

### Bid Document

<b>Bid Details</b>	
<b>Bid End Date/Time</b>	02-02-2023 14:00:00
<b>Bid Opening Date/Time</b>	02-02-2023 14:30:00
<b>Bid Offer Validity (From End Date)</b>	180 (Days)
<b>Ministry/State Name</b>	Ministry Of Defence
<b>Department Name</b>	Department Of Defence Production
<b>Organisation Name</b>	Mazagon Dock Shipbuilders Limited
<b>Office Name</b>	*****
<b>Total Quantity</b>	1123
<b>Item Category</b>	Thermal Night Vision Camera , Built In Command and Control Thermal Software , 8 Port Manageable Switch with internal PSU , 2 KVA Online UPS , Optical Fiber Cable 24 Core Single Mode Armoured With HDPE Pipe , Armored CAT 6 Cables , UTP Cable CAT6 PER MTR Armored Power Cable 3 Core , Industrial Grade 100 Base FX Media Converter , 12 Port LIU Fully Loaded with adapters and pigtaills , SC SC and UTP Patch Cords , Weatherproof Junction Boxes Metallic , SS Junction Box all weather Size Min , Self Supporting Lattice Tower , Installation of Engineering Equipment
<b>BOQ Title</b>	supply and commissioning of Thermal Imaging System
<b>MSE Exemption for Years of Experience and Turnover</b>	No
<b>Startup Exemption for Years of Experience and Turnover</b>	No
<b>Document required from seller</b>	Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
<b>Bid to RA enabled</b>	No
<b>Type of Bid</b>	Two Packet Bid
<b>Primary product category</b>	Installation of Engineering Equipment
<b>Time allowed for Technical Clarifications during technical evaluation</b>	2 Days
<b>Payment Timelines</b>	Payments shall be made to the Seller within <b>21</b> days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
<b>Evaluation Method</b>	Total value wise evaluation

**EMD Detail**

Advisory Bank	State Bank of India
EMD Amount	234000

**ePBG Detail**

Advisory Bank	State Bank of India
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	14

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**Beneficiary:**

GM(M)

Mumbai, Department of Defence Production, Mazagon Dock Shipbuilders Limited, Ministry of Defence  
(H R Singh)

**Splitting**

Bid splitting not applied.

**MII Purchase Preference**

MII Purchase Preference	Yes
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**MSE Purchase Preference**

MSE Purchase Preference	Yes
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1. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued

by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY.

3. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

### Thermal Night Vision Camera

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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#### Technical Specifications

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	1	90

### Built In Command And Control Thermal Software

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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#### Technical Specifications

<b>Specification Document</b>	<a href="#">View File</a>
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**BOQ Detail Document**[View File](#)

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	1	90

**8 Port Manageable Switch With Internal PSU**

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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**Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	1	90

**2 KVA Online UPS**

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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## Technical Specifications

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

## Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	1	90

## Optical Fiber Cable 24 Core Single Mode Armoured With HDPE Pipe

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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## Technical Specifications

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

## Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	500	90

## Armored CAT 6 Cables

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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**Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	300	90

**UTP Cable CAT6 PER MTR Armored Power Cable 3 Core**

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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**Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	300	90

### Industrial Grade 100 Base FX Media Converter

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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#### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	2	90

### 12 Port LIU Fully Loaded With Adapters And Pigtails

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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#### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	1	90

**SC SC And UTP Patch Cords**

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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**Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	10	90

**Weatherproof Junction Boxes Metallic**

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
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**Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.



**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	2	90

**SS Junction Box All Weather Size Min**

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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**Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	2	90

**Self Supporting Lattice Tower**

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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**Technical Specifications**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	1	90

#### Installation Of Engineering Equipment

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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#### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****Mumbai	1	90

#### Buyer Added Bid Specific Terms and Conditions

##### 1. Generic

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address SECURITY DEPARTMENT MAZAGON DOCK SHIPBUILDERS LIMITED, DOCKYARD ROAD

MAHARASHTRA MUMBAI 400010.

2. **Generic**

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

3. **Generic**

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

4. **Generic**

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

5. **Generic**

**Manufacturer Authorization:**Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

6. **Generic**

**OPTIONAL SITE VISIT:**

1. The Bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne by the Bidder. Cost of visiting the site shall be borne by the Bidder
2. The Bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the Bidder will release and indemnify the Buyer and Consignee against all liabilities arising out of such visit including death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such visit.
3. The Bidder shall not be entitled to hold any claim against Buyer for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

7. **Generic**

The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price: All Essential accessories.

8. **Forms of EMD and PBG**

Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name MAZAGON DOCK SHIPBUILDERS LIMITED Account No. 10005255246 IFSC Code SBIN0009054 Bank Name STATE BANK OF INDIA Branch address MAZAGAON BRANCH, MAZAGON,MUMBAI-400010.. Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

## 9. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name MAZAGON DOCK SHIPBUILDERS LIMITED Account No. 10005255246 IFSC Code SBIN0009054 Bank Name STATE BANK OF INDIA Branch address MAZAGAON BRANCH, MAZAGON,MUMBAI-400010.. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

## 10. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

All bidders shall upload a scanned copy of the following pre-qualification criteria along with their bid:

1) EMD payment details as per tender. Note: Micro & Small Manufacturers for the tendered item and or Bidder's who are permanently registered as a manufacturer for the tendered item with Mazagon Dock Ship Builders Limited (MDL) are exempted from submission of EMD (Valid MDL Registration Document to be enclosed along with the bid). All other bidders who fall under Services, Medium Manufacturing criteria shall pay the EMD online and provide the transaction details along with their bid. Non-submission of EMD transaction details shall lead to rejection of your offer without any intimation.

2) Bidder shall have a minimum average turnover of at least Rs. 35,10,000/- during the last 3 years and shall submit last three years audited/certified balance sheet, profit & loss account statement.

3) Bidder shall have executed order of similar supplies of value of at least Rs. 58,00,000/- during the last three years (As per Para No 18) and shall submit relevant purchase order copies and corresponding work completion certificates.

4) Contact details for Queries: In case of any clarification regarding tender condition / Specification, bidders are requested to contact following executives, before tender closing

Technical

Mr Ayub Khan, Manager (Security)

+91 22 2376 3377, ayubkhan@mazdock.com

Mr Sudhir Dixit, Chief Security Officer

+91 22 2376 3355 , sdixit@mazdock.com

Commercial

Mr Sumit Deore, CM(C-MP)

+91 22 23763256, sadeore@mazdock.com

Mr S K Dhiman, DGM (C-MP)

+91 22 23763246, skdhiman@mazdock.com

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## 11. Warranty

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of

Service Centres near consignee destinations are to be uploaded along with the bid.

12. **Turnover**

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

13. **Generic**

IT equipment shall be IPv6 ready from day one.

14. **Generic**

Malicious Code Certificate:

The seller should upload following certificate in the bid:-

(a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-

- (i) Inhibit the desires and designed function of the equipment.
- (ii) Cause physical damage to the user or equipment during the exploitation.
- (iii) Tap information resident or transient in the equipment/network.

(b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

15. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 50 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 50% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

16. **Inspection**

**Pre-dispatch inspection at Seller premises (Fee/Charges to be borne by the BUYER):** Before dispatch, the goods will be inspected by Buyer / Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at Seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specifications. Fee/Charges taken by the External inspection Agency and any external laboratories testing charges shall be borne by the Buyer. For in-house testing, the Sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. The goods would be dispatched to consignee only after clearance in pre-dispatch inspection. Consignee's right of rejection as per GTC in respect of the goods finally received at his location shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by Buyer/ Consignee or its Nominated External Inspection Agency prior to the goods' shipment. While bidding, the sellers should take into account 7 days for inspection from the date of email offering the goods for inspection. Any delay in inspection beyond 7 days shall be on the part of the buyer and shall be regularised without Liquidated Damages.

When there is requirement of submission the advance sample, the seller shall inform the buyer promptly through emails about the date of submission of sample to the buyer nominated Inspection agency.

17. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

## 18. Past Project Experience

**Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.**Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.

## Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, 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. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---Thank You---



## Technical Specification

Sr. No	Description	Qty	Unit Meas.	Consignee Code	Delivery Period
100	<p>THERMAL CAMERA NIGHT VISION CCD</p> <p>Thermal, Night Vision CCD, Spotlight (2.4km) camera-IP Based Thermal Integrated Single Unit with MIL-STD with Thermal Unit Server.</p> <p>All payloads must be part of Single Physical Housing Unit and shall be integrated professionally well as a single unit. A day/low-light CCD camera and thermal imager, which adds a high-power spotlight/beam light as per specifications to detect, deter and temporarily disorient intruders. To illuminate intruders within a 2 kms and above radius.</p> <p>The Thermal Camera Viewing, CCD Camera Viewing, PTZ Control, Spotlight Control etc. all other required features and triggering actions to be integrated and supported on the existing Vivotek VAST VMS software in Mazagon Dock Shipbuilders Ltd.</p> <p>The Thermal Camera Unit to be integrated with all the required features on the existing Vivotek VAST VMS and TO BE COMPATIBLE / CONFIGURED AND INTEGRATED IN THE EXISTING CISF, CSO, GM SECURITY &amp; ALCOCK YARD SERVER AND VAST SOFTWARE AND TO BE MONITORED &amp; RECORDED ON THE SAME EXISTING SYSTEM. NO ADDITIONAL SOFTWARE OR SERVER ALLOWED TO BE USED FOR SAME.</p> <p>FEATURES: -</p> <ul style="list-style-type: none"> <li>• Simultaneous video outputs – thermal camera and CCD camera for integration into IP.</li> <li>• NEMA 4, IP66, CE, ISO 9001:2008, MIL-STD-810.</li> <li>• See objects in complete darkness and adverse weather conditions.</li> </ul>	1	Nos.	sbk_mdstores	90 Days



# Technical Specification

<ul style="list-style-type: none"> <li>• Single Unit Integrated blinding, non-lethal deterrence with the 10 MCP spotlight that changes its area of illumination with the field of view of the CCD camera.</li> <li>• CCD Camera to be compatible and work in the existing VAST Software in MDL with all features.</li> </ul> <p>Integrated Single Unit Specifications: -----</p> <ol style="list-style-type: none"> <li>1. Built: All payloads are part of single physical housing unit and shall be integrated Professionally well to work as a single unit.</li> <li>2. OEM specific technology to be available in the system to combine spotlight/beam Light/laser pointer and CCD Imagery in real time. (To be mentioned)</li> <li>3. Control Interface: Serial RS422 and 10/100 Ethernet</li> <li>4. Operating Temperature: -20 Degree Celsius to +40 Degree Celsius</li> <li>5. Weight: OEM Specific, to be sturdy on the designed tripod stands.</li> <li>6. Pan Azimuth range: 360 Degree Continuous<sup>1</sup></li> <li>7. Tilt Elevation Range: +60 Degree to -60 Degree or more</li> <li>8. PAN &amp; Tilt Motion Speed: 0.25 to 60 degrees / sec controlled Over 110degrees /sec uncontrolled</li> <li>9. The System to Support activity adaptive streaming for dynamic frame rate control.</li> <li>10. The System to have: 2 D/I &amp; 2 D/O minimum or more for external sensor and alarm.</li> <li>11. Certifications: MIL-STD-810, NEMA 4, ISO 9001: 2008/ISO 9001:2015, IP66</li> </ol> <p>Thermal Camera Sensor:</p>				
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# Technical Specification

<p>-----</p> <p>Thermal Camera to be built in on the camera unit to be capable to display and support required features and triggering following actions on the existing Vivotek VAST VMS software in Mazagon Dock Shipbuilders Ltd.</p> <p>12. Detector: Cooled or Uncooled 640X480 with 17um  13. Minimum Resolution: 640X480 or better, Scalable up to 800x600 (SVGA)  14. Lens Focal Length: 50mm or more  15. Lens: FoV 11 or above Degree Horizontal; 9 or above Degree Vertical.  16. Camera Lens Changeable Capability: The camera must have optional lens changeable      capability to be available in wider (30mm or wider) and narrower (90mm or narrower) lens      options for selection by end user for different physical site characteristics in future.  17. Lens F number: f/0.8 or better (lower is better)  18. Brightness/Contrast: Automatic and Manual Control  19. Man Detection: 1Km or more  20. Integration: To support most protocols and interface with VMD, radar, UGS or other trigger sensors.</p> <p>Day CCD Camera:  -----</p> <p>CCD Camera to be built in on the camera unit to be capable to display and support required features and triggering actions on the existing Vivotek VAST VMS software in Mazagon Dock Shipbuilders Ltd.</p> <p>21. Detector: Low light CCD  22. Compatibility: To be compatible and work in the existing VAST Software in MDL with all features.</p>				
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## Technical Specification

<p>23. Lens FoV: Narrow mode 1.9 Degree Horizontal or less; Wide mode 40 Degree Horizontal or more          23. Optical Zoom: 26X or more          24. Digital zoom: 8X or more          25. Brightness /Contrast: Automatic and Manual Control          26. Minimum Illumination: 0.25lux or less          27. Low Light Mode Minimum Illumination: 0.15 lux or less</p> <p>Spotlight/Beam Light:          -----          Spotlight to be built in on the camera unit to be capable to be triggered with required features from the existing Vivotek VAST VMS software in Mazagon Dock Shipbuilders Ltd.</p> <p>28. Light Output: 10 MPC or higher illumination or Xeon gas discharge.          29. Spotlight/Beam Light/Laser Pointer Type: Zoom linked variable power          30. Spotlight/Beam Light/Laser Pointer width: Narrow: 1.5 Degree or less; Wide: 30 Degree or More.          31. Spotlight/Beam Light/Laser Pointer Range: 2Km or better          32. Spotlight Illumination: 1.5 lux or more on target within spotlight range          33. Function: Blinding, non-lethal deterrence with the Spotlight/Beam Light/Laser Pointer that          Changes its area of illumination with the field of view of the CCD camera.          30 fps at D1</p> <p>THERMAL UNIT SERVER:          -----          Thermal Unit Server to support alarm to be raised and all required features and triggering following actions on the existing Vivotek VAST VMS software in Mazagon Dock Shipbuilders Ltd.</p>				
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## Technical Specification

<p>The server to be integrated with all the required features on the existing Vivotek VAST VMS and TO BE COMPATIBLE / CONFIGURED AND INTEGRATED IN THE EXISTING CISF, CSO, GM SECURITY &amp; ALCOCK YARD SERVER AND VAST SOFTWARE AND TO BE MONITORED &amp; RECORDED ON THE SAME EXISTING SYSTEM. NO ADDITIONAL SOFTWARE OR SERVER ALLOWED TO BE USED FOR SAME.</p> <p>Resolution Real-time H.264, MJPEG Compression (Dual Codec) One-way Audio Smart Stream II to Optimize Bandwidth Efficiency RS-485 Interface for PTZ Camera Control Ultra-mini Size for Front-end Installation and Discreet Surveillance Application DC 12V Power Sharing with Analog Camera Trend Micro IoT Security</p> <p>CPU- Multimedia SoC (System-on-Chip) RAM-256 MB</p> <p>Video Video Compression- H.264, MJPEG Maximum Frame Rate - 30 fps @ 720x480, 25 fps @ 720x576 Maximum Streams - 3 simultaneous streams Video Streaming - Adjustable resolution, quality and bitrate, Smart Stream II General settings: video title and time stamp overlay, video orientation (flip, mirror); Image Settings: image adjustment (brightness, contrast, saturation, sharpness, X-offset, Y-offset), deinterlacing (spatial mode, blend mode); Privacy mask; Scheduled profile settings</p> <p>Audio Audio Capability</p>				
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# Technical Specification

<p>One-way Audio          Audio Compression          G.726, G.711          Audio Interface          External microphone input</p> <p>Network          Security Access list, digest authentication, HTTPS, IEEE 802.1x, password protection, Trend Micro IoT Security, user access log, user account management</p> <p>Protocols          802.1X, ARP, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP</p> <p>Interface          10Base-T/100BaseTX Ethernet (RJ-45)          ONVIF          Profile S supported; specification available at <a href="http://www.onvif.org">www.onvif.org</a></p> <p>Intelligent Video          Video Motion Detection          Five-window video motion detection          Trend Micro IoT Security</p> <p>Alarm and Event          Event Trigger - Audio detection, camera tampering detection, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, system boot, video loss, video restoration          Event Action - Event notification via email, HTTP, FTP, NAS server, SD card          File upload via email, HTTP, FTP, NAS server, SD card</p>				
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## Technical Specification

	<p>General Supported P/T/Z DynaDome/SmartDome, Pelco D, Pelco P, Samsung scc643 and customized types Connectors - RJ-45 cable connector for 10/100Mbps Network/PoE connection Certifications EMC: CE (EN55022 Class B, EN55024), FCC (FCC Part 15 Subpart B Class B), RCM (AS/NZS CISPR 22 Class B), VCCI (V-3/2016.11, Class B, V-4/2012.04); Safety: CB (IEC/EN 60950-1)</p>				
200	<p>Built-in COMMAND &amp; CONTROL THERMAL SOFTWARE ----- &gt; Support for dynamic event streaming for integration with existing MDL Video Management Software. 1. Support for PTZ camera control 2. Support for additional sensors such as Radar, Unattended Ground Sensors, Fiber based buried fence, Auto/Manual floodlight control, Access Control system. 3. Support for online maps (Google, Microsoft, ESRI, Open Street maps). 4. Target hand off capability from one sensor to other. 5. Support multiple users/clients with access to select sensors/areas of responsibility. 6. Capability to mark and manage targets (friend/foe etc.). 7. Support for Dynamic GUI supporting multiple real time view. 9. Video Display, Archive and playback capability. 10. Support for at least 4 monitors driven by single Command and Control System Client System. 11. Tracking capability of known and unknown targets Automatic slew-to-cue camera tracking Manually initiated target tracking friend/foe management Configurable intrusion zones and target appearance Supports radars, tracks, cameras, users, maps and intrusion zones</p>	1	Nos.	sbk_mdlistores	90 Days

## Technical Specification

	<p>Simple replay of any tracked targets  Track multiple intrusions in different zones  Automatic tracking between detection zones  12. Communication Hybrid digital/analog/modem/wireless  Send/receive messages to other Software users  Target alerts to specific user groups. Full alarm handling capability  13. Third Party Interface CCTV keyboards, video servers, video transcoders, encoders, decoders, multiplexers, switchers, receivers, quad modules, DVRs, VCRs, NVRs, GPS enabled devices, surveillance towers, radars.</p>				
300	<p>8-PORT 10/100/1000T MANAGEBLE SWITCH</p> <p>-port 10/100/1000T manageable switch with internal PSU</p> <p>-----</p> <ol style="list-style-type: none"> <li>1. Sturdy metal Case-Operating temperature 0-50°C</li> <li>2. Silent operation; fanless-Full-duplex flow control</li> <li>3. 1,488,000pps for 1000Mbps Ethernet-Cable length detection and power minimization.</li> <li>4. Default aging time: 200-600 seconds</li> <li>5. Auto MDI/MDI-X on TX port</li> <li>6. Packet Buffer: 128Kbytes</li> <li>7. Jumbo Frames: 9216bytes</li> <li>8. EAP pass through: Yes</li> <li>9. BPDU pass through: Yes</li> <li>10. Half/full-duplex</li> <li>11. Auto-negotiation</li> <li>12. Interface connections: 10/100/1000T RJ-45</li> <li>13. Frequency: 50 - 60Hz</li> <li>14. Standards and compliance</li> <li>15. IEEE 802.3 10BASE-T</li> <li>16. Safety</li> </ol>	1	Nos.	sbk_mdlistores	90 Days

## Technical Specification

	<p>17. IEEE 802.3x Flow Control-CSA C22.2 No.60950-1-07, 2nd Edition  18. IEEE 802.3az Energy-Efficient Ether-IEC60950-1(UL-EU, UL-CB)  19. Electrical/mechanical approvals -Restrictions on Hazardous Substances (RoHS) compliance EAC certification  20. EU RoHS compliant EN55024</p>				
400	<p>2 KVA Online UPS  -----</p> <p><b>Main</b></p> <ul style="list-style-type: none"> <li>• Rated power in W - 600 W</li> <li>• Rated power in VA - 1000 VA</li> <li>• Nb of power socket outlets - 4 India 3-pin 6A / 2 India 3-pin 6A surge</li> <li>• Main Output Voltage - 230 V</li> <li>• Main Input Voltage - 230 V</li> <li>• Cable length - 1.52 m</li> <li>• Number of cables – 1</li> </ul> <p><b>Input</b></p> <ul style="list-style-type: none"> <li>• Network frequency - 50/60 Hz +/- 3 Hz auto-sensing</li> <li>• Plug standard - India 3-pin 6A</li> <li>• Input voltage limits - 170...294 V</li> </ul> <p><b>Output</b></p> <ul style="list-style-type: none"> <li>• Maximum configurable power in W - 600 W</li> <li>• Output frequency - 50/60 Hz +/- 1 Hz sync to mains</li> <li>• UPS type -Line interactive</li> <li>• Wave type - Stepped approximation to a sine wave</li> <li>• Efficiency - 84 % (full load) &amp; 80 % (half load)</li> <li>• Maximum configurable power in VA - 1000 VA</li> <li>• Transfer time - 8 ms typical: 12 ms maximum.</li> </ul>	1	Nos	sbk_mdstores	90 Days



## Technical Specification

	<p>Battery</p> <ul style="list-style-type: none"> <li>• Battery type - Lead-acid battery</li> <li>• Battery recharge time - 7.4 h</li> <li>• Battery charger power - 29 W rated</li> <li>• Battery power in VAH - 216 VAh runtime</li> </ul> <p>Communications &amp; Management</p> <ul style="list-style-type: none"> <li>• Control panel - Multifunction LCD status and control console</li> <li>• Alarm - Alarm when on battery: distinctive low battery alarm: overload continuous tonealarm</li> </ul> <p>Surge Protection and Filtering</p> <ul style="list-style-type: none"> <li>• Surge energy rate -680 J</li> <li>• Let through voltage rating - 330 V</li> </ul> <p>Product certifications –BIS</p>				
500	<p>OPTICAL FIBER CABLE 24 CORE SINGLE MODE ARMOURED with HDPE PIPE</p> <p>-----</p> <p>Fiber type 24 Core Single mode (1310nm/1550nm2 Strength Member FRP</p> <ol style="list-style-type: none"> <li>1 Outer jacket material HDPE</li> <li>2 Outer Jacket colour Black</li> <li>3 Nominal diameters (mm) <math>8.5 \pm 0.5</math> mm</li> <li>4 Cable weight (kg/km) 98</li> <li>5 Tensile strength (N) 1000 N</li> <li>6 Crush Resistances (N) 4000</li> <li>7 Min. bend radius (Dynamic) <math>20 \times D</math></li> <li>8 Cable cut off wavelength (nm) <math>\leq 1260</math></li> <li>9 Dispersion (ps/nm.km) <math>\leq 18</math> @1550nm</li> <li>10 Core diameters (um) 8.2</li> <li>11 Cladding diameter (um) <math>125 \pm 1 \mu\text{m}</math></li> </ol>	500	Mtr	sbk_mdstores	90 Days
600	<p>Armored CAT 6 cables</p> <p>-----</p>	300	Mtr	sbk_mdstores	90 Days

## Technical Specification

	<p>1. The horizontal cables should be 4-pair unshielded twisted pair (UTP) specifications.</p> <p>2. The cable should be of 4 twisted pairs of 23 AWG solid conductors with</p> <p>3. Should have Star filler (No bisector tape) cable construction</p> <p>4. Insulation Material: Polyethylene</p> <p>5. Electrical Performance</p> <ul style="list-style-type: none"> <li>• Conductor DC resistance @ 20°C(max) 9.38 ohm /100m</li> <li>• DC resistance Unbalance (max) 5%</li> <li>• Mutual Capacitance @ 20°C(max) 5.6nF/100m</li> <li>• Nominal Velocity of Propagation. 70%</li> <li>• Attenuation at 250MHz 32.8dB</li> <li>• Return Loss at 250MHz 17.3dB</li> <li>• ACR at 250MHz 5.5dB</li> <li>• PSACR at 250MHz 3.5dB</li> <li>• NEXT at 250MHz 38.3dB</li> <li>• PSNEXT at 250MHz 36.3dB</li> <li>• ELFEXT at 250MHz 19.8dB</li> <li>• PSELFEXT at 250MHz 16.8dB</li> <li>• Thermal Characteristics Operating temperature -15 to +70°C</li> </ul>				
700	<p>Armored POWER CABLE 3 CORE</p> <p>-----</p> <p>3 core 2.5sq mm Power cable armored should be used, as and where required, as per vendor Design.</p>	300	Mtr	sbk_mdstores	90 Days
800	<p>MEDIA CONVERTER 10/100Mbps to 100Base-F</p> <p>-----</p> <p>Industrial Grade 10/100Mbps to 100Base-Fx Media Converter</p> <p>-----</p> <ul style="list-style-type: none"> <li>• Link Fault Pass-Through support.</li> <li>• Inter operable with most of Hubs and Switches.</li> </ul>	2	Nos	sbk_mdstores	90 Days

## Technical Specification

	<ul style="list-style-type: none"> <li>• TP Port Supports Auto Negotiation and Auto-MDI-X.</li> <li>• Powered by USB*</li> </ul> <p>Technical Specifications</p> <ul style="list-style-type: none"> <li>• Fiber Mode Single Mode</li> <li>• Wave length 1310nm</li> <li>• Fiber Cable 9/125Micron</li> <li>• Fiber Cable Distance 20Kms</li> <li>• Fiber Connector SC type</li> <li>• Copper UTP Port RJ-45</li> </ul> <p>LED Indicator FX</p> <ul style="list-style-type: none"> <li>• Link/ACT</li> <li>• DUP</li> <li>• SD</li> <li>• TP: 100</li> <li>• PWR</li> <li>• Power Adapter External DC5V, 1A</li> </ul> <p>Environment Specifications</p> <ul style="list-style-type: none"> <li>• Operating Temperature: 0°c~50°c</li> <li>• Humidity: 5%~90% Non-condensing</li> <li>• Certifications CE, FCC</li> <li>• 94 x 70.3 x 26.2 mm</li> </ul>				
900	<p>12 port LIU Fully Loaded with adapters &amp; pigtails</p> <p>-----</p> <p>Technical Specifications</p> <ul style="list-style-type: none"> <li>• 12 Port Rack Mount Fiber Patch panel should be of Dimensions: 19" (Width) x 1U (Height) x270mm (Depth)</li> <li>• Should be able accept SC Duplex, SC Simplex, LC Duplex and MTRJ Adaptors.</li> </ul>	1	Nos	sbk_mdstores	90 Days

## Technical Specification

	<ul style="list-style-type: none"> <li>• Should have snap-in sub modules with six single fiber or 3 dual fiber ports.</li> <li>• Should have a fiber management system moulded in to the unit structure to effectively route fibers from an incoming cable through to the connect or inter face.</li> <li>• Should have knockouts at the rear to enable termination of loose tube or tight buffered cables as well as blown fiber tubes.</li> <li>• Should be made up of polycarbonate, PC/ABS.</li> <li>• Should have the option of accommodating 3 nos. of splice protection sleeve, each can accommodate 4 connectors.</li> </ul>				
1000	<p>SC-SC and UTP Patch Cords</p> <p>-----</p> <ul style="list-style-type: none"> <li>• 1.6mm cordage</li> <li>• Pull Proof connectors</li> <li>• ROHS Compliant</li> <li>• IEC-61754-20</li> <li>• Pigtail Supply with loaded secondary coated SC Pigtail.</li> </ul>	10	Nos	sbk_mdIstores	90 Days
1100	<p>All Weatherproof JUNCTION BOX METALLIC 25"x25"x14".</p> <p>-----</p> <p>Technical Specifications Weather proof Junction Boxes 24"x24"x18" - for all networking equipment.</p>	2	Nos	sbk_mdIstores	90 Days
1200	<p>SS JUNCTION BOX ALL WEATHER SIZE MIN 12"x12"x04</p> <p>-----</p> <p>Technical Specifications Weather proof Junction Boxes (12X12X04 inch)</p>	2	Nos	sbk_mdIstores	90 Days
1300	<p>12M SELF SUPPORTING TOWER SELF SUPPORTING LATTICE TOWER:</p> <p>Triangular towers. These is fabricated out of angles/ pipes. The construction of tower could be welded or bolted.</p>	1	Nos	sbk_mdIstores	90 Days

## Technical Specification

1400	<p>INSTALLATION AND COMMISSIONING: - -----</p> <p>Installation &amp; Commissioning Charges for the entire setup including laying of cables, digging of hard / soft soil with re-filling, fixing of cameras and all other activities on turnkey basis (training to MDL employee).</p> <p>1. The system shall be designed by selecting high-grade components of proven quality and proper design of system electronics to ensure minimum downtime.</p>	1	AU	sbk_mdlstores	90 Days
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