja 4 mm thick</b> of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP chajja should be manufactured using unsaturated Polyester resin as per IS:6746, duly reinforced with fibre glass chopped stand mat (CSM) as per IS:11551 complete with protective gel coat U/V coating on top for complete resistance from the extreme of temperature, weather and sunlight.	Sqm	1.00	2481.89	
8.28	Providing and Fixing of <b>2mm thick Polycarbonate Translucent Sheets</b> for roof, North Light and Cladding etc. to match with existing profile of galvalume roofing sheets including lapping, transportation, labour, wastage complete with hardwares, etc. all complete. (Only Open area covered by sheeting will be measured considering overlapping of minimum 150mm.	Sqm	1.00	1330.62	
8.29	<b>Turbo ventilator</b> : Providing and fixing 24 inch dia Wind Driven Turbo Ventilator system in Aluminium along with FRP Base Plate. Approved make & type with all fittings, nuts, bolts, etc. including FRP Base sheet of approved colour, shape and staging, etc as per instructions of EIC. Profile of FRP Base should match the profile of corrugated sheets.	Nos	1.00	8481.68	
8.30	Providing and fixing in position uPVC/SWR ( <b>Soil/Waste/Rain</b> ) <b>pipe of type-B 110 mm dia.</b> in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if	Rmt	1.00	452.44	



	any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).				
8.31	Providing and fixing in position uPVC/SWR <b>(Soil/Waste/Rain) pipe of type-B 160 mm dia.</b> in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).	Rmt	1.00	1072.10	
8.32	Dismantling carefully existing broken damaged A.C. sheets from roof, side cladding, gable end etc, <b>providing and fixing new A.C. sheets</b> 6mm thick of Everest / Charminar make or equivalent with end overlap of 150 mm and side overlap of one and half corrugation at the same place with necessary 8mm dia G.1 1 or 1 hooks, bolts and nut, bitumen washers in any height including necessary scaffolding with all lifts and leads, etc, all complete and measurement as per laid area after completion of work. Note: Rates should be inclusive of take away damage AC Sheets from MDL premises to Municipal dumping ground.	Sqm	1.00	560.29	
8.33	Providing and erecting <b>bamboo's double scaffolding</b> of required height and width and strength by sides of building for platform to enable workmen to carry out repairs to building at any level from ground to any floor height as directed including removing the same and clearing the site. ( The rate for this item will be applicable for work beyond 10 m height for building / shed / workshop since all the items of work are inclusive of scaffolding upto 10 M height)	Sqm	1.00	64.75	
8.34	Providing and installing Nylon net for protection from Birds entry in Entrance Lobby.	Sqm	1.00	244.80	
<b>9</b>	<b>PLUMBING &amp; SANITARY FITTINGS</b>				
9.01	<b>Removing carefully existing flushing tank flushing cistern</b> of any capacity, of any materials including brackets and disconnecting and reconnecting existing fittings & disposing the dismantled materials outside the MDL premises etc. all complete as directed.	Nos	1.00	112.54	
9.02	<b>Removing carefully existing Wash basin</b> with frame including disconnecting the sanitary and water supply connections, removing the same carefully and taking away the dismantled items outside MDL premises etc. all complete	Nos	1.00	93.41	



9.03	<b>Removing carefully existing Urinals</b> with frame including disconnecting the sanitary and water supply connections, removing the same carefully and taking away the same outside MDL premises etc all complete	Nos	1.00	114.85	
9.04	<b>Dismantling carefully existing WC pan (Indian or European)</b> including disconnecting the sanitary and water supply connections, removing and breaking flooring and bed concrete around pans and removing pan carefully and disposal of material outside MDL premises etc. all complete as directed.	Nos	1.00	247.64	
9.05	<b>Dismantling existing G.I. Pipes</b> of any size with all fittings and stacking at site complete.	Rmt	1.00	24.00	
	Dismantling existing C.I or AC or PVC pipeline along with fittings & clamps including carting away debris etc. complete as directed.				
9.06	75 to 80mm dia pipe line	Mtrs.	1.00	76.03	
9.07	100mm dia pipe line	Mtrs.	1.00	78.34	
9.08	150mm dia pipe line	Mtrs.	1.00	80.60	
	Providing & fixing wash basin with 15 mm C.P brass pillar taps, C.I. brackets 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required :				
9.09	White Vitreous China Flat back wash basin size 550 x 400mm with single 15 mm CP brass pillar trap	Nos	1.00	1887.40	
9.10	White Vitreous China Flat back wash basin size 450 x 300mm with single 15 mm CP brass pillar trap	Nos	1.00	1520.20	
9.11	<b>75 mm dia. UPVC pipe</b> :Providing and fixing in position uPVC/SWR (Soil/Waste/Rain) pipe of type-B, including PVC plugs, 75 mm dia. bends, all necessary fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories should be of same brand. No separate payment shall be made for fittings and accessories).	Mtrs.	1.00	296.17	
	Providing and fixing drainage Soil waste and vent pipes of approved make with ISI mark including fittings like Y bend, plain bend, collar etc jointing with spun yarn, cement slurry and cement mortar 1:2 in pipes. Also includes Providing & fixing M.S holder-bat clamps embedded in and including cement concrete blocks 10x10x10cm of 1:2:4, cutting holes in wall and making good the wall etc including scaffolding; all complete.				
9.12	100 mm dia. Sand C.I pipe.(NECO or equivalent ) as per IS:1729	Mtrs.	1.00	1720.37	
9.13	75 mm dia. Sand C.I pipe. (NECO or equivalent) as per IS:1729	Mtrs.	1.00	1579.81	
	<b>Indian type W.C. pan</b> - Providing and fixing water closet squatting pan with 100mm sand				



	cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
9.14	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Each	1.00	8535.24	
9.15	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests.	Each	1.00	15803.85	
	<b>European type W.C. pan-</b> Providing and fixing white vitreous china pedestal type water closet with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
9.16	W.C. pan with ISI marked white solid plastic seat and lid.	Each	1.00	8750.53	
9.17	W.C. pan with ISI marked black solid plastic seat and lid.	Each	1.00	8750.53	
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
9.18	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	Each	1.00	4216.25	
9.19	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	1.00	3597.70	
9.20	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.	Each	1.00	3808.62	
9.21	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	Each	1.00	3190.06	
9.22	White Vitreous China Angle back wash basin size 600x480 mm with single 15 mm C.P. brass pillar tap	Each	1.00	3302.62	
9.23	White Vitreous China Angle back wash basin size 400x400 mm with single 15 mm C.P. brass pillar tap.	Each	1.00	3097.17	
9.24	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap.	Each	1.00	3207.54	
9.25	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap.	Each	1.00	5420.59	
9.26	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap.	Each	1.00	5626.04	
9.27	White Vitreous China of 'Hindustan & Parryware' make or equivalent under counter type Oval wash basin of size 550 x 480mm with CI brackets suitable for mounting below granite counter including waste fitting with CP brass	Nos	1.00	9958.14	



	bottle trap, angle valve with CP connection etc as specified. Oval Wash Basin Model No.10051 OR consider equivalent make				
9.28	Providing & fixing <b>C.I. Manhole covers with frames / rings</b> for R.C.C., underground water storage tanks/Over Head tank, sizes of covers. (600mm dia.) NOTE:-should be provided with locking arrangement	Nos	1.00	6156.08	
9.29	Providing and fixing in position <b>Stainless steel kitchen sink</b> without drain board A ISI 304 (18/8) as per IS 13983 <b>610mm x 510mm</b> depth 200mm with cast iron brackets and stainless steel plug 40mm , PVC semi rigid waste pipe 40 mm dia., waste coupling weighing not less than 60gm, including painting of fittings and brackets, including cutting and making good the walls, making inlet and outlet connections etc. complete as directed.	Each	1.00	5202.50	
9.30	Providing and fixing in position <b>Stainless steel kitchen sink</b> with drain board A ISI 304 (18/8) as per IS 13983 <b>510mm x1040 mm</b> depth 200mm with cast iron brackets and stainless steel plug 40mm , PVC semi rigid waste pipe 40 mm dia., waste coupling weighing not less than 60gm, including painting of fittings and brackets, including cutting and making good the walls, making inlet and outlet connections etc. complete as directed.	Each	1.00	7430.38	
	Providing and fixing <b>white glazed vitreous china flat back urinal of half stall</b> of size 580mm * 380mm * 350mm with white PVC automatic flushing cistern Parryware/ Hindware or equivalent including with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in CP brass) with waste fittings, C.I trap with outlet grating and other couplings in CP brass, brackets including painting of fittings and cutting & making good the walls and floors wherever required etc. complete as directed. All fittings to have ISI mark.				
9.31	Single half stall urinal with 5 litres PVC automatic flushing cistern	Nos	1.00	12124.42	
9.32	Range of three half stall urinals with 10 litres PVC automatic flushing cistern	Nos	1.00	22154.49	
9.33	Range of four half stall urinals with 10 litres PVC automatic flushing cistern	Nos	1.00	26082.75	
9.34	Providing & fixing <b>10 litre white PVC flushing cistern</b> of conforming to IS:7231 and approved make, with a pair of brackets complete with necessary fittings such as PVC connector, inlet pipe connection up to IWC / EWC, union & couplings for connections with inlet, outlet & overflow pipe <u>with 25mm diameter mosquito proof coupling of approved municipal design etc.</u> including making holes in walls & reinstating the same in etc. complete as directed.	Nos	1.00	1251.74	





	Providing & fixing <b>'C' class exposed G.I water supply pipeline</b> of zenith / GST / TATA with ISI mark with necessary G.I fittings such as elbows, tees, bends, unions, reducers etc. and clamps including cutting and making good the wall, testing etc., complete as directed.				
9.35	15mm dia. Nominal bore	Rm	1.00	368.00	
9.36	20mm dia. Nominal bore	Rm	1.00	439.21	
9.37	25mm dia. Nominal bore	Rm	1.00	554.11	
9.38	32mm dia. Nominal bore	Rm	1.00	669.91	
9.39	40mm dia. Nominal bore	Rm	1.00	815.44	
9.40	50mm dia. Nominal bore	Rm	1.00	1052.92	
	Providing & fixing <b>'C' class concealed G.I water supply pipeline</b> of zenith / GST / TATA with ISI mark with necessary painting with anti corrosive bitumastic paint, cutting chases and making good the wall, fittings fixed with G.I clamps including testing and necessary pipe fittings such as elbows, tees, bends, unions, reducers etc., complete as directed.				
9.41	15mm dia. Nominal bore	Rm	1.00	582.98	
9.42	20mm dia. Nominal bore	Rm	1.00	637.97	
9.43	Providing & fixing 15mm dia nominal bore <b>C.P brass bibcock</b> of approved quality conforming to IS:8931etc. complete as directed.	Nos	1.00	509.01	
9.44	Providing & fixing 15mm dia nominal bore <b>C.P brass stopcock</b> (concealed) of approved quality conforming to IS:8931	Nos	1.00	673.38	
9.45	Providing & fixing 15mm dia nominal bore <b>C.P brass stopcock</b> with ISI mark.	Nos	1.00	354.79	
9.46	Providing and Fixing 15mm nominal bore <b>C.P. brass long nose bib cock</b> of approved quality confirming to IS standards and weighing not less than 810 gms	Nos	1.00	824.28	
9.47	Providing and fixing 15mm nominal bore <b>C.P. brass long body bib cock</b> of approved quality confirming to IS standards and weighing not less than 690 gms	Nos	1.00	802.44	
9.48	Providing and fixing 15mm nominal bore <b>C.P. brass angle valve</b> for basin mixer and geyser points of approved quality conforming to IS:8931	Nos	1.00	576.81	
9.49	Providing and fixing to the inlet mouth of rain water pipe <b>cast iron grating</b> 15 cm diameter and weighing not less than 440 grams.	Each	1.00	54.94	
9.50	Providing and fixing <b>mirror rectangular shape 1500 x 450 mm size</b> (outer dimentions) with plastic moulded frame of approved make and shade with 6mm thick hard board backing etc. all complete	No	1.00	2102.13	
9.51	Providing and fixing <b>600*450mm bevelled edge mirror</b> of superior glass (of approved quality) of make Modifloat/Saint Gobin or equivalent with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete	No	1.00	1614.97	
9.52	Providing and fixing <b>toilet paper holder</b> in CP brass etc complete as directed.	Nos	1.00	807.21	



	Providing & fixing <b>PVC waste pipe for sink/wash basin</b> including PVC waste fittings complete.				
9.53	32mm dia semi rigid pipe	Rm	1.00	104.35	
9.54	40mm dia semi rigid pipe	Rm	1.00	117.21	
9.55	32mm dia flexible pipe	Rm	1.00	120.07	
9.56	40mm dia flexible pipe	Rm	1.00	120.07	
	Providing and laying <b>nominal dia A grade glazed stoneware pipes class SP-1</b> with joints made with tarred gasket of hemp or spun yarn, tightly packed and neatly finished with rich cement grout of cement and sand (1:1) perfectly airtight including making drainage connections to Inspection chambers wherever necessary, testing of joints, curing etc complete as specified and as directed.				
9.57	150 mm	Rm	1.00	698.84	
9.58	200 mm	Rm	1.00	974.58	
9.59	250 mm	Rm	1.00	1512.17	
9.60	300 mm	Rm	1.00	2073.16	
	Providing and laying <b>non pressure NP2 class (light duty) RCC pipes</b> with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc complete.				
9.61	150 mm dia RCC pipe	Rm	1.00	558.88	
9.62	300 mm dia RCC pipe	Rm	1.00	998.64	
9.63	450 mm dia RCC pipe	Rm	1.00	1628.02	
9.64	600mm dia RCC pipe	Rm	1.00	2253.19	
	Providing and fixing <b>Gun metal gate valve</b> with C.I. Wheel of approved quality (screwed end)				
9.65	20 mm nominal bore	Nos	1.00	542.31	
9.66	25 mm nominal bore	Nos	1.00	625.12	
9.67	40mm nominal bore	Nos	1.00	829.70	
9.68	50mm nominal bore	No	1.00	1031.13	
	Providing and fixing <b>gun metal non- return valve</b> of approved quality (screwed end) :				
9.69	40 mm nominal bore Horizontal	No	1.00	956.76	
9.70	40 mm nominal bore vertical	No	1.00	1139.65	
9.71	50 mm nominal bore Horizontal	No	1.00	1377.18	
9.72	50 mm nominal bore vertical	No	1.00	1451.45	
9.73	<b>Making connection of drain or sewer line</b> for pipes 100 to 250 mm diameter with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 ( 1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc.	Each	1.00	813.99	
9.74	Providing and fixing <b>square mouth S.W. Gully trap class SP-1 of 100 x 100 mm size P type</b> , grade "A" complete with C.I. grating brick masonry chamber,made of Sewer bricks conforming to IS: 4885 with water tight C.I. cover with frame of 300 x 300 mm size (inside)	Nos	1.00	2696.91	



	the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design.				
	<b>Internal work - Exposed on wall:</b> Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
9.75	15 mm nominal outer dia pipes	Rm	1.00	288.05	
9.76	20 mm nominal outer dia pipes	Rm	1.00	336.46	
9.77	25 mm nominal outer dia pipes	Rm	1.00	403.30	
9.78	32 mm nominal outer dia pipes	Rm	1.00	521.01	
9.79	40 mm nominal outer dia pipes	Rm	1.00	706.02	
9.80	50 mm nominal outer dia pipes	Rm	1.00	938.23	
	<b>Concealed work, including cutting chases and making good the walls etc.:</b> Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
9.81	15 mm nominal outer dia pipes	Rm	1.00	499.97	
9.82	20 mm nominal outer dia pipes	Rm	1.00	539.95	
9.83	25 mm nominal outer dia pipes	Rm	1.00	629.99	
9.84	32 mm nominal outer dia pipes	Rm	1.00	742.53	
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain and brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer-in-charge.				
9.85	15 mm nominal dia pipes	Rm	1.00	245.77	
9.86	20 mm nominal dia pipes	Rm	1.00	275.50	
9.87	25 mm nominal dia pipes	Rm	1.00	356.95	
9.88	32 mm nominal dia pipes	Rm	1.00	440.51	
9.89	40 mm nominal dia pipes	Rm	1.00	565.51	
9.90	50 mm nominal dia pipes	Rm	1.00	797.72	
9.91	65 mm nominal dia pipes	Rm	1.00	1681.71	
9.92	80 mm nominal dia pipes	Rm	1.00	2175.80	
9.93	100 mm nominal dia pipes	Rm	1.00	3285.97	
9.94	150 mm nominal dia pipes	Rm	1.00	6852.47	
9.95	Providing and fixing <b>PTMT Bottle Trap for Wash Basin and Sink:</b> Bottle Trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the center of the waste coupling 77mm breadth with 25mm	Nos	1.00	368.70	



	minimum water seal, weighing not less than 260gms.				
9.96	Providing and fixing <b>PTMT Bottle Trap for Wash Basin and Sink:</b> Bottle Trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the center of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.	Nos	1.00	377.29	
9.97	Providing and fixing <b>PTMT Waste Coupling</b> for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Each	1.00	115.80	
9.98	Providing and fixing <b>PTMT Waste Coupling</b> for wash basin and sink, of approved quality and colour Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	1.00	122.93	
9.99	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn Bib Cock With Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1125/-	Each	1.00	1436.30	
9.100	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn 2 Way Bib Cock With Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1388/-	Each	1.00	1763.84	
9.101	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn Bib Cock long body With Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1393/-	Each	1.00	1770.20	
9.102	Providing & fixing 15mm dia nominal bore C.P brass Quarter turn Pillar Cock of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1165/-	Each	1.00	1479.76	
9.103	Providing & fixing 15mm dia nominal bore C.P brass Quarter turn Pillar Tap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1473/-	Each	1.00	1862.42	
9.104	Providing & fixing 15mm dia nominal bore C.P brass Quarter turn Swan Neck Tap with Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.2107/-	Each	1.00	2665.90	
9.105	Providing & fixing 15mm dia nominal bore C.P brass Quarter turn Sink cock with Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.1975/-	Each	1.00	2486.76	
9.106	Providing & fixing 15mm dia nominal bore Quarter Turn Wall Mixer Non-Telephonic Shower Arrangement with Connecting Legs & Wall Flange of approved make and quality	Each	1.00	4771.06	



	conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.3745/-				
9.107	Providing & fixing 15mm dia nominal bore C.P brass Quarter turn Angular Stop Cock with wall flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.860/-	Each	1.00	1096.04	
9.108	Providing & fixing 20mm dia nominal bore C.P brass Quarter turn Angular Stop Cock of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.863/-	Each	1.00	1104.52	
9.109	Providing & fixing 20mm/15mm dia nominal bore C.P brass Quarter turn Concealed Stop Cock including body of Concealed Stop Cock with Protection Cap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit Stop Cock+ Protection Cap : Rs. 1755/-	Each	1.00	2220.70	
9.110	Providing & fixing 20mm dia nominal bore C.P brass Quarter turn Concealed Stop Cock including body of Concealed Stop Cock with Protection Cap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit Stop Cock+ Protection Cap : Rs. 2056/-	Each	1.00	2594.88	
9.111	Providing & fixing 15mm dia nominal bore C.P brass Quarter turn Flush Cock of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.2160/-	Each	1.00	2712.54	
9.112	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Bib Cock With Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1168/-	Each	1.00	1490.36	
9.113	Providing & fixing 15mm dia nominal bore C.P brass Full Turn 2 Way Bib Cock With Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1857/-	Each	1.00	2346.84	
9.114	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Bib Cock long body With Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.1422/-	Each	1.00	1813.66	
9.115	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Pillar Cock of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1240/-	Each	1.00	1573.04	
9.116	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Pillar Tap of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1532/-	Each	1.00	1936.62	
9.117	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Swan Neck Tap of approved make andmake and quality conforming to	Each	1.00	2813.24	





	IS:8931etc. complete as directed. Basic Rate per unit: Rs.2237/-				
9.118	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Sink Pillar cock of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.1978/-	Each	1.00	2491.00	
9.119	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Wall Mixer Non-Telephonic Shower Arrangement with Connecting Legs & Wall Flange of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 4382/-	Each	1.00	5562.88	
9.120	Providing & fixing 20mm/15mm dia nominal bore C.P brass Full Turn Angular Stop Cock with Wall Flange of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.720/-	Each	1.00	922.20	
9.121	Providing & fixing 20mm/15mm dia nominal bore C.P brass full turn Concealed Stop Cock including body of Concealed Stop Cock with Protection Cap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit Stop Cock + Protection Cock: Rs. 1706/-	Each	1.00	2159.22	
9.122	Providing & fixing 20mm dia nominal bore C.P brass full turn Concealed Stop Cock including body of Concealed Stop Cock with Protection Cap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit Stop Cock+ Protection Cock Rs. 2052/-	Each	1.00	2587.46	
9.123	Providing & fixing 15mm dia nominal bore C.P brass Pillar Cock with Auto Closing System of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.2727/-	Each	1.00	3421.68	
9.124	Providing & fixing 15mm dia nominal bore C.P brass Bib Cock Auto Closing System with Built-in Control Cock With Wall Flange of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.2787/-	Each	1.00	3503.30	
9.125	Providing & fixing 15mm dia nominal bore C.P brass Pressmatic Wall Mounted Basin Tap (Auto Closing) with Wall Flange (Square) of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 5398/-	Each	1.00	6750.08	
9.126	Providing & fixing 15mm dia nominal bore C.P brass Concealed Urinal Flush Valve (Auto Closing) With Wall Flange of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 3163/-	Each	1.00	3970.76	
9.127	Providing & fixing 15mm dia nominal bore C.P Pressmatic Urinal Valve Auto Closing System with Built-in Control Cock & Wall Flange of approved make andmake and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 3170/-	Each	1.00	3980.30	





9.128	Providing & fixing 15mm dia nominal bore C.P brass Spout operated Pillar Cock of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.2070/-	Each	1.00	2605.48	
9.129	Providing & fixing 15mm dia nominal bore C.P brass Spout operated Bib Cock of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.1853/-	Each	1.00	2342.60	
9.130	Providing & fixing 15mm dia nominal bore C.P brass Spout operated Sink Pillar Cock of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.2538/-	Each	1.00	3187.42	
9.131	Providing & fixing 15mm dia nominal bore C.P brass Hand Shower (Health Faucet) with 1 Meter Long Easy Flex Tube in Chrome Finish and Wall Hook with N.R.V (Back Flow Preventer) of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1303/-	Each	1.00	1641.94	
9.132	Providing & fixing 15mm dia nominal bore C.P brass Overhead Shower 100mm Round Shape Single Flow (Face Plate Stainless Steel & ABS Body in Chrome finish) with Rubit Cleaning System +Shower Arm 20mm dia. & 300mm Long Round Shape with 90° Bend for Wall Mounted Showers with Stainless Steel Flange of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.2272/-	Each	1.00	2847.16	
9.133	Providing & fixing 15mm dia nominal bore C.P brass Overhead Shower 120X120mm Square Shape Single Flow (Face Plate Stainless Steel & ABS Body in Chrome finish) with Rubit Cleaning System + Shower Arm 400X25X25mm Square Shape for Wall Mounted Showers with Flange of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.4095/-	Each	1.00	5118.74	
9.134	Providing & fixing 15mm dia nominal bore C.P brass Hand Shower 100mm Round Shape Single Flow (ABS Body Chrome Plated with Gray Face Plate) with Rubit Cleaning System + Flexible Tube 8mm dia. & 1.5M Long with Nuts of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 2728/-	Each	1.00	3414.26	
9.135	Providing & fixing Flexible Tube 8mm dia. & 1.5M Long of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 950/-	Each	1.00	1203.10	
9.136	Providing & fixing 15mm dia nominal bore C.P brass Prime Hand Shower (Health Faucet) with 8mm Dia, 1 Meter Long Flexible Tube & Wall Hook with N.R.V (Back Flow Preventer) of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 2075/-	Each	1.00	2602.30	



9.137	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn Prime Bib Cock (Straight Line Model) With Wall Flange of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1463/-	Each	1.00	1857.12	
9.138	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn Prime 2 Way Bib Cock With Wall Flange of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1942/-	Each	1.00	2452.84	
9.139	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Prime Bib Cock long body With Wall Flange of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1640/-	Each	1.00	2077.60	
9.140	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn Prime Pillar Cock of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1560/-	Each	1.00	1970.54	
9.141	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn Prime Pillar Tap of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1582/-	Each	1.00	1998.10	
9.142	Providing & fixing 15mm dia nominal bore C.P brass Quarter Turn Prime Sink Pillar cock - wall mounted of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 2133/-	Each	1.00	2683.92	
9.143	Providing & fixing 15mm dia nominal bore C.P brass Full Turn Prime Angular Stop Cock of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.1162/-	Each	1.00	1471.28	
9.144	Providing & fixing 15mm dia nominal bore C.P brass full turn Prime Concealed Stop Cock including body of Concealed Stop Cock with Protection Cap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit Stop Cock+ Protection Cock: Rs. 1836/-	Each	1.00	2321.40	
9.145	Providing & fixing 20mm dia nominal bore C.P brass full turn Prime Concealed Stop Cock including body of Concealed Stop Cock with Protection Cap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit Stop Cock+ Protection Cock: Rs. 2179/-	Each	1.00	2747.52	
9.146	Providing & fixing Prime Flush Valve Dual Flow 32mm of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 4042/-	Each	1.00	5053.02	
9.147	Providing & fixing Prime Wall Mixer 3-in-1 System with Provision for both Hand Shower and Overhead Shower Complete with 115mm Long Bend Pipe, Connecting Legs & Wall Flange	Each	1.00	7620.34	



	('A,ithout Hand & Overhead Shower) of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.6037/-				
9.148	Providing & fixing Prime Wall Mixer with Connector for Hand Shower arrangement with Connecting Legs, Wall Flanges & Wall Bracket for Hand Shower of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.5637/-	Each	1.00	7123.20	
9.149	Providing & fixing Sensor Faucet for Wash Basin in Square Shape Sensor Pillar Cock with Base Flange (Battery Operated) of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 11885/-	Each	1.00	14805.02	
9.150	Providing & fixing Sensor Flushing Valve for Urinal with Complete Kit (Battery Operated) (Suitable For Urinal of approved make and quality etc. complete as directed. Basic Rate per unit: Rs. 11925/-	Each	1.00	14854.84	
9.151	Providing & fixing SENSOR LIQUID SOAP DISPENSER (Battery Operated) of approved make and quality etc. complete as directed. Basic Rate per unit: Rs. 5490/-	Each	1.00	6852.90	
9.152	Providing & fixing Bottle Trap 32mm Size with 250mm & 190mm Long Wall Connection Pipes & Wall Flange of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1950/-	Each	1.00	2491.00	
9.153	Providing & fixing Bottle Trap 32mm Size with 300mm & 190mm Long Wall Connection Pipes & Wall Flange of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 1855/-	Each	1.00	2373.34	
9.154	Providing & fixing WASTE COUPLING POP UP 32mm Size Half Thread With 80mm Height of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.913/-	Each	1.00	1202.04	
9.155	Providing & fixing Waste coupling 32mm Size Half Thread with 80mm height of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs. 487/-	Each	1.00	672.04	
9.156	Providing & fixing Waste coupling 32mm Size full Thread with 80mm height of approved make and make and quality conforming to IS:8931etc. complete as directed. Basic Rate per unit: Rs.480/-	Each	1.00	663.56	
9.157	Providing & fixing Grab Bar (Stainless Steel) 600mm Long of approved make and make and quality conforming to IS:8931 etc. Including brass screws & wooden/pvc plug complete as directed. Basic Rate per unit: Rs. 1750/-	Each	1.00	2463.44	
9.158	Providing & fixing Rack Bolt (Stainless Steel) Size: 16mm dia. of approved make and quality for sanitary fittings including required	Each	1.00	1392.84	



	rectification and making good the same etc. complete as directed. Basic Rate per unit: Rs.995/-				
9.159	Providing & fixing Rack Bolt (Stainless Steel) Size: 12mm dia. of approved make and quality for sanitary fittings including required rectification and making good the same etc. complete as directed. Basic Rate per unit: Rs. 525/-	Each	1.00	807.72	
9.160	Providing & fixing Prime Wall Bracket for Hand Shower, 35mm dia. & 100mm Long Round Shape of approved make and quality etc. including brass screws & wooden/pvc plug. complete as directed. Basic Rate per unit: Rs. 550/-	Each	1.00	972.02	
9.161	Providing & fixing twin Robe Hook of approved make and quality etc. including brass screws & wooden/pvc plug. complete as directed. Basic Rate per unit: Rs.1245/-	Each	1.00	1835.92	
9.162	Providing & fixing Toilet paper Holder Recessed Type (Stainless Steel) of approved make and quality etc. including brass screws & wooden/pvc plug. complete as directed. Basic Rate per unit: Rs. 1095/-	Each	1.00	1649.36	
9.163	Providing & fixing Towel Rack with Lower Hanger (Stainless Steel) of approved make and quality etc. including brass screws & wooden/pvc plug. complete as directed. Basic Rate per unit: Rs.3805/-	Each	1.00	5130.40	
9.164	Providing & fixing Towel Ring Round (Stainless Steel) of approved make and quality etc. complete as directed. Basic Rate per unit: Rs. 1185/-	Each	1.00	1540.18	
9.165	Providing & fixing Single Towel Rail 600mm Long, Stainless Steel of approved make and quality etc. including brass screws & wooden/pvc plug. complete as directed. Basic Rate per unit: Rs. 1203/-	Each	1.00	1895.28	
9.166	Providing & fixing Prime Soap Dispenser with Glass bottle of approved make and make and quality with concealed fitting arrangement etc. complete as directed. Basic Rate per unit: Rs. 1475/-	Each	1.00	1856.06	
9.167	Providing & fixing Prime Soap Dish Holder of approved make and make and quality with concealed fitting arrangement etc. complete as directed. Basic Rate per unit: Rs. 848/-	Each	1.00	1076.96	
9.169	Providing and fixing back to wall European type white glazed earthenware water closet pan, size 360X557X410 with UPVC soft close slim seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall, 100mm dia PVC plug bend inlet pipe all fittings, cutting & making good walls, floors etc. Also includes 10 liter Wall Hung PVC Dual flush Cistern with fittings pipe stop tap brackets for fixing cistern 32 mm dia. UPVC flush pipe with fittings and clamps ,20 mm dia. UPVC overflow pipe ,mosquito proof couplings G.I. chain and	Each	1.00	19330.16	



	pulley,with water Jet and fitting including cutting and making good to the walls and floors testing etc. complete.( Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge). Basic Rate of Water closet: Rs.12350/-				
9.168	Providing and fixing back to wall European type white glazed earthenware water closet pan, size 360X557X410 with UPVC soft close slim seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall, 100mm dia PVC plug bend inlet pipe all fittings,cutting & making good walls,floors etc. complete.( Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Water closet: Rs.12350/-	Each	1.00	19280.34	
9.170	Providing and fixing Wall Mounted European type white glazed earthenware water closet pan, size 365X520X365 with UPVC soft close slim seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall, 100mm dia PVC plug bend inlet pipe all fittings,cutting & making good walls,floors etc. complete.( Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Wall Mounted Water closet: Rs.14100/-	Each	1.00	21456.52	
9.171	Providing and fixing floor mounted, <b>white vitreous china single piece, double traps syphonic water closet</b> of approved brand/make, shape, size and pattern including <b>integrated white vitreous china cistern</b> of capacity 10 litre with dual flushing system, with UPVC soft close slim seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall, 100mm dia PVC plug bend inlet pipe all fittings,cutting & making good walls & floors including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.( Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Single Piece Water Closet: Rs.21500/-	Each	1.00	30416.70	
9.172	Providing and fixing Orissa type white glazed earthenware water closet pan of size 445mmX590mmX 300mm with approved make Slim wall hung cistern with installation kit including S or P trap with PVC soil and vent pipe upto outside face of the wall 1:2:4 brick bat lime concrete bedding without flushing tank and its accessories etc.complete. ( Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Orissa type Water Closet: Rs.2300/-	Each	1.00	7651.08	





9.173	Providing and fixing Thin Rim Table Top Wash Basin In White Matt, Size: 530x420x140 mm, Shape - Rectangular/ square/round with rubber plugs and brass chain of approved make having necessary pipe connection up to the outside face of the wall, cutting counter top, making good the damage, etc complete and as directed by Engineer in charge. (Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Thin Rim Table Top Wash Basin: Rs. 7450/-	Each	1.00	9620.56	
9.174	Providing and fixing wall hung white wash basin of size 590x490x185mm of approved make with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, necessary pipe connection up to the outside face of the wall, cutting and making good the walls wherever required and as directed by Engineer in charge. (Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Wall hung Wash Basin: Rs. 3650/-	Each	1.00	5216.26	
9.175	Providing and fixing Rectangular/Oval type Under-counter wash hand basin of size 560x430x195 mm including 32 mm C.P. brass waste of standard pattern, cutting counter top, necessary pipe connection up to the outside face of the wall, cutting and making good the damages, etc. all complete or as directed by engg incharge. (Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Under-counter Wash Basin: Rs. 3100/-	Each	1.00	5300.00	
9.176	Providing and fixing wall hung white wash basin of size 315x450x175 of approved make with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, necessary pipe connection up to the outside face of the wall, cutting and making good the walls wherever required and as directed by Engineer in charge. (Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate of Wall hung Wash Basin: Rs. 3925/-	Each	1.00	5558.64	
9.177	Providing & fixing 10 litre white Wall Hung PVC Dual flushing cistern of conforming to IS:7231 of approved make with ISI mark , a pair of brackets with necessary fittings such as PVC connector with gasket, inlet pipe connection up to IWC / EWC, union, G.I clamps and C.P. brass coupling for connections with inlet, outlet & overflow pipe with 25mm diameter mosquito proof coupling of approved municipal design etc. including painting of fittings and cutting and making good the walls and floors etc. wherever	Each	1.00	2597.00	





	required, etc. complete and as directed.(Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.)				
9.178	Providing and fixing 10 litre Single Piece Slim Concealed Cistern Body with Installations Kit & "S or P Type" drain pipe connection set for Wall Hung/ pedestal WC ,square chrome finish control plates of approved make union, G.I clamps and C.P. brass coupling for connections with inlet, outlet & overflow pipe with 25mm diameter mosquito proof coupling of approved municipal design etc.Painting of fittings and cutting and making good the walls and floors (wherever required) and testing etc. complete and as directed.(Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.)	Each	1.00	8715.32	
9.179	Providing and fixing 10 litre Single Piece Slim Concealed Cistern Body including floor mounting frame with Installations Kit & "S or P Type" drain pipe connection set for Wall Hung/ pedestal WC ,square chrome finish control plates of approved make union, G.I clamps and C.P. brass coupling for connections with inlet, outlet & overflow pipe with 25mm diameter mosquito proof coupling of approved municipal design etc. including flat back urinals with Spreader Hole & fixing Accessories, Size 355x340x535mm. Painting of fittings and cutting and making good the walls and floors (wherever required) and testing etc. complete and as directed.(Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.) Basic Rate 10ltr cistern Rs. 8188/-, Control Plate: Rs. 1238/-, flat back Urinals: Rs. 4200/-	Each	1.00	20990.12	
9.180	Providing & fixing <b>100mm dia half round white glazed earthenware urinal channel</b> laid in 1:5:10 cement concrete including bends, giving necessary slope, pointing with white cement etc. complete as directed.	meter	1.00	534.75	
9.181	Providing and fixing <b>100mm diameter CP brass shower rose</b> with 15 or 20mm inlet complete as directed.	Nos	1.00	631.65	
9.182	Providing & fixing <b>4" dia. PVC Nahani trap</b> with PVC jali including making holes in walls / beams etc. and cement grouting (1:1) making good the damaged portion finished in C.M(1:3), curing complete as directed.	Nos	1.00	644.81	
10	<b>WATERPROOFING &amp; FLOORING</b>				
10.01	<b>Removing existing water proofing treatment</b> from the toilet block including IPS/brickbat coba etc. without damages to structure, levelling and cleaning the surface for providing new specified water proofing treatment & carting away the same outside MDL to Municipal dumping yard complete as directed by Engineer in charge	Cum	1.00	2746.50	



10.02	<b>Removal of existing bituminous membrane</b> Waterproofing and removal of primer coat under existing membrane. Exposed surface shall be further cleaned to remove any loose particles, dust etc. before further treatment. The debris material to be stacked at Ground as directed by EIC.	Sqm	1.00	137.63	
	Dismantling tile/ Marble/ granite work in floors and wall laid in cement mortar including stacking material at designated place within MDL premises before disposal as directed by Engineer-incharge. Also include disposal of dismantled or waste materials by manual, mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-incharge, for all leads including all lifts involved. etc. complete.				
10.03	For thickness of tile/ Marble/ granite 6mm to 25 mm	Sqm	1.00	89.44	
10.04	For thickness of tile/ Marble/ granite above 25 mm and up to 40 mm	Sqm	1.00	129.57	
	Providing and Fixing Stone slab table rubbed, edges rounded and polished of size 75 X 50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) as per direction of Engineer -In Charge and finished smooth.				
10.05	White Agaria Marble Stone (Basic Rate/sqm = Rs. 1873.40	Sqm	1.00	3515.72	
10.06	Granite Stone of Approved shade (Basic Rate/sqm = Rs. 2248.08	Sqm	1.00	4069.53	
10.07	"Providing & laying <b>water proofing treatment to the toilet flooring</b> by giving injections with cement solution mixed with waterproofing compound into the floor slab so as to make it consistent, homogenous and impervious against leakage, seepage etc. The sunk portion shall then be covered with necessary <b>brick bat waterproof coba in C.M.(1:5) of 100mm average</b> thickness in required slope mixed with approved waterproofing compound as per manufacturer's specifications finished rough with jointless waterproof cement plaster in C.M.(1:3) 12mm to 15mm thk in all positions extending the water proofing upto 300 mm height, curing, leakage test after impounding the water for 7 days, etc. complete with 5 years guarantee etc.(Measurement in plan area )	Sqm	1.00	1852.88	
10.08	<b>Extra for providing additional thickness of brick bats</b> over average thickness of 100mm in 1:5 cement mortar mixed with waterproofing compound of approved make as per	Cum	1.00	7346.46	



	manufacturers specification as directed. Note:Items of work to be used				
10.09	Providing and fixing <b>1st quality ceramic glazed wall tiles</b> conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	1.00	1273.48	
10.10	Providing and laying <b>Ceramic glazed floor tiles</b> of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	1.00	1101.33	
	Providing & laying polished <b>vittrified floor tiles in different sizes</b> ( thickness to be specified by the manufacturer ) with water absorption less than 0.08% and confirming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand ) jointing with grey cement slurry @3.3kg/sqm including grouting the joints with white cement and matching pigments etc. complete				
10.11	Size of Tiles 60cm X 60 cm	Sqm	1.00	1560.23	
10.12	Size of Tiles 80cm X 80 cm	Sqm	1.00	1893.73	
10.13	Size of Tiles 100 cm X 100 cm	Sqm	1.00	2098.77	
	Providing and fixing <b>Anti-skid vittrified tiles</b> for flooring of size 600 X 600mm of approved make, colour and size 10 mm thick, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) Bedding on flooring , cladding fixed with tile adhesive or neat cement paste including sealing the joints with approved quality white cement mixed with approved colour to match the tiles colour or approved grouting materials including, curing, cleaning etc. complete as directed.				
10.14	Size of Tiles 60cm X 60 cm	Sqm	1.00	1471.24	
10.15	Size of Tiles 80cm X 80 cm	Sqm	1.00	1731.92	
10.16	Size of Tiles 120 cm X 120 cm	Sqm	1.00	2850.88	
10.17	Providing and fixing <b>Composite Marble/ Agglomerate</b> for floor, sill, jambs, skirting toilet partition set in 20mm thick cement mortar 1:4 bedding/back coat plaster ,white cement paste floating, joints finished neatly with matching	Sqm	1.00	5428.08	



	coloured cement, curing, hand polishing, cleaning etc. complete, as directed. (Basic cost of composite marble/ Agglomerate Rs. 2961/- per sq.mt.)				
10.18	Providing and laying machine cut, mirror polished, <b>Italian Marble stone flooring, staircase tread &amp; risers, skirting</b> with groove laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing, SS Strip etc. all complete as specified and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. (Basic rate of Italian marble of Rs. 7238/- Sq.mt.)	Sqm	1.00	9634.78	
10.19	Providing and fixing machine cut, mirror / eggshell polished, <b>Italian Marble stone work for wall lining (veneer work)</b> including dado, skirting, risers of steps, doors & windows frame etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. Note: Items of work to be used. (Basic rate of Italian marble of Rs. 7238/- Sq.mt.)	Sqm	1.00	11115.08	
10.20	Providing & fixing approved <b>18mm thick IPE deck wooden flooring</b> , skirting with cladding & transition profile of approved make with 25 X 25 X 1.5mm thick aluminium framework @ 1200mm C/C etc. complete as per manufacture's specifications (Basic cost of IPE deck wooden flooring Rs. 3948/- per Sqmt)	Sqm	1.00	5675.24	
10.21	Providing and laying Machine cut machine polish <b>Kota stone slab flooring</b> 25mm to 30mm thick over average 20mm thick base laid over of C.M 1:4 (1 cement : 4 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing etc. complete as directed.	Sqm	1.00	1900.40	
10.22	Deduct for not using 20mm thick cement mortar 1 : 4 ( 1 cement : 4 coarse sand ) bedding in laying of floor tiles & jointing with grey cement @ 3.3 Kg/Sqm	Sqm	1.00	853.81	
10.23	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified	sqm	1.00	756.54	



	quick set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness				
	<b>Stone tile work for wall lining upto 10 m height</b> with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. <b>8mm thick</b> (mirror polished and machine cut edge)				
10.24	Granite stone of any colour and shade (Basic cost Rs. 815/- per Sqm)	Sqm	1.00	3108.05	
10.25	Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble (Basic cost Rs. 475/- per Sqm)	Sqm	1.00	2778.52	
	Providing and Fixing <b>Granite of 18mm thick</b> gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, vanity counters, window sills, facias and similar location of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand ) with joints treated with white cement, mixed with matching pigments, epoxy touch ups, including rubbing, curing, moulding and polished to edge to give high gloss finish etc. complete at all levels as directed by Engineer-In-Charge Granite of any colour and shade				
10.26	Area of slab up to 0.5 Sqm (Basic rate of Granite/sqm = Rs 2213	Sqm	1.00	5437.12	
10.27	Area of slab over 0.5 Sqm (Basic rate of Granite/sqm = Rs 2497	Sqm	1.00	5158.71	
	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-incharge.				
10.28	Marble	Meter	1.00	299.90	
10.29	Granite	Meter	1.00	513.18	
10.30	Extra for fixing <b>marble / granite in facia / drops of width upto 150mm</b> with epoxy resin based Araldite or equivalent adhesive including cleaning etc. complete.	Rm	1.00	571.03	
10.31	Extra for providing opening of required size & shape for washbasins / sink in platform, vanity counters and similar locations in marble / granite stone work including necessary holes for pillar taps etc. including moulding rubbing & polishing of cut edges etc. complete.	Each	1.00	982.97	
10.32	<b>Providing and laying integral cement based water proofing</b> treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water	Sqm	1.00	1691.95	



	proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope up 1 in 120 and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.				
10.33	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarses and : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : for <b>150 mm dia. S.W. pipe.</b>	meter	1.00	746.34	
10.34	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design : for <b>200 mm dia. S.W. pipe.</b>	meter	1.00	877.31	
	Providing & fixing 10mm thick <b>acid or alkali resistant tiles</b> of approved make and colour using acid and/or alkali resistant mortar bedding and joints filled with acid and/or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer-in Charge.				
10.35	In flooring on a bed 10 mm thick mortar 1 : 4 ( 1 acid proof cement : 4 coarse sand ) Acid and alkali resistant tile	Sqm	1.00	1745.73	
10.36	In dado/skirting on 12 mm thick mortar 1 : 4 ( 1 acid proof cement : 4 coarse sand ) Acid and alkali resistant tile	Sqm	1.00	1893.12	
10.37	Supplying and Fixing <b>C.I. Cover 300 X 300 mm without frame for gully Trap</b> ( Standard pattern ) the weight of cover to be not less than 4.5 Kg.	Each	1.00	790.43	
10.38	Providing and fixing machine cut, mirror / eggshell polished , <b>Marble stone work for wall lining</b> (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 oarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-incharge. a. <b>18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark</b>	Sqm	1.00	10460.24	





	<b>Emperadore etc. (Basic rate of material/sqm= Rs 3712/-</b>				
10.39	Providing and laying machine cut, mirror polished <b>Marble stone flooring</b> , in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm, including pointing with white cement slurry admixed with pigment to match the marble shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge. <b>a. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. (Basic rate of material/sqm = Rs 3712/-</b>	Sqm	1.00	6957.57	
10.40	<b>Providing and laying Vitrified tiles in different sizes</b> (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in <b>skirting, riser of steps, dado</b> over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. <b>Size of Tiles 600x 600 mm</b> (Basic rate of tile/sqm = Rs. 594 /-	Sqm	1.00	1630.13	
10.41	<b>Providing and laying Vitrified tiles</b> in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in <b>skirting, riser of steps, dado laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness</b> , including grouting of joints. <b>Size of Tiles 600x 600 mm</b> (Basic rate of tile = Rs. 594 /-	Sqm	1.00	1915.52	
	Providing and applying integral crystalline slurry of hydrophilic in nature for <b>waterproofing treatment to the RCC structures</b> like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the				



	requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage				
10.42	For vertical surface two coats @ 0.70 kg per sqm per coat.	Sqm	1.00	474.96	
10.43	For horizontal surface one coat @1.10 kg per sqm.	Sqm	1.00	364.38	
10.44	<b>Providing &amp; laying water proof bedding to the bath &amp; WC flooring</b> 25mm thick in C.M.(1:3) using approved water proofing compound in specified proportion as per manufacturer's specification per bag of cement including leveling, curing etc. complete as directed.	Sqm	1.00	514.42	
10.45	<b>P/A waterproofing in Wc and bath including brick bat coba</b> in all position including providing alnd laying 12mm bedding in cement mortar 1:3 on concrete slab with waterproffing compound @ 1Kg/per bag cement laying brick bat coba of required thickness in CM 1:5 with waterproofing compound 1 kg / bag cement grouting and finishing the top layer with 20 mm thick brick bedding in cement mortar 1 :3 with waterproofing compound 1 kg/bag of cement and testing the treated portion for 48 hoursby pond test and covering 10 years guarantee on requisite stamp paper including all leads, lifts and curing etc completed.	Cu.m	1.00	7411.18	
10.46	Providing <b>25 mm to 30 mm thick partition</b> of polished black kadappa stone slab of approved quality including giving required size and shape etc. Fixing in cement mortar 1:3 curing and cement etc. complete. Both side polish	Sqm	1.00	1386.53	
10.47	Providing leak proof treatment by Injection grouting method to old floor without removing tiles of W.C., bath, with cement sand proportion of 1:1.5 and waterproofing compound at 2 Kilogram/bag of cement mixed in 35 liters of water including drilling holes in required position grouting with above mixed solution and ceiling etc. complete.	One Litre	1.00	47.85	
10.48	Providing & fixing <b>35mm thick fibre glass reinforced polyester door shutter</b> as per IS14856 without ventilator including chromium plated fixtures and fastening with chromium plated handles on both sides etc. complete as directed.	Sqm	1.00	4181.12	
10.49	<b>Providing waterproofing treatment to terrace slab</b> and laying flooring of broken marble mosaic tiles of plain finish of required size laid on 38mm to 50 mm thick 1:2 Cement	Sqm	1.00	1704.86	



	Mortar bedding after grouting with neat cement 100 mm thick (average) bedding of concrete made of 2 parts of broken brick bats to 1 part of cement mortar laid to proper gradient 1:100 and 150 mm half round vata in 1:2:4 c.c. with necessary plaster in 1:3 C.M. at the junction with walls and the required number of expansion joint as per the directions etc. complete. The rate also includes watering, tamping, curing and cleaning the top of all dust, loose materials, stains, and machine polished etc. complete as directed. (Horizontal measurements clear) Note : The layer of 100 mm thick average brick bat coba shall be laid in required slopes in proportion of two parts of broken bricks bats and one part of cement mortar 1:5 on slab. Over the brick bat coba, 30 mm to 38 mm thick lime mortar in proportion of 1 part of lime to 2 parts of sand shall be laid as bedding for fixing broken marble mosaic				
10.50	Providing and fixing 1.5 mm thick <b>polyvinyl Chloride flooring</b> including leveling the base with white cement including pasting with appropriate material , cleaning the surface etc complete.	Sqm	1.00	766.84	
10.51	Providing and fixing green marble of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing / moulding the sharp edges wherever necessary, curing, etc. complete	Sqm	1.00	2831.68	
	Providing and laying <b>Indian patent stone flooring 40 mm thick</b> with M-15 grade concrete using 6 mm to 20 mm metal over bedding laid in proper grade and slope or over the slab, including compaction, marking lines, to give appearance of tiles as per the approved pattern, finishing smooth with cement slurry as mentioned below, curing etc. complete.				
10.52	In plain natural/ grey colours.	Sqm	1.00	530.04	
10.53	In red colours	Sqm	1.00	603.26	
10.54	Providing and <b>sealing with Polysulphide sealant in joint</b> of size 25mm x 25mm so as to make the joint completely water tight etc. complete as directed.	meter	1.00	1633.83	
10.55	Providing and fixing machine cut, machine polished <b>Kota stone slab 25 mm thick for treads and risers of steps and staircases</b> with rounded nosing and grooves for the treads, laid on bedding of cement mortar 1:4 including curing, cleaning, polishing etc. complete.	Sq.m	1.00	1880.61	
10.56	Supply & Fixing of <b>Full Body Vitrified Steptiles Ready to install Treads and Risers 12 mm thick</b> , required width and required finish in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning etc complete.	Sq.m	1.00	2930.97	
10.57	Supply & Fixing of <b>Rock/ Stone Finished Full Body Steptiles Stone Vitrified Tiles with thick</b>	Sq.m	1.00	3170.24	



	<b>Bullnose for Ready to install Steps and Risers 12 mm</b> thick and required width wide in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete. with prior approval of concerned EIC.				
10.58	Injection Grouting of Super <b>low Viscosity Epoxy Grout System</b> : Pressure grouting Super low viscosity epoxy resin using injector till nozzles refused to accept the grout under pressure of 3-4 Kg/cm <sup>2</sup> . Including fixing the nozzles in the structural elements & subsequently cutting /removal of nozzles and sealing of holes with putty Monitor the leakages through other nozzles while grouting and seal them as per the item and as directed.	Cum	1.00	566655.56	
10.59	Injection Grouting High Performance Polymer Cement Grout: Providing & injecting high performance non shrink, Anti washout Polymer Cement Grout per pack of 225gm for 50kg bag of cement as per manufacturer's specifications into honeycombing area / porous concrete with suitable pump at pressure of 2.0 Kg/Cm <sup>2</sup> and subsequently cutting /removal of nozzles and sealing of holes with grout etc., complete. This does not include the rate of cement bag. Cost of nozzle shall be paid saperately.	Per 50KG Bag Of Cement	1.00	546.43	
10.60	Providing, drilling and fixing <b>Nipples for pressure injection</b> grouting of polymer cement grout etc. complete	Nos	1.00	318.22	
10.61	Filling voids/honeycomb with high pressure injection grouting of Polymer Cement Grout (10% of Polymer by Weight of Cement)	Kg	1.00	261.99	
10.62	Providing and laying <b>integral cement based treatment for water proofing on horizontal surface</b> at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : i) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer. -Using rough kota stone of size 550 mm x 850 mm	Sqm	1.00	1617.43	



10.63	Providing and laying <b>integral cement based treatment for water proofing on the vertical surface</b> by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :-Using rough Kota stone of size 550 mm x 850 mm	Sqm	1.00	2068.78	
10.64	Providing and laying <b>four courses water proofing treatment with bitumen felt</b> over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or peasized gravel spread at 6 cubic diameter per square metre including preparation of surface but excluding grading complete with Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	Sqm	1.00	478.67	
10.65	Providing and laying <b>six courses water proofing treatment with bitumen felt</b> over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade I (fibre base self finished bitumen felt) six and final courses of stone grit 6 mm and down size or pea sized gravel spread at 6cu.dm per sqm including preparation of surface, excluding grading, compete	Sqm	1.00	1.09	
10.66	Providing and laying <b>APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane</b> , black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in	Sqm	1.00	1.09	



	longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto - 2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane				
10.67	Providing and laying <b>damp-proof course 40mm thick</b> with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) including water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Sqm	1.00	1.09	
10.68	<b>Waterproofing the terrace slabs</b> with average 100 mm thick, <b>brick bats laid</b> in cement mortar bed 1:4 filled with mortar 1:4 of total thickness 100 mm, laid to slope (1:100) with vata 15 cm, at the junction of walls and IPS flooring (1:2:3) 40 mm thick with admixture, of approved water proofing compound, as per manufacturers specification laid after grouting the slab, finishing curing etc. complete as directed and specified. (Horizontal measurement clear between walls will be paid for).	Sqm	1.00	1.09	
10.69	<b>Waterproofing the terrace slabs</b> with average 100 mm thick, brick bats laid in cement mortar bed 1:4 filled with mortar 1:4 of total thickness 100 mm, laid to slope (1:100) with vata 15 cm, at the junction of walls and <b>broken China mosaic flooring</b> with admixture, of approved water proofing compound, as per manufacturers specification laid after grouting the slab, finishing curing etc. complete as directed and specified. (Horizontal measurement clear between walls will be paid for).	Sqm	1.00	1.09	
10.70	Providing & Making <b>Waterproofing Treatment to the Chajja</b> by finishing top surface with 20 mm thick 1:2 C.M. plaster with addition of approved water proofing compound as per manufacturers specifications and neat cement finish, including drip moulding at edge, at bottom of chajja & cement vatta above chajja along the junction with wall etc complete, as directed by the Engineer-In-Charge.	Sqm	1.00	1.09	
10.71	<b>Waterproofing of the prepared surface using Dr. Fixit Hydroshield PUD Plus</b> (Or Equivalent) as per specification : 1. Prime the surface with Dr. Fixit Primeseal (Or Equivalent) diluted with water in the ratio 2:1 2. Apply 1st coat of Dr. Fixit Hydroshield PUD Plus (Or Equivalent) by brush or roller. Before the coat dries, embed fibre mesh into the coat and let the	Sqm	1.00	1322.28	





	coat dry completely 3. Apply 2nd coat of Dr. Fixit Hydroshield PUD Plus (Or Equivalent), perpendicular to 1st coat and let it dry. 4. If required apply 3rd coat to achieve DFT of 0.8-1.0mm, coverage of approx. 0.6 litre/M2/coat is required. Allow complete drying between coats with a minimum of 3 to 4 hours depending on weather conditions. Fiber mesh shall be completely covered with coating. work shall be done through certified applicator.				
10.72	Waterproofing with Application of <b>Dr. Fixit Raincoat (Or Equivalent) for wall</b> , as per manufacturer's specification for wall, as follows: 1. Priming of surface with Dr. Fixit Prime seal (Or Equivalent). Allow to dry for 2 to 3 hours or as per ambient conditions 2. Application of 2 coats of Dr. Fixit Raincoat (Or Equivalent), with a gap of 5 to 6 hours between both the coats 3. Final coat to be air cured for 7 days work shall be done through certified applicator.	Sqm	1.00	302.78	
10.73	<b>Waterproofing of all internal surfaces of the tank:</b> Provide & Apply Dr. Fixit Fastflex (Or Equivalent) on all surfaces as follows: 1. Ensure that surface is in SSD Condition 2. Apply first coat of Dr. Fixit Fastflex with brush or trowel 3. After first coat has completely dried(5to6 hours or as per ambient conditions), apply second coat of Dr. Fixit Fastflex and leave to air cure for 7 days Food grade certificate of applied material to be submitted. work shall be done through certified applicator.	Sqm	1.00	522.98	
10.74	<b>Epoxy Flooring :</b> Supply & Providing Epoxy Flooring with following procedure: 1) Drying the Surface .Removing complete moisture . 2) Fill uneven surfaces & holes with mortar 3) 0.5mm Primer Coat to Hard/fix the surface without loops. 4) 25 mm Radius Coving Mixture of Sand hardner & white cement. to avoid the deposits of the dust. 5) Base Coat 2mm for the smoothness & toughness. 6) Color / Pigment Coat (mixture of Resin, Hardner & PIJpaint). 7) Painting Coving as per design supplied by EIC for better durability of color shade. Note : Warranty of one year for wear & Tear, colour shade. 5 years warranty for bubble formation & sign of	Sqm	1.00	2549.02	



	peel off only. 5 % retention in terms of PBG/BG for 5 years warranty.				
10.75	<b>PVC Flooring:</b> Covering floor tiles and granite flooring with PVC sheet etc. complete as directed to the satisfaction of the site engineer-in-charge.	Square Meter	1.00	137.31	
11	<b>STEEL WORKS</b>				
11.01	<b>Dismantling of Steel works :</b> Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering cutting the steel in less than 1m length/width and shifting to designated MS scrap yard as directed by Engineer-in-charge	Kg	1.00	20.99	
11.02	<b>Clean off existing structural steel surface</b> contaminants like dirt or oil, remove metal oxides like rust or mill scale by sand blasting with coarse sand or shot blasting followed by and including cleaning with oil free air blast and providing & applying primer coat with ready mixed red oxide zinc chromate primer of approved brand & manufacturer, as per direction of Engineer in charge	sqm	1.00	451.76	
11.03	<b>Dismantling and stacking within MDL premises, fencing posts or struts including all earth work</b> and dismantling of concrete etc. in base of T' or 'L' iron or pipe and carting away debris outside MDL.	Each	1.00	231.91	
11.04	<b>Dismantling barbed wire or flexible wire, concertina coil, rope in fencing</b> including making rolls and stacking within MDL premises.	Kg	1.00	36.96	
11.05	<b>Taking out C.I. cover with frame from R.C.C. top slab</b> of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials out of MDL as per direction of Engineer charge	Each	1.00	408.52	
11.06	<b>Dismantling of road gully chamber</b> of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials out of MDL including refilling the excavated gap.	Each	1.00	962.93	
11.07	Providing and fixing <b>structural steel work in single section</b> including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	kg	1.00	117.86	
11.08	<b>Providing and fixing Structural steel work</b> riveted, bolted or welded in <b>built up sections, trusses and framed work</b> including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer complete as directed by engineer.	Kg	1.00	134.28	
11.09	Providing and fixing <b>steel work welded in built up sections/ framed work</b> including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using	Kg	1.00	124.14	



	structural steel etc as required - <b>in stringers, treads, landings etc of staircase, including use of chequered plates wherever required etc all complete.</b>				
11.10	Providing and fixing <b>steel work welded in built up sections/</b> framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc as required <b>in gratings, grating frames, guard bar, ladders, railings, brackets,gutter, gates.</b>	kg	1.00	173.35	
11.11	<b>Steel work in built up tubular ( round, square or rectangular hollow tubes etc.)</b> trusses, column etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes	Kg	1.00	207.25	
11.12	Supplying and fixing in position <b>rolling shutters</b> of guage & of approved make, made of required size MS laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength confirming to IS:4454 and MS top cover of required thickness for rolling shutters 80*1.25mm M.S.laths with 1.25mm thick top cover including providing and fixing o mechanical device chain and crank operation for operating rolling shutters	Sqm	1.00	4956.08	
11.13	Providing and fixing <b>ball bearing for rolling shutters</b>	Each	1.00	494.50	
11.14	Providing and fixing <b>MS fan clamp</b> type I or II of 16mm dia MS bar bent to shape with hooked ends in RCC slabs, beams during laying including painting the exposed portion of loop, all as per standard design complete	Each	1.00	226.99	
11.15	Providing and fixing <b>Foundation bolts</b> including nuts and washers complete	kg	1.00	160.05	
11.16	Providing and fixing <b>1mm thick MS sheet sliding shutters with frame</b> and diagonal braces of 40*40*6mm angle iron, 3mm MS gusset plates at the junction and corners 25mm dia pulley, 40*40*6mm angle and T Code No.- iron guide at the top and bottom respectively including applying a priming coat of approved steel primer) complete as directed	Sqm	1.00	6594.85	
	Providing and fixing 15cm wide, 45cm <b>overall semi circular plain GS sheet gutter</b> with iron brackets 40x3mm size, including bending, cutting, welding, hoisting, fixing in position with bolts, nuts and washers etc. and making necessary connections with rain water pipes complete --				



11.17	0.8mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	meter	1.00	1034.14	
11.18	0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	meter	1.00	948.17	
11.19	Providing and fixing in position <b>collapsible steel shutters</b> with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles including applying a priming coat of approved steel primer.	Sqm	1.00	11489.51	
11.20	Providing and fixing <b>stainless steel ( Grade 304) railing</b> made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	1.00	775.77	
11.21	Providing and fixing <b>GI barbed wire fencing</b> with angle iron posts placed at required distance embeded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires. of barbed wire weighing 9.38 kg per 100m (minimum) between the two posts fitted and fixed with GI staples, turn buckles etc complete (Cost of posts, struts,earthwork and concrete work to be paid seperatly) ( Payment will be made per meter cost of total length of barbed wire used)	meter	1.00	22.20	
11.22	Providing and fixing <b>concertina coil fencing with punched tape</b> concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	meter	1.00	377.44	
11.23	Supplying and fabricating <b>stubs for handrails</b> made up of 10thk. Plate, tubes & square pipes including cutting,welding, grinding etc. and	Kg	1.00	124.14	



	applying a priming coat of approved steel primer etc. complete.				
11.24	Providing 40x5 mm flat <b>iron hold fast 40 cm long</b> including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Each	1.00	229.85	
11.25	Providing and fixing <b>10 x 120 mm carbon steel galvanised ( minimum coating 5 micron) dash fastener of 10 mm dia</b> double threaded 6.8 grade (yield strength 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame, concrete/ masonry, etc. as per direction of Engineer-in-charge.	Each	1.00	171.70	
11.26	Providing and fixing <b>10 x 160 mm carbon steel galvanised ( minimum coating 5 micron) dash fastener of 10 mm dia</b> double threaded 6.8 grade (yield strength 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.	Each	1.00	225.48	
11.27	Supplying & fabricating, including cutting, grinding etc., <b>hand rail of M. S. tubes (medium)</b> any dia & nosing angles (50 x 50 x 5 mm) for stairs including welding of handrail to embedded stubs, anchorage bars to nosing angles, smooth grinding , priming coat of approved steel primer etc. complete.	Kg	1.00	197.66	
11.28	Providing and fixing <b>1mm thick M.S. sheet door with frame</b> of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.		1.00		
11.29	Using M.S. angles 40x40x6 mm for diagonal braces	Sqm	1.00	5829.67	
11.3	Using flats 30x6mm for diagonal braces and central cross piece	Sqm	1.00	5588.02	
11.31	<b>Dowel Bars:</b> Providing and fixing in position TMT FE 500, 32 mm dia dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint including sleeves as directed etc. complete.	Nos	1.00	441.47	
11.32	Removing and refixing of existing grill. Front area shall be consider for payment	Sqm	1.00	422.00	
11.33	Providing & fixing <b>MS ornamental grill</b> of approved design weighing from 15 to 20 Kg / Sq.M. With necessary hold fast , complete with two coats of synthetic enamel paint of approved make & quality over a coat of	Sqm	1.00	1516.78	



	approved anti corrosive yellow zinc chromate metal primer.etc all complete.				
12	<b>RENEWAL OF LAND TIES ON SLIPWAYS</b>				
12.01	Demolishing concrete manually/ by mechanical means and disposal of material to municipal dumping ground as per direction of Engineer- in-charge.	Cum	1.00	1484.15	
12.02	<b>Extra for cutting reinforcement bars / structural members</b> in RCC and handing over unserviceable materials to MDL. (Payment shall be made on the cross-sectional area of RCC along which the reinforcement bars are cut)	Sqm	1.00	1152.21	
12.03	Providing & Fixing in position <b>light weight M.S. Angles, Tees, Plates, rolled steel beams, joits and stanchions</b> etc. including all labour and material in hoisting, fixing with bolts and nuts or by welding etc. complete including 3 coats of synthetic enamel paints ( Steel to <b>be supplied by MDL</b> )	Kg	1.00	75.38	
12.04	Providing & Fixing in position <b>light weight M.S. Angles, Tees, Plates, rolled steel beams, joits and stanchions</b> etc. including all labour and material in hoisting, fixing with bolts and nuts or by welding etc. complete including applying a priming coat of approved primer.	Kg	1.00	173.35	
12.05	<b>Surface Preparation:-</b> Chipping the surface by mechanical means & removal of all loose concrete, old membrane /coatings etc. Cleaning the exposed RCC surfaces and remove dust, loose particles etc & identify the existing leakage spots, damaged RCC patches, cracks & disposal of all debris outside MDL premises.	Sqm	1.00	114.46	
12.06	<b>Drilling and fixing injection Nozzles</b> in RCC members: Drilling holes: Drilling holes in structural members at the intervals as per recommendation of Manufactures and Engineer in charge. Cleaning of holes: Clean the holes by air blower prior to fixing nozzles. <b>Fixing of Nozzles:</b> Insert 12 mm dia., 75 mm long injection nozzles in cleaned holes with structural grade epoxy adhesive. <b>Cutting of Nozzles:</b> Cut the nozzles by cut of wheel after completion of grouting without damaging structural elements. Rate includes nozzle fixing with Epoxy Putty. Nozzles must be fixed before 24 hours of grouting. (The material should be of preferred makes like BASF, Mapei, Fosroc, Sunanda, Asian paints, master builders or equivalent make with similar properties)	Nos	1.00	197.27	
12.07	<b>Grouting with L.V.Epoxy Grouting material:-</b> Providing and injecting grout under pressure with Low Viscosity PU Hybrid Sealent, with a base coat of compitable self priming coat as per manufacturers recommendations by mechanical grouting pump till refusal, cutting & sealing the nozzles using PMM.	Kg	1.00	2313.64	





	Cracks/Joint filling as under: 1) Surface Preparation-: Opening of all visible cracks and joints in "V" groove, making depth clear up to 20 mm for joints and 5 mm for visible cracks. 2) Providing and applying self priming coat as a base coat of PU Hybrid sealent, self curing for 2-3 hrs. 3) Providing and filling crack with PU Hybrid sealent, self curing 24 hrs. (The material should be of preferred makes like BASF, Mapei, Fosroc, Sunanda, Asian paints, master builders or equivalent make with similar properties )				
12.08	<b>Angle file/ Vatta:</b> Proving and Making of anglefile/ Vatta Of 30mm X 30 mm, all around the periphery of the wall, bed blocks, pedestals, etc with polymer modified mortar	Rmt	1.00	275.20	
12.09	<b>Waterproofing Three Coats treatment:</b> Providing and Applying Water Proofing coating as per manufacturers specifications, as follows: <b>1.</b> Application of approved make primer dilute with water in the ratio 2:1 spreading at the rate of 8.0 – 10.0 / Sq.mt / Litre in the SSD condition. Allow to dry for 6 to 8 hours. <b>2.</b> First water Proofing coat of approved make is to be applied undiluted over the primed surface spreading at the rate of 0.70/litre/Sq.mt/Coat until all surface is covered. While the first coat is wet, Lay a 45 GSM Fibre glass mesh into the coat. The fibre mesh improves the performance of the coating, to take care of movement in cracks caused due to variations in temperature etc. Allow 6 to 8 hours to dry, depending on ambient conditions. <b>3.</b> After the first coat is dry, apply the second coat spreading at the rate of 0.70 litre / Sq.mt /Coat to achieve total dry film thickness of 850 to 1000 microns at forced coverage at the rate of 1.40 litre / Sq.mt in 2 coats, and wait for 6 to 8 hours to dry, depending on ambient conditions. <b>4.</b> After application of the third coat, leave to air cure for 7 days. etc. complete. <b>Note:</b> The work shall be carried out all complete as per specification and direction of the Engineer-in-charge. The waterproofing treatment shall carry guarantee for 05 years against any leakage	Sqm	1.00	1103.24	
12.10	<b>Hybrid Polyurea Waterproofing Membrane :</b> - a) Providing and applying primer coat of two component, liquid applied, high build epoxy primer using roller or brush. The primer is to applied with sprading rate of 4 - 5 sq.mtr/kg. Allow the primer to	Sqm	1.00	1670.69	



	<p>cure for 6-8 hrs before application of subsequent coats.</p> <p>b) Providing &amp; applying two coats of two component ,liquid applied ,high performance polyurea hybrid based elastomeric waterproofing membrane over primed surface. Apply 1st coat at the rate of 1.50Kg/Sqm &amp; second coat at the rate of 0.50kg/Sqm. No need to dilute with water. While the 2nd coat is reasonably hardened but still wet &amp; tacky on surface, sprinkle/broadcast sand over the surface to make it rough so as to provide mechanical key for the protective screed. The applied waterproofing coats should have following properties</p> <p>i) Elongation Index-min-500%</p> <p>ii) Tensile strength min.12 MPA</p> <p>iii) water permeability -zero,</p> <p>iv) Shore A Hardness: &gt;85</p> <p>v) Water Permibility- Zero.</p> <p>Vii) DFT - Min.1.5 mm</p> <p>Viii) High crack bridging capacity both static &amp; dynamic even at low temperature ,with respect to the relevant Standards /Codes. (The material should be of preferred makes like BASF, Mapei, Fosroc, Sunanda, Sika, Asian Paints, Master Builders or equivalent make with similar properties )</p>				
<b>13</b>	<b>REPAIRS TO DRY DOCKS</b>				
13.01	<b>Dismantling of old plaster/pointing, Raking out joints</b> and cleaning the surface for pointing including disposal of rubbish to municipal dumping ground outside MDL premises.	Sqm	1.00	70.62	
13.02	<b>Raised and cut pointing on stone work</b> with cement mortar 1:3 (1 cement : 3 fine sand)excluding scaffolding.	Sqm	1.00	704.11	
13.03	Providing <b>centering and shuttering</b> including strutting, propping etc. and removal of form for drains <b>on the dry dock floor/ wall</b>	Sqm	1.00	846.18	
13.04	Providing <b>centering and shuttering</b> including strutting, propping etc. and removal of form for stairs <b>on the side walls of dry dock</b> excluding scaffolding.	Sqm	1.00	768.29	
<b>14</b>	<b>PARTITION / FALSE CEILING</b>				
14.01	<b>Dismantling aluminium / wooden / Gypsum partitions</b> , doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in MDL Premises as directed. Also include disposal of dismantled or waste materials by manual, mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, for all leads including all lifts involved. etc. complete.	Sqm	1.00	72.32	
14.02	Providing and fixing flat pressed <b>3 layer medium density particle board</b> or graded particle board (Grade I) IS 3087 marked (Novapan, Ecoboard ro Bhutan Board etc) of	Sqm	1.00	1075.27	



	12mm thickness <u>in ceiling</u> with necessary nails etc complete (framework to be paid seperately)				
14.03	Providing and fixing false ceiling <b>12mm thick flame retardent face insulating board</b> including necessary nails etc complete (framework to be paid seperately)	Sqm	1.00	1126.44	
	Providing and fixing <b>anodised aluminium work</b> for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285, Anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners/dash fasteners of required dia. & size including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene felt/EPDM rubber etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle,. Aluminium snap beading for glazing/ panelling, CP brass/ stainless steel screws, all complete as per drawings and the directions of Engineer in Charge (Glazing and panelling, dash fasteners/rawl plugs/hold fasteners to be paid for seperately)				
14.04	<b>For fixed Portion</b>	kg	1.00	497.21	
14.05	<b>For shutters of doors, windows</b> and ventilators including providing and fixing hinges/ pivots/ handles/rollers and making provision for fixing of fittings wherever required including cost of EPDM rubber/neoprene gasked required (fittings shall be paid for separately), complete.	kg	1.00	601.21	
14.06	Providing and fixing <b>12mm thick prelaminated flat pressed three layer medium density (exterior grade) particle board</b> conforming to IS 12823 Grade I, Type II bonded with phenol formaldehyde synthetic resin, of approved brand and manufacture in panelling fixed in aluminium doors, windows shutters and partition frames with CP brass/ stainless steel screws etc complete as per drawings and directions of engineer in Charge :- Prelaminated particle board with decorative lamination on both sides	Sqm	1.00	1120.27	
14.07	Providing and fixing <b>12 mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows</b> (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.Marine plywood conforming to IS: 710	Sqm	1.00	2497.10	
14.08	Providing and fixing <b>12 mm thick panelling or panelling and glazing in panelled or panelled</b>	Sqm	1.00	2789.82	



	<b>and glazed shutters for doors, windows and clerestory windows</b> (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick. Fire retardant plywood conforming to IS: 5509				
14.09	Providing and fixing IS 3564 marked aluminium extruded section body tubular type <b>universal hydraulic door closer having brand logo with ISI</b> , of Hardwyn made (Eddy) or equivalent, with double speed adjustment with necessary accessories and screws etc complete	Each	1.00	987.44	
	Providing and fixing <b>glazing in wooden/aluminium door, window, ventilator shutters and partitions etc with PVC/ neoprene gasket</b> etc complete as per the architectural drawings and the directions of engineer in charge (Cost of aluminium snap beading shall be paid in basic item) Make of glass Saint Gobin, ASAI, Modi Float or equivalent				
14.10	With float glass panes of 4.0mm thickness (weight not less than 10.0 kg/ sqm)	Sqm	1.00	1181.93	
14.11	With float glass panes of 5.0mm thickness (weight not less than 12.50 kg/ sqm)	Sqm	1.00	1511.82	
14.12	With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm)	Sqm	1.00	1692.75	
	<b>Renewing glass panes</b> , with putty and nails wherever necessary including racking out the old putty:				
14.13	Float glass panes of thickness 4 mm (weight not less than 10.0 kg/ sqm)	Sqm	1.00	1095.41	
14.14	Float glass panes of thickness 5.0 mm (weight not less than 12.50 kg/ sqm)	Sqm	1.00	1422.33	
	<b>Renewing glass panes and refixing existing wooden fillets:</b>				
14.15	Float glass panes of thickness 4 mm (weight not less than 10kg/Sqm)	Sqm	1.00	1232.65	
14.16	Float glass panes of thickness 5 mm (weight not less than 12.5kg/Sqm)	Sqm	1.00	1559.52	
14.17	<b>Renewal of old putty of glass panes (length)</b>	meter	1.00	56.39	
14.18	<b>Refixing old glass panes with putty and nails</b>	Sqm	1.00	733.03	
	Providing and fixing <b>double action hydraulic floor spring</b> of approved brand and manufacture IS 6315 brand logo embossed on the body/plate with double Spring mechanism for doors including the cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece MS sheet outer box with slide plate etc complete as per the directions of Engineer in Charge (Basic Cost of Double Action Floor Spring with Stainless Steel cover plate is Rs.1873.40 and with brass cover plate is Rs. 1989.40)				
14.19	With Stainless steel cover plate min. 1.25 mm thick	Nos	1.00	2836.17	
14.20	With brass cover plate min. 1.25 mm thick	Nos	1.00	2979.04	



14.21	Providing and fixing <b>thermal insulation of ceiling</b> with Resin Bonded Fibre glass wool conforming to IS 8183 (Twiga Insul 1500/50mm or equivalent) density 24 kg/cum, 50mm thick, wrapped in 200 G Virgin polythene bags fixed to ceiling with metallic cleats (50*50*3mm) @ 60cm and wire mesh of 12.5mm x 24g wire and mesh, for ceiling or partitions	Sqm	1.00	706.12	
14.22	Providing and fixing <b>false ceiling at all height</b> including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section	Sqm	1.00	1361.72	
14.23	Anodising 15 microns on aluminium sections	Kg.	1.00	42.18	
14.24	Anodising 25 microns on aluminium sections	Kg.	1.00	51.22	
	Providing and Fixing <b>ISI marked flush door shutters</b> conforming to IS: 2202(Part-I) <u>decorative type</u> , core of block board construction with frame of 1st class hardwood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
14.25	35 mm thick including ISI marked stainless steel butt hinges with necessary screws, lipping with 2nd class teak wood battens 25mm minimum depth for exposed edges wherever required	Sqm	1.00	3953.37	
14.26	30 mm thick including ISI marked stainless steel butt hinges with necessary screws, lipping with 2nd class teak wood battens 25mm minimum depth for exposed edges wherever	Sqm	1.00	3646.14	
14.27	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary	Sqm	1.00	3295.92	



	screws, lipping with 2nd class teak wood battens 25mm minimum depth for exposed edges wherever				
	Providing and Fixing <b>ISI marked flush door shutters</b> conforming to IS: 2202(Part-I) non-decorative type, core of block board construction with frame of 1st class hardwood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
14.28	35 mm thick including ISI marked stainless steel butt hinges with necessary screws, lipping with 2nd class teak wood battens 25mm minimum depth for exposed edges wherever	Sqm	1.00	2867.46	
14.29	30 mm thick including ISI marked stainless steel butt hinges with necessary screws, lipping with 2nd class teak wood battens 25mm minimum depth for exposed edges wherever	Sqm	1.00	2645.94	
14.30	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges ISI marked with necessary screws, lipping with 2nd class teak wood battens 25mm minimum depth for exposed edges wherever	Sqm	1.00	2567.20	
14.31	Extra for providing and fixing ISI marked <b>flush doors with</b> decorative veneering on One side instead of non decorative ISI marked, including lipping for exposed edges wherever required for above item.	Sqm	1.00	480.09	
	Providing & Fixing decorative <b>high pressure laminated sheet</b> of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
14.32	1.5 mm thick	Sqm	1.00	1050.51	
14.33	1.0 mm thick	Sqm	1.00	901.21	
	Extra for providing <b>vision panel</b> not exceeding 0.1 Sq.M. in all type of flush doors ( cost of glass excluded ) ( Overall area of door shutter to be measured )				
14.34	Rectangular or Square	Sqm	1.00	200.02	
14.35	Circular	Sqm	1.00	207.20	
	Providing & fixing flat pressed 3 layer <b>particle board</b> medium density exterior grade ( grade-I ) or graded wood particle board IS : 3087 marked to frame, backing or studding with screws etc. complete ( <b>Frames, backing or studding to be paid seperately</b> )				
14.36	12 mm thick	Sqm	1.00	806.45	
14.37	18 mm thick	Sqm	1.00	1025.40	
14.38	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight <b>calcium silicate false ceiling tiles</b> of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced	Sq.m	1.00	2167.57	





	at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main "T" at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main "T" runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main "T", bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge				
	Providing and fixing in position. (as per I.S.1868 / 1982) <b>Aluminium sliding window of two tracks</b> with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 Kilogram/One Running Metre. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 Kilogram/One Running Metre. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 Kilogram/One Running Metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. And handle section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete.				
14.39	With colour Anodising without box	Sqm	1.00	6236.40	
14.40	With Powder Coating without box	Sqm	1.00	5818.88	



14.41	Providing and fixing in position (as per 1868 / 1982) <b>Aluminium sliding window of three tracks</b> with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 Kilogram/One Running Metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/One Running Metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete				
14.42	With colour Anodising without box	Sqm	1.00	6490.01	
14.43	With Powder Coating without box	Sqm	1.00	5943.30	
14.44	Providing and fixing Alluminium grill/jali of heavy type opening and 10 mm thick og approved quality and design to windows and ventilators including providing alluminium F parti weighing 0.22 Kg/Rmt etc complete as per approved drawing or as directed by Engineer In charge. -50 X 60 mm weighing 3.10 Kg/smt	Sqm	1.00	3087.69	
14.45	Providing and fixing <b>Powder coated aluminium louvered windows</b> consisting of aluminium frame 80x38mmx1.22mm box type, lever and locking arrangement with 5mm thick sheet glass louvers including filling the gap in joints of cladding and external/internal adjoining portion with plaster silicon jelly with gun etc complete	Sqm	1.00	4147.63	
14.46	Providing and fixing <b>shutter to wall cupboard</b> made from 19 mm thick teak wood particle board one face with approved colour laminated face 1.5mm thick bonded with phenol formaldehyde synthetic resin B.W.P grade including lipping, beading, iron oxidised fixtures and fastenings and oil painting primer one coat etc complete as directed (excluding cupboard frame)	Sqm	1.00	4232.57	
14.47	Providing and fixing G.I. crimped wire mesh of required openings of size 25 mm x25 mm or of any size with main and cross wires of 10 gauge approved type as per manufacture's specifications with necessary fittings including painting with one coat of red oxide zinc chromate primer and two coats of approved synthetic enamel paint etc. complete as	Sqm	1.00	1469.90	



	directed by Engineer In Charge.(Iron works will be paid separately.The clear visible area of the wire mesh exclusive overlap will be paid for).				
14.48	Providing and fixing at all height <b>false ceiling of 4 mm thick phenol bonded Bamboo Mat board</b> (595x595 mm) conforming to IS:13958-1994 including providing and fixing of frame work made of GI angle 25x25x0.4 mm thick all around suitably fixed to wall with the help of dash fastener and hanger frame (600x600 mm c/c) made GI slotted Tee having powder coating on bottom side (30x25x0.3 mm thick for main member & 25x25x0.3 mm for cross member) connected to ceiling with 2.64 mm GI wire and anchor fastener at every junction and also including cost of making openings for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed all complete as per direction of Engineer-in charge	Sq.m	1.00	4056.72	
	Providing and fixing at Bamboo Mat board conforming to IS:13958-1994 for partition to frame by bucking or studding with screws etc. complete (Frames, backing or studding to be paid separately)				
14.49	3 mm thickness	Sq.m	1.00	2954.84	
14.50	4 mm thickness	Sq.m	1.00	3346.54	
14.51	6 mm thickness	Sq.m	1.00	3940.77	
14.52	9 mm thickness	Sq.m	1.00	4928.21	
14.53	12 mm thickness	Sq.m	1.00	5625.99	
	Providing and fixing <b>mineral fibre board Armstrong or equivalent</b> false ceiling tiles at all heights of size 595X595 mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance $\geq 85\%$ , Thermal Conductivity $k = 0.052 - 0.057$ w/m K, Fire Performance as per (BS 476 pt - 6 & 7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32 mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8 mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion				



	of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge.				
14.54	With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.60)	Sq.m	1.00	2343.78	
14.55	With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7	Sq.m	1.00	2682.85	
14.56	With 16 mm thick beveled tegular mineral fibre Anti microbial false ceiling tile confirming to ISO 5 (class 100 ) specifications	Sq.m	1.00	2457.83	
14.57	Providing and fixing in position <b>4mm thk ACP</b> (shade as per approval). This system includes Aluminium Angle support, rivets, SS304 pan head/ csk screws (Kudan or equivalent make), Weather silicone (Dow corning/GE/ sikasil), Backer rod and other required Hardwares & Accessories. This cost inclusive of wastage, transportation packing, insurance, Breaking and handling charges and scaffolding. Payment will be made for actual fixed ACP.	Sq.m	1.00	4148.39	
14.58	<b>P &amp; F Float glass panes for Window, partition etc.5.0 mm thick glass panes</b> (weight not less than 12.50 kg/sqm). Etc. complete.	Sqm	1.00	2517.65	
14.59	<b>Providing &amp; fixing paneling of 12mm thick</b> BWP grade marine Plywood confirming to IS:710 on one side screwed to frame work with joints as shown or directed including Trims on all edges. (Basic Rate of plywood Rs. 917/-Sq.mt)	Sqm	1.00	907.87	
14.60	Providing & fixing <b>laminates of size not less than 1.5mm thk.</b> on one side fixed to plywood skin with glue having joints and grooves as shown or directed. (Basic rate of laminate- Rs. 706/- Sqmt	Sqm	1.00	949.00	
<b>15</b>	<b>ROAD WORKS</b>				
15.01	<b>Dismantling /cutting of flexible pavement</b> (bituminous courses) by mechanical means and disposal of dismantled material to municipal dumping ground, as per direction of Engineer-in-charge.	Cum	1.00	1051.57	
15.02	<b>Taking out existing CC interlocking paver blocks</b> from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the municipal dumping ground, outside MDL premises and stacking of serviceable material within MDL as per direction of Engineer-in-Charge	Sqm	1.00	195.22	
15.03	<b>Laying old cement concrete interlocking paver blocks</b> of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer- in- charge.	Sqm	1.00	404.71	
15.04	<b>Scarifying metalled (water-bound) road</b> surface including disposal of rubbish, lead	Sqm	1.00	33.45	



	upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity				
15.05	<b>WBM:</b> Providing & laying, spreading and compacting stone aggregate of Grade-1, 90-45 sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	Cum	1.00	3159.07	
15.06	<b>Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete</b> including preparation of the surface and rolling with road roller/hand roller.	Sqm	1.00	24.56	
15.07	<b>Cutting bituminous portion road</b> and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.	Cum	1.00	5054.20	
15.08	<b>Cutting Water bound macadam road</b> and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.	Cum	1.00	3091.48	
15.09	<b>Consolidation :-</b> Preparation and consolidation of sub grade with power road roller 8-12 T capacity Including excavating earth to an average of 22.5cm depth, dressing to camber and consolidating with road roller including making good the undulation etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50m as directed by engineer.	Sqm	1.00	219.86	
	<b>Tack coat</b> - Providing and applying <b>tack coat</b> using hot straight run bitumen of grade VG - 10 including heating bitumen, spraying the bitumen with hand/ mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specification, etc. all complete as directed				
15.10	on WBM /existing road @ 0.75 Kg/Sqm	Sqm	1.00	60.76	
15.11	on bituminous surface @0.50kg/sqm.	Sqm	1.00	48.41	
15.12	<b>Dense Bituminous Macadam</b> - Providing and laying dense graded Bituminous Macadam with 100 mm average compacted thickness( in two layer each of 50 mm thick) with bitumen of grade VG-30 @ 5.0% ( percentage by weight of total mix) and lime filler @ 2 % (percentage by weight of aggregate) with graded crushed stone aggregate, premixed with bituminous binder & filler in batch type hot mix plant and transporting the hot mix by tippers to paver and laying the mixed material with paver finisher fitted with electronic sensing device to the required level and grade and rolling with Smooth wheeled vibratory and tandem rollers 8-12Tonnes as per specification to achieve the	Cum	1.00	11080.33	



	desired density and compaction as directed by engineer.				
15.13	<b>Bituminous Concrete</b> - Providing and laying Bituminous concrete on prepared surface ( on Dense Bituminous Macadam) 50 mm average compacted thickness with bitumen of grade VG-30 @ 5.5 % ( percentage by weight of total mix) and lime filler @ 3 % (percentage by weight of aggregate) with stone aggregate for wearing course premixed with bituminous binder and filler prepared in batch type hot mix plant, transporting the hot mix by tippers to paver and laying the hot mix with paver finisher fitted with electronic sensing device to the required level and grade and rolling with Smooth wheeled vibratory and tandem rollers 8-12Tonnes as per specification to achieve the desired density and compaction as directed by engineer.	Cum	1.00	12179.10	
15.14	<b>2.5 cm premix carpet surfacing</b> with 3 cum of stone chippings 10 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen contents) complying with IS : 8887, using 96 kg per cum of chippings of road surface, including consolidation with road roller etc complete	Sqm	1.00	253.25	
	Providing and laying <b>bitumen mastic wearing course</b> (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification)				
15.15	25 mm thick	Sqm	1.00	857.88	
15.16	40 mm thick	Sqm	1.00	1371.46	
15.17	Providing and laying at or near ground level factory made <b>kerb stone</b> of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	1.00	10161.74	
15.18	Providing and fixing 15 cm dia at top, 20 cm at bottom and 90 cm high <b>precast reinforced cement concrete</b> 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) <b>boundary stone</b> as per standard	Each	1.00	856.12	





	design, including finishing smooth with cement mortar 1:3 (1 cement : 3 fine sand) (cost of excavation, refilling and concreting to be paid for separately).				
	<b>Painting road surface marking</b> with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade strips, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
15.19	New work (Two or more coats)	Sqm	1.00	290.16	
15.20	Old work (One or more coats)	Sqm	1.00	190.68	
15.21	Providing and applying <b>2.5 mm thick road marking strips</b> (retroreflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour ,T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	Sqm	1.00	751.06	
15.22	Providing <b>Retro-reflective regulatory sign board of size 900 mm dia meter</b> made out of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge . Letter, symbols, borders etc. will be as per IRC - 67 with required colour scheme on the boards and with the high intensity grade A. The aluminium sheet to be riveted to M.S. frame of angle iron of size 40x40x4 mm. The boards will be fixed to 1 No. 50x50 mm square post made of M.S. angle 50x50x4 mm, 4 m long welded to the frame with adequate anti-theft arrangement .Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminium sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.	Each	1.00	8189.93	
	Manufacturing, supplying and fixing <b>retro reflective sign boards</b> made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm				



	c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing, specification and direction of Engineer--in-charge.				
15.23	Mandatory/ Regulatory sign boards of 900 mm diameter with support length of 3750 mm	Each	1.00	7214.69	
15.24	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm	Each	1.00	5584.01	
15.25	Providing and laying in position <b>bitumen hot sealing compound</b> for expansion joints per cm depth per cm width Using grade 'A' sealing compound.	Rm	1.00	8.69	
15.26	Providing <b>expansion joints with 25mm thick</b> bituminous pad as per detailed drawings etc. complete	Sqm	1.00	891.16	
15.27	<b>Providing and filling joint sealing</b> compound with coarse sand and 6% bitumen by weight as per drawings and technical specifications etc. complete.	Sqm	1.00	37.74	
15.28	<b>Cement Concrete M 40 grade</b> : Providing and laying design mix cement concrete of M-40 grade, in roads work using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints ( 10 mm wide x 50 mm deep, 3 meter x 3 meter c/c) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in	Cum	1.00	10561.30	



	transit mixer. Minimum Cement content considered in M-40 is @ 360 kg/cum				
15.29	<b>Green cutting of construction &amp; dummy joints</b> of Concrete slab by mechanical means after 24 hrs and within 3 days of casting of bay/ slab as directed. Groove size 10mm wide and 50mm deep	Rmt	1.00	81.96	
15.30	Providing and maintaining <b>Barricading on the site 2.5 m high</b> by using MS Pipes or angle iron frame work of verticals at 3 m c/c and horizontals at 0.90 m c/c, Galvalume sheets, Struts, MS Clamps, etc. The verticals shall be embedded/ fixed to concrete pedestals below ground. The rate to include fabricating, cutting and fixing in position MS frame work, painting the same with two coats of approved anti rust paint, etc complete. Contractor to get structural design approved by the Engineer. Contractor shall remove and take away the barricading at his own cost on completion of the works.	Rmt	1.00	3052.36	
15.31	Providing and maintaining <b>Barricading on the site 5 m high</b> by using MS Pipes or angle iron frame work of verticals at 3 m c/c and horizontals at 0.90 m c/c, Galvalume sheets, Struts, MS Clamps, etc. The verticals shall be embedded/ fixed to concrete pedestals below ground. The rate to include fabricating, cutting and fixing in position MS frame work, painting the same with two coats of approved anti rust paint, etc complete. Contractor to get structural design approved by the Engineer. Contractor shall remove and take away the barricading at his own cost on completion of the works.	Rmt	1.00	5942.97	
15.32	Providing and fixing <b>Speed Breakers of Size 350 W x 500 L x 50 H mm</b> yellow black color as shown in the drawing with necessary fittings & fixtures as directed by EIC.	Rmt	1.00	3021.76	
15.33	Providing & Fixing in position <b>signage board in aluminium extruded brown anodized section or as approved with letters in vinyl on one side</b> covered with acrylic sheet as per approved sample by architect with required fitting, fixtures etc. including all taxes, loading / unloading, transportation, installing etc. all complete. All aluminium components shall be anodised to '101' Bronze colour, 15µm thick, as standard, other colours as approved. Size : 4" x 5"	SqIn	1.00	26.23	
15.34	Providing & Fixing in position <b>signage board in aluminium extruded brown anodized section or as approved with letters in vinyl on both side</b> covered with acrylic sheet as per approved sample by architect with required fitting, fixtures etc. including all taxes, loading / unloading, transportation, installing etc. all complete. All aluminium components shall be anodised to '101' Bronze	SqIn	1.00	31.69	



	colour, 15µm thick, as standard, other colours as approved. Size : 4" x 5"				
15.35	<b>Matter / Graphics with polycarbonate sheet on top</b> for protection at suitable locations including necessary fittings and fastners etc complete and as directed. Size : 7.5" x 12"	SqIn	1.00	19.67	
15.36	<b>Barricading</b> : Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing /direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineerin- Charge. <b>(Note :-</b> One time payment for brought/fabricated barricading at site shall be made , from start of work till completion of work i/c multiple shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	Rmt	1.00	1836.00	
15.37	<b>Name Plate:</b> Providing and fixing of <b>retro-reflectorised informatory sign board</b> rectangular /Square in shape having area less than 0.9 square meter made out of 2 mm aluminium sheet bonded with white retro reflective sheeting of Class B (Type IV High intensity micro-prismatic grade sheeting -HIP) having pressure sensitive /heat activated adhesive retorefective specified background,border and back side retorefective symbols ,letters,numerals,arrow as per IRC	Square Meter	1.00	401.31	



	:67-2012 Table No: 8.3msupported with back support frame of 25mm x25mmx3mm,duly painted on back side with two coats of grey stove enamel paint and supported on one no.mild steel angle iron post 75 mmx75 mmx6 ,,,3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cmx45 cmx 60cm ,60 cm below ground level as per approved drawing .The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixtures and transportation etc.complete.The nut Bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded.Class B (Type IV High intensity micro-prismatic grade sheeting -HIP)sheeting shall have 7years written warranty from the manufacturer and authorised distributor/converter issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to Engineer in charge				
<b>16</b>	<b>PILE WORK</b>				
	Providing and Casting RCC bored cast in-situ Pile Vertical as per IS 2911 (Part 1, Section 2) by boring through all kinds of soils/ Sand /Rock by rotary hydraulic rigs using temporary casing up to stable strata / bentonite mud circulation as specified, from tip to cut-off elevation of piles. Reinforced Cement Concrete work of filling the bore (after placement of reinforcement cage as per drawing) with Ready Mix Concrete using 43 Grade Ordinary Portland Cement confirming to IS : 8112, of approved make and brand with minimum cement content of 400 kg/m <sup>3</sup> and with water -cement ratio, including the water contained in aggregates (10mm to max 20mm size), not exceeding 0.45, with approved plasticizer as specified, including placing of concrete from tip to minimum of 600mm above the specified cut-off level, breaking pile head to cutoff level and exposing pile reinforcement for embedment in pile cap, Disposing & levelling of bored/excavated material suitably at locations approved by the local authorities including all lead and lifts, all complete for piles having diameter of (Pile will be measured for payment for length between pile tip to cut-off level along the pile axis. Reinforcement and Permanat liner if required shall be paid separately. Cost of temporary casing shall be incurred by the Contractor. )				
16.1	300mm pile -M25	Rmt	1.00	4099.62	
16.2	400mm pile-M40	Rmt	1.00	4708.01	
16.3	500mm pile-M40	Rmt	1.00	5391.10	



16.4	600mm pile-M40	Rmt	1.00	6273.38	
16.5	Supply and placing in position <b>high strength deformed steel bars reinforcement of grade Fe-500</b> conforming to IS:1786 (latest version) for RCC Cast-in-situ piles for full length of pile including transporting the same from source to site of work, straightening, cleaning, decoiling, cutting, bending to required shape and lengths as per details, binding with 16 SWG black soft annealed binding wire, supplying and placing with proper cover blocks, supports, chairs, spacers, welding, if required, to form a grid cage etc., complete as per instruction of the Engineer-in Charge (steel supplied by contractor at his own cost and duly approved by Engineer in charge)	MT	1.00	72859.95	
16.6	Providing and installing in position <b>permanent M.S. liners</b> for piles of specified diameter and fabricated from 6.0mm to 8.0mm thick plates as per detailed drawings and designs including cutting, bending to required shape, welding, painting with Red Oxide paint etc. complete as specified and directed.	MT	1.00	97832.21	
	<b>Installation of under reamed vertical piles</b> as per IS: 2911 (Part III) through clays and providing specified pile dia <b>single of specified size under reamed piles</b> with or without using bentonite, tip to cut-off elevation of piles and called for on the drawings or as instructed by the Engineer, filling the bore by using tremie (after placement of reinforcement cage as per drawing) with M35 Grade concrete using 43 Grade Ordinary Portland Cement conforming to IS: 8112, of approved make and brand, with a minimum cement content of 400 kg/m <sup>3</sup> of concrete and with water-cement ratio, including the water contained in the aggregates, not exceeding 0.45, approved plasticisers, if required (quantity as per manufacturer's instructions/ recommendation), etc. all as specified or as directed, including concreting a minimum of 600 mm above the specified cut-off level, cutting-off piles at the elevation specified, etc. and including disposing off the bored/ excavated material upto the dumping yard approved by the local authorities, all complete: (Excluding Reinforcement).				
16.7	400mm pile	Rmt	1.00	4610.58	
16.8	450mm pile	Rmt	1.00	4990.56	
16.9	500mm pile	Rmt	1.00	5392.18	
	Extra over for providing additional bulb in under reamed piles, under specified dia meter (Only the quantity of extra bulbs are to be paid).				
16.10	400mm pile	Rmt	1.00	3204.35	
16.11	450mm pile	Rmt	1.00	3367.81	
16.12	500mm pile	Rmt	1.00	3555.09	





	Carrying out low strain pile integrity test on pile including all arrangements for test, equipments/ accessories, materials, labour, submission of test report etc but excluding the cost of installation of job pile ( <b>installation of pile shall be paid seperately as per relevent items</b> ) all complete as per specification and as directed by the engineer-in-charge				
16.13	300mm / 350 mm / 400mm diameter	Nos	1.00	1786.21	
16.14	450mm pile	Nos	1.00	2083.91	
16.15	500mm pile	Nos	1.00	2381.61	
16.16	600mm pile	Nos	1.00	2977.01	
16.17	750mm pile	Nos	1.00	4167.82	
16.18	900mm pile	Nos	1.00	4763.22	
	<b>Conducting Initial Load Test (Compression)</b> up to maximum test load of 2.5 times the safe load capacity on single pile as specified in accordance with IS 2911 part-4 including preparation of pile head for testing, necessary excavation, jacks, kentledge, accessories, measuring devices, recording of results, labour, submission of test report etc. complete, but excluding the cost of installation of pile (insallation of pile shall be paid seperately) etc.all complete as per the specification, drawing and as directed by the Engineer in charge for the following				
16.19	upto 400mm pile	Nos	1.00	357241.50	
16.20	450mm pile	Nos	1.00	416781.75	
16.21	500mm pile	Nos	1.00	476322.00	
16.22	550mm pile	Nos	1.00	535862.25	
16.23	600mm pile	Nos	1.00	595402.50	
16.24	750mm pile	Nos	1.00	654942.75	
16.25	900mm pile	Nos	1.00	714483.00	
	<b>Conducting Tension/Uplift test (Pull Out )</b> on vertical (initial/test) piles as per IS 2911 part-4 up to maximum test load of two times the safe load capacity as specified including all necessary arrangements such as jacks, supports, measuring devices, etc. complete as required. Arrangements shall be made to record uplift movement, submission of test report etc.( Including Providing and installing test piles)				
16.26	upto 400mm pile	Nos	1.00	238161.00	
16.27	450mm pile	Nos	1.00	297701.25	
16.28	500mm pile	Nos	1.00	357241.50	
16.29	550mm pile	Nos	1.00	416781.75	
16.30	600mm pile	Nos	1.00	476322.00	
16.31	750mm pile	Nos	1.00	535862.25	
16.32	900mm pile	Nos	1.00	654942.75	
	Supplying <b>Hot Rolled steel Permanant sheet piles</b> having properties described in respective specifications or/ and shown in drawings (Z or U type with sectional modulus of minimum 2500 cm <sup>3</sup> , steel grade S430 GP with minimum yield strength of 430 MPa, minimum thickness 12.0 mm thickness, with Larssen interlocks				



	and applying recommended sealant for complete watertightness (if required) & using suitable corner sections as per site condition) .Installing the same to line and level including making reformed steel sheet piles at required positions as corners, junction, wedges etc. as per approved drawing and specification in single or group jointing by welding properly, installing vertically along the alignment with the help of equipments like air compressors,excavator mounted / crane mounted vibro hammers / Impact Hammers / Hydraulic Pressing Hammers / vibrating drives powered by electric or hydraulic motor or combination of both based on the site requirements through the grooves to interlock together, wedges to make up for the permissible deviation of piles from the plumb lines caused during pile driving, slipped piles with the adjacent ones are found or loosened or dislocated during or after installation , sheet piles shall be pulled out and replaced with new ones or redone including necessary modification to the sheet pile to suit the grove of existing sheet piles , including cost and conveyance of all materials, hire charges of equipments, hire charges of crane/rigs, cost of electrodes, mobilisation and demobilisation charges, all labour, other incidentals etc complete. ( No extra payment shall be made for cost of extraction and replacement for installing of sheet pile deviating the specification or rejected by Engineer -in-charge. The rate is inclusive of providing guide frames, cost of installation pit, formation and removal of earthen bund etc.). Payment shall be made on actual depth of sheet pile installation. Permanant Sheet Piles				
16.33	For depth 0 to 5 m below ground level	Sqm	1.00	11629.83	
16.34	For depth 0 to 10 m below ground level	Sqm	1.00	14475.86	
16.35	For depth 0 to 15 m below ground level	Sqm	1.00	16492.65	
<b>17</b>	<b>MISCELLANEOUS ITEMS</b>				
17.1	Providing and supplying <b>fine sand (zone IV)</b> of superior quality	Cum	1.00	1136.80	
17.2	Providing and supplying <b>stone dust</b> of superior quality	Cum	1.00	1276.00	
17.3	<b>Supplying chemical emulsion in sealed containers</b> including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	Litre	1.00	272.31	
17.4	<b>Diluting and injecting chemical emulsion for anti-termite treatment</b> Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	Sqm	1.00	311.40	



	Providing and fixing <b>Exterior grade laminates made from High Pressure Laminates (HPL) of approved design, shade, make and</b> required thick approved by Architect/Client, and sheet size as per Standard size required 1220mm × 2440mm & 1300mm × 3050mm. including Supply & Installation of the JINDAL make Alu.pipe 38mm × 38mm × 2mm thick, & 75mm × 38mm × 2mm thick, Black mate anodized 60-70 microne, "L" angle 25mm × 25mm × 2mm thick, HDG Bracket size 50mm × 75mm × 50mm × 6mm thick, HILTI make Vadge Anchor Fastener size M8 × 125mm SS 316 Grade, Nut-Bolt size M8 × 100mm, SS Screws size M8 × 19mm SDS HPL sheet matching colour Alu. Blind rivets etc, Complete the work as per design and aproved STYLAM FASCIA, MERINO EWC, GREENLAM, FUNDERMAX or equivalent make.				
17.5	HPL 6mm thk	Sqm	1.00	7692.79	
17.6	HPL 8mm thk	Sqm	1.00	8259.94	
17.7	HPL 10 mm thk	Sqm	1.00	9268.19	
17.8	Dewatering the excavated trenches/pits, pools of water, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in-charge including cost of machinery, labour, fuel, pipe and it's accessories etc. complete.Note : This item will be operated/ executed with the prior specific sanction of the Head of department.	HP/Hr	1.00	112.59	
<b>18</b>	<b>LABOUR</b>				
18.1	Coolie	day	1.00	896.45	
18.2	Mason (brick work) 1st class	day	1.00	1092.55	
18.3	Mason (brick work) 2nd class	day	1.00	993.89	
18.4	Mason( for ornamental steel work) 1st class	day	1.00	1092.55	
18.5	Fitter (grade 1)	day	1.00	1092.55	
18.6	Assistant fitter or 2nd class fitter	day	1.00	993.89	
18.7	Carpenter 1st class	day	1.00	1092.55	
18.8	Carpenter 2nd class	day	1.00	993.89	
18.9	Painter	day	1.00	993.89	
<b>19</b>	<b>HIRING OF MACHINE AND EQUIPMENTS</b>				
19.01	Hire Charges for <b>Static Road Roller 8 MT</b> including fuel and operator	Hr	1.00	885.95	
19.02	Hire Charges for <b>Pneumatic Road Roller</b> including fuel and operator	Hr	1.00	1409.62	
19.03	Hire charges for <b>Hydraulic Excavator</b> (wheeled) including fuel and operator	Hr	1.00	1240.33	
19.04	Hire and running charges of <b>tipper</b> within MDL premises including fuel and operator	day	1.00	4872.00	
19.05	Hire and running charges of <b>Crane 5 MT</b> capacity including fuel and operator	Hr	1.00	753.90	
19.06	Hire and running charges of <b>Crane 10 MT</b> capacity including fuel and operator	Hr	1.00	1280.96	
19.07	Hire and running charges of <b>Crane 15 MT</b> capacity including fuel and operator	Hr	1.00	2270.74	
19.08	Hire and running charges of <b>Crane 20 MT</b> capacity including fuel and operator	Hr	1.00	2594.65	
19.09	Hire and running charges of <b>Crane 40 MT</b> capacity including fuel and operator	Hr	1.00	3067.53	



19.10	Hire and running charges of <b>Crane 80 MT</b> capacity including fuel and operator	Hr	1.00	3459.16	
19.11	Hire and running charges of <b>Cloes Hydra 8 - 30 MT</b> including fuel and operator	Hr	1.00	3069.79	
	Total Amount (Rs.)				
	Bidder has to quote GST @				
	Grand Total Amount incl. GST				
	HSN Code				

The anticipated cumulative value of Civil work to be ordered under the Biennial Parallel Rate Contract is about Rs. 20.00 Crore (excluding GST).

**Enclosure-22****HINDRANCE REGISTER**

1. Name of the Work: .....
2. Contract Agreement No. : .....
3. Date of Commencement: .....
4. Stipulated Date of Completion: .....
5. Extended Date of Completion, if applicable: .....
6. Name of the Supplier / Contractor: .....

Sr. No.	Nature of Hindrance	Activity of work affected	Date of notification by contractor	Name & Signature		Date of removal of hindrance	Action Taken		Name & Signature	
				Contractors Representative	Site Executive of MDL		Contractors Representative	Site Executive of MDL		



**To,  
OTS DEPARTMENT**

**OTS-TS SECTION**

**MAZAGON DOCK SHIPBUILDERS LIMITED.**

**MDL Tender No. 1900000231**

**Mazagon Dock Shipbuilders Ltd.**

**Loss of Pass - Contractor/Vendors.**

1. Penalties will be imposed towards loss of passes/ non-renewal of passes apart from warning as deemed necessary for contractors, vendors & their workers. This is in addition to cost of the pass prescribed from time to time.

**Loss:**

- |                  |                                       |
|------------------|---------------------------------------|
| a) First loss -  | Rs. 250/-                             |
| b) Second loss - | Rs. 500/-                             |
| c) Third loss -  | Rs. 1000/- and permanent cancellation |

**Non-Renewal:**

- |                      |                             |
|----------------------|-----------------------------|
| a) Upto 4 days-      | No Penalty                  |
| b) 5-10 days-        | Rs. 5/- per day             |
| c) 11 days & beyond- | Rs. 50/- + Rs. 10/- per day |

2. **Procedure for duplicate pass due to loss:**

The loss has to be immediately reported to the concern Police Station. Thereafter a statement narrating circumstances of the loss, countersigned by the contractor and EIC shall be submitted to security office along with the prescribed penalty.





माझगांव डॉक शिपबिल्डर्स लिमिटेड

बाह्यस्त्रोत-तकनीकी सेवाएँ विभाग

## INVOICE CERTIFICATION

HOD (OTS)

Ref No.:

Date:

Firm's Name: M/s. \_\_\_\_\_ RA Bill No: \_\_\_\_\_

## A. Contract Details:

- Subject: \_\_\_\_\_
- MDL P.O. No: \_\_\_\_\_ dated: \_\_\_\_\_ Value: \_\_\_\_\_
- PO Original Delivery date: \_\_\_\_\_ Extended Delivery Date (if any): \_\_\_\_\_
- Contractor All Risk Policy vide No. \_\_\_\_\_ date.: \_\_\_\_\_ for an amount of Rs \_\_\_\_\_ Valid till dated \_\_\_\_\_
- Performance Bank Guarantee/ Security Deposit vide No. \_\_\_\_\_ dated: \_\_\_\_\_ Rs. \_\_\_\_\_ Valid till \_\_\_\_\_
- Stamp Duty Paid vide Challan No. \_\_\_\_\_ Rs. \_\_\_\_\_

## B: Invoice Details:

- Firms Invoice No: \_\_\_\_\_ dated \_\_\_\_\_
- Period of Work: From \_\_\_\_\_ To \_\_\_\_\_

S.N.	Description	Amount in Rs.
1.	RA Bill Amount	
2.	Price Variation Amount	
3.	<b>Total</b>	

## C. Certification Details:

The following have been appended along with the GST Tax Invoice:

- MDL service entry sheets duly signed attached : Yes/ Not Applicable  
Service Entry Sheet No \_\_\_\_\_  
EMB No. \_\_\_\_\_
- Consultant's Certificate (if applicable) : Yes/ Not Applicable  
Reference No. \_\_\_\_\_ Dated: \_\_\_\_\_
- E-invoice/Vendor's Self Declaration: Yes/ Not Applicable
- No Claim Certificate (applicable for Final Invoice only) : Yes/ Not Applicable
- Vendor rating (applicable for Final Invoice only): Yes/ Not Applicable
- Actual Local Content Certificate (applicable for Final Invoice only) : Yes/Not Applicable
- Price indices & Price Variation sheet (if price variation is included) : Yes/ Not Applicable
- Bank Guarantee against Waterproofing/ Leakages (applicable for Final Invoice only) :  
Yes/ Not Applicable
- The following deductions to be made from the invoice:
  - Liquidated Damages as per purchase order : To be levied/Not Applicable Details of LD to be levied (if applicable): \_\_\_\_\_
  - Other Deductions (if any): \_\_\_\_\_
  - Release of Provisional Retained Amount (if any): \_\_\_\_\_

Engineer in Charge / HOD (Comm)

(Sign &amp; Stamp with date)

Consultant

(Name, Sign &amp; Stamp with Date)

Contractor

(Name, Sign &amp; Stamp with Date)

Enclosure-25



To,  
OTS-TS SECTION  
OTS DEPARTMENT  
MAZAGON DOCK SHIPBUILDERS LIMITED.

MDL Tender No. 1900000231

**EXTRACT OF PROVISIONS OF THE OFFICIAL SECRETS ACT, 1923**

**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 obstruct any Police Officer engaged on guard, sentry or similar duty. If any person moves 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 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.

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**Enclosure-26**

To,  
OTS-TS SECTION  
OTS DEPARTMENT

**MAZAGON DOCK SHIPBUILDERS LIMITED.****MDL Tender No. 1900000231**

**CHECKLIST OF SUBMITTALS ATTACHED ALONGWITH ONLINE TECHNICAL BID**  
**TENDER ENQUIRY No. 1900000231**

Bidder to indicate Submitted/ Not submitted and Yes / No under relevant Column and Reasons for Non submissions if any

<b>Sl No</b>	<b>Submittals (Scanned Copy)</b>	<b>Whether Submitted/ Not Submitted/ Not Applicable</b>	<b>Bidder to indicate the Reasons below for Non Submissions if any, or if they have indicated "NO" under relevant columns</b>
<b>1</b>	Enclosure-1 viz Form of undertaking	Yes/ No	
<b>2</b>	Enclosure-2 viz TEF Acceptance Form	Yes/ No	
<b>3</b>	Enclosure-3 viz General Construction Work	Yes/ No	
<b>4</b>	Enclosure-4 viz GCC Acceptance Form	Yes/ No	
<b>5</b>	Enclosure-5 viz Deviation Form	Yes/ No	
<b>6</b>	CA certified Average Audited Annual financial turnover of Past 03 years ending 31 March 2024		
<b>7</b>	Audit certified Balance Sheets of Past 03 years ending 31 March 2024		
<b>8</b>	Audit certified Profit/Loss Accounts of 03 years ending 31 March 2024		
<b>9</b>	a. Enclosure-6 & 7 viz Bidding Capacity		
	b. Whether Enclosure-6 Certified by CA	Yes/ No	
	c. Whether Enclosure 7 Certified by CA	Yes/ No	
<b>10</b>	Enclosure-8 viz Exp in Similar Projects		
	a. Work Orders along with Scope of work and BOQ		
	b. Completion Certificates issued / authenticated by Client		
	c. TDS Copy in case of Work Completion Certificate issued by Private firm		
<b>11</b>	Enclosure-9 viz Key Personnel for this Project		
<b>12</b>	i) <b>Enclosure-10(B)</b> viz. Declaration certificate for Local Content		
	a. Whether Tender Item Sl No indicated at Col I of <b>Para (d) of Enclosure</b>	Yes/ No	
	b. Whether Local Content Percentage indicated at Col II of <b>Para (d) of Enclosure</b>	Yes/ No	



<b>Sl No</b>	<b>Submittals (Scanned Copy)</b>	<b>Whether Submitted/ Not Submitted/ Not Applicable</b>	<b>Bidder to indicate the Reasons below for Non Submissions if any, or if they have indicated "NO" under relevant columns</b>
	c. Whether Location of Value addition indicated at Col III of <b>Para (d) of Enclosure</b>	Yes/ No	
	d. Whether Enclosure-10(B)viz. Declaration Certificate for Local Content has been signed by <b>Authorized Signatory</b> as indicated at <b>Tender Clause No. 40.4(i)</b>	Yes/ No	
	ii) Enclosure-10(E) viz Declaration in respect of restriction under Rule 144 (xi) of the General Financial Rules (GFRs), 2017	Yes/ No	
	iii) Enclosure-10(F) viz Declaration in respect of of debarred under Public Procurement Policy (PPP) Make In India (MII) order 2017	Yes/ No	
<b>13</b>	Enclosure-11 viz Declaration for Banned or delisted Tenderer	Yes/ No	
<b>14</b>	Enclosure-15 viz EMD Format	Yes/ No	
<b>15</b>	Enclosure-13 - Integrity Pact	Yes/ No	
<b>16</b>	a. Enclosure-14 viz RTGS Form	Yes/ No	
	b. Whether RTGS form is duly authenticated by any Bank	Yes/ No	
<b>17</b>	a. Solvency Certificate	Yes/ No	
	b. Whether Solvency Certificate is issued within 1 Year from Tender date	Yes/ No	
	c. Whether Solvency is issued by a Scheduled Commercial (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act, 1934 excluding Co-operative banks or Regional Rural Banks).	Yes/ No	
<b>18</b>	GST Registration Certificate	Yes/ No	
<b>19</b>	PAN CARD	Yes/ No	
<b>20</b>	a. Shop & Establishment Registration Certificate or Certificate of Incorporation from Registrar of Companies or Registrar of firms registration certificate from local body/Factory license.	Yes/ No	
	b. Whether Shop and Establishment Certificate is valid as on date of submission	Yes/ No	
<b>21</b>	Company Profile	Yes/ No	
<b>22</b>	Power of Attorney	Yes/ No	



S1 No	Submittals (Scanned Copy)	Whether Submitted/ Not Submitted/ Not Applicable	Bidder to indicate the Reasons below for Non Submissions if any, or if they have indicated "NO" under relevant columns
23	Corrigendum, if any	Yes/ No	
24	Enclosure-29-Declaration in respect of Conflict of Interest among Bidders/ Agents	Yes/ No	
25	Document related to Working Capital	Yes/ No	
26	Bidder have valid ESIC code as per ESIC act and PF code	Yes/ No	

The Bidder hereby declares that in case any of the above submittals are **not submitted/ not appended** along with the tender bid or the bidder have indicated "**No**" against any of the above submittals, MDL reserves the right to disqualify their bid for incomplete submission of the documents without assigning any reasons. The bidder shall be responsible for the incompleteness of their bid.

SIGNATURE \_\_\_\_\_

NAME \_\_\_\_\_

DESIGNATION \_\_\_\_\_

COMPANY SEAL

COMPANY \_\_\_\_\_

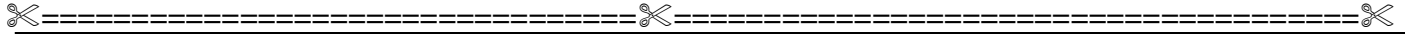
DATE \_\_\_\_\_





**Address Label**

Please cut & Affix Address label given below on the envelope for sending EMD and Integrity Pact



**Sub: Biennial Rate Contract (2025-2027) for Major Civil Works in Various buildings / Workshops in MDL Yards at Dockyard Road, Anik Chembur, Nhava, Gavhan, South Yard Annexe, Residential quarters at Dockyard Road, Vashi and Belapur**

**Ref: MDL Tender No.1900000231**

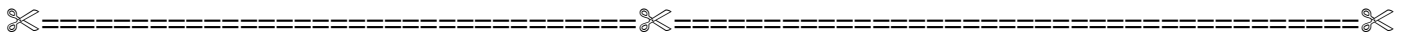
**EMD & INTEGRITY PACT**

**To,**

**Head of Department (OTS),  
OTS Department,  
OTS-TS Section  
6<sup>th</sup> Floor, Service Block Bldg., NY.  
Mazagon Dock Shipbuilders Limited,  
Dock Yard Road, Mumbai – 400010.**

**From,**

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**माझगांव डॉक शिपबिल्डर्स लिमिटेड**  
**तकनीकी सेवाएँ विभाग**

**Certification for Disposal of Scrap/Debris**

**Sub: Biennial Rate Contract (2025-2027) for Major Civil Works in Various buildings / Workshops in MDL Yards at Dockyard Road, Anik Chembur, Nhava, Gavhan, South Yard Annexe, Residential quarters at Dockyard Road, Vashi and Belapur**

**Ref: MDL Tender No. 1900000231**

**RA NO.:**

This is to certify that there is no accumulation of scrap/debris at site in sizable quantum, in respect of the works carried out for the subject work, as on date.

The scrap/debris generated from the above work is disposed of as per extant procedure.

**Engineer in Charge**

(Name, Sign & Stamp with date)

**Contractor**

(Name, Sign & Stamp with Date)



MDL Tender No. 1900000231

**Enclosure-29****Declaration in respect of Conflict of Interest among Bidders/ Agents**

*We, hereby, declare that we do not have Conflict of Interest with other Bidders. We shall be disqualified if found having conflict of interest with other bidders.*

*We may be considered to have a conflict of interest with one or more parties in this bidding process, if:*

- a) We have controlling partner(s) in common; or*
- b) We received or have received any direct or indirect subsidy/ financial stake from any of them; or*
- c) We have the same legal representative/ agent for purpose of this bid; or*
- d) We have relationship with each other, directly or through common parties, that puts us in a position to have access to information about or influence on the bid of another Bidder; or*
- e) We participate in more than one bid in this bidding process. Participation by us in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid.*
- f) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/ management, only one unit should quote. Similar restrictions would apply to closely related sister companies. We must proactively declare such sister/ common business/ management units in same/ similar line of business.*

**SIGNATURE: \_\_\_\_\_****DATE: \_\_\_\_\_****Seal / Stamp of Bidder**



**PROFORMA OF UNCONDITIONAL AND IRREVOCABLE INSURANCE SURETY  
BOND FOR BID BOND / EMD**

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

Ref. No. ....

Insurance Surety Bond No. ....

Dated: .....

1. 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 Company" 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 agreed to accept the Earnest Money Deposit (EMD) of Rs------(Rupees-----only) in the form of an unconditional and irrevocable Insurance Surety Bond (ISB) from Messers ..... a partnership firm/sole proprietor business/a company registered under the Companies Act, 1956 having its office at .....(hereinafter called "the tenderer" 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) for participating in the Tender no.....dated..... (hereinafter called "the tender" which expression shall include any amendments/alterations to "the tender" issued by "the Company") for the supply, delivery at site, installation and commissioning of certain equipment, item/services/civil works etc., We, ..... Surety Insurer having office at ..... (hereinafter referred to as "the Surety" which expression shall include its successors and assigns) hereby agree to pay to the Company without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) against any loss or damage, costs, charges and expenses caused to or suffered by the Company by reason of non-performance and non-fulfilment or for any breach on the part of the tenderer of any of the terms and conditions of the said tender.

2. We, ..... the Surety further agree that the Company shall be sole judge whether the said tenderer has failed to perform or fulfil the said tender in terms thereof or committed breach of any terms and conditions of the tender the extent of loss, damage, cost, charges and expenses suffered or incurred or would be suffered or incurred by the Company on account thereof and we waive in the favour of the Company all the rights and defences to which we as sureties may be entitled to.

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

4. We, ..... the Surety further agree with the Company that the Company 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 tender/or to extend



time of performance by the tenderer from time to time or to postpone for any time to time any of the powers exercisable by the Company against the tenderer and to forbear to enforce any of the terms and conditions relating to the tender and we shall not be relieved from our liability by reason of any such variation or extension being granted to the tenderer or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the tenderer or by any such matter or things whatsoever which under the law relating to sureties would have the effect of relieving us.

5. We, ..... the Surety further undertake not to revoke this Bond during its currency except with the previous consent of the Company in writing.

6. We, ..... Surety also agree that the Surety's liability under this Bond shall not be affected by any change in the constitution of the tenderer or dissolution or winding up of the business of the tenderer.

7. Notwithstanding anything contained herein above:

- (i) Our liability under this Bond shall not exceed Rs.....
- (ii) This Surety Bond shall be valid upto and including .....; and
- (iii) We are liable to pay the Bond amount or any part thereof under this Surety only and only if you serve upon us a written claim or demand on or before .....(validity + ---weeks from the date of expiry of this Bond).

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

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

For .....

(Signature of a person authorised to sign on behalf of "the Surety")





**PROFORMA OF UNCONDITIONAL AND IRREVOCABLE INSURANCE SURETY**  
**BOND FOR PERFORMANCE SECURITY**  
(ILLUSTRATIVE FORMAT)

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

1. 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 an unconditional and irrevocable Insurance Surety Bond in lieu of Performance Security payable under the said order for the fulfillment and performance of the said order, We, ..... Surety Insurer having office at ..... (hereinafter referred to as "the Surety" which expression shall includes 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 non performance 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, .....the Surety 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 favour of the Purchaser all the rights and defences to which we as surety may be entitled to.
3. We, ..... the Surety further agree that the amount demanded by the Purchaser as such shall be final and binding on the Surety as to the Surety's liability to pay and the amount demanded and the Surety 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 Bond being absolute and unconditional.
4. We, ..... the Surety 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, ..... the Surety further undertake not to revoke this Bond during its currency except with the previous consent of the Purchaser in writing.

6. We, ..... the Surety also agree that the Surety's liability under this Bond 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 Bond shall not exceed Rs.....
- (ii) This Surety Bond shall be valid upto and including .....; and
- (iii) We are liable to pay the Bond amount or any part thereof under this Surety Bond only and only if you serve upon us a written claim or demand on or before .....(validity + 4 weeks from the date of expiry of this Bond).

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

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

For ..... Surety  
(by its constituted attorney)  
(Signature of a person authorised  
to sign on behalf of "the Surety")