



GARDEN REACH SHIPBUILDERS & ENGINEERS LTD.

गार्डन रीच शिपबिल्डर्स एण्ड इंजीनियर्स लिमिटेड

(A GOVERNMENT OF INDIA UNDERTAKING) / (भारत सरकार का प्रतिष्ठान)

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CIN / सी आई एन: L35111WB1934GOI007891

NOTICE INVITING TENDER (NIT) / निविदा आमंत्रण सूचना

Garden Reach Shipbuilders & Engineers Limited, a **leading Warship Builders and Engineering Product Company**, invites interested, reputed, resourceful and financially solvent contractors to submit **single stage two-part bids (Part I- Techno-Commercial & Part II- Price)** through NIC portal mode for the work package as per following bid document.

- i) M/s. Artson Engineering Limited.
- ii) M/s. Elegant Engineering.
- iii) M/s. Navahko Engineering Projects.
- iv) M/s. Patel Engineering Works (vizag).
- v) M/s. Vrinda Engineers Pvt. Ltd.

NIT SLA No / निविदा संख्या:	SCC/SM/NIC/LT/BLK ERECT/022/ET-3195		Date-02-05-2025
Job Title / कार्य का नाम	TURNKEY SUBCONTRACTING OF MEGA HULL BLOCK ERECTION (PART-1) OF MPVS, YD.NO.3050-57 & OTHER PROJECTS.		
SOR No:	MPVs/H/01, Rev.9a Dated: 19-APR-2025 (Annexure-1A)		
Tender issuing Dept. / बिभाग द्वारा जारी	Contract Cell (संविदा बिभाग)		
Cardinal Dates			
Date of Prebid Query Submission	05 May 2025	14:00 Hrs.	
Date of Prebid Meeting / बोलीपूर्व बैठक	06 May 2025	14:00 Hrs.	
Tender Submission Due Date निविदा जमा की अंतिम तिथी	12 May 2025	12:00 Hrs.	
Tender Opening Date (Part I) निविदा खुलने की तिथी	12 May 2025	14:00 Hrs.	
Contact Persons:			
Query regarding SOTR / Drawing or other technical Terms	Mr. Kaberi Talukdar, SM (RBD) E-mail: talukdar.kaberi@grse.co.in Mobile no.: + 91- 9163361888		
PRE-Bid Meeting	GRSE Bhavan, D Block CSB Conference Room 61, Garden Reach, West Bengal, Kolkata – 700024		

NIT TERMS & REQUIREMENTS

Sl. No.	Description	Reference	Requirement of NIT
1.	TENDER FEE	STAC	Not Applicable
2.	EARNEST MONEY DEPOSIT (EMD)	STAC	Not Applicable

Sl. No.	Description	Reference	Requirement of NIT																											
3.	DETERMINATION OF L1	Article – 15	L1 will be decided on Totality Basis through REVERSE AUCTION. The L1 Bidder has to submit break-up of the quoted Price for all the line items, failing which their offer will be rejected. GST has to be indicated separately in the break-up prices																											
4.	SECURITY DEPOSIT	Article – 22 (1)	5% of total Order value (inclusive of taxes) against individual Purchase Order and not against Rate Contract.																											
5.	PERFORMANCE GUARANTEE	Article – 22 (2)	10% of executed Order value (inclusive of taxes) against each Purchase Order.																											
6.	LIQUIDATED DAMAGES	Article – 22 (9)	0.5% per week, Max. 5% of unexecuted job																											
7.	TECHNICAL ELIGIBILITY CRITERIA	Article -1 & Annexure-1A	As per Clause-15 of SOTR (Annexure-1A) Attending Pre-Bid Meeting is mandatory in addition to Pre-qualification Criteria.																											
8.	FINANCIAL ELIGIBILITY CRITERIA	Article -2	Not Applicable																											
9.	VENDORS ON TENDER HOLIDAY / BLACKLISTED VENDORS	Article – 3	Submission of the self-certification as per relevant format (Annexure-5) is mandatory. On non-submission of the declaration the bidder may be treated as non-responsive, and their offer may be rejected.																											
10.	OFFER VALIDITY	Article – 4	180 days from date of opening of Techno-commercial offer.																											
11.	BOQ	Article-6 Annexure-1B	As detailed at Article-6 & Annexure-1B																											
12.	TENURE OF CONTRACT	Article – 8	02 years from date of placement of Purchase Order / LOA. However, the in case of GRSE requirement contract period may be extended for another 01 year with escalation as mentioned at SI-16 below.																											
13.	MOBILIZATION PERIOD	Article – 9(a)	15 days from the date of receipt of LOA /PO.																											
14.	JOB COMPLETION SCHEDULE / DELIVERY PERIOD	Article – 9(c) Clause- 16 of SOTR (Annexure-1A)	Job Completion Schedule <table><tr><th>Yard</th><th>Start date</th><th>End Date</th></tr><tr><td>3050</td><td>May-25</td><td>Nov-25</td></tr><tr><td>3051</td><td>May-25</td><td>Dec-25</td></tr><tr><td>3052</td><td>Jul-25</td><td>May-26</td></tr><tr><td>3053</td><td>Jul-25</td><td>Jul-26</td></tr><tr><td>3054</td><td>Apr-26</td><td>Nov-26</td></tr><tr><td>3055</td><td>Jul-26</td><td>Feb-27</td></tr><tr><td>3056</td><td>Sep-26</td><td>Apr-27</td></tr><tr><td>3057</td><td>Nov-26</td><td>Jun-27</td></tr></table>	Yard	Start date	End Date	3050	May-25	Nov-25	3051	May-25	Dec-25	3052	Jul-25	May-26	3053	Jul-25	Jul-26	3054	Apr-26	Nov-26	3055	Jul-26	Feb-27	3056	Sep-26	Apr-27	3057	Nov-26	Jun-27
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15.	GUARANTEE & WARRANTY / DEFECT LIABILITY PERIOD	Article – 10	12 (Twelve) Months from the date of Final Inspection and acceptance of the job.																											
16.	ESCALATION	Article – 12	Escalation shall not be applicable for initial period of 02 years. However, in case of extension due to GRSE requirement escalation of rates as per following will be applicable on the established rates. Escalated Rate shall be R+ [(0.7R) X {(B-A)/A}] R = Initial Established Rate																											

Sl. No.	Description	Reference	Requirement of NIT
			A = Average minimum daily labour wage rate as on start date of Rate Contract. B = Average minimum daily labour wage rate as on end date of Rate Contract.
17.	AWARDING JOBS TO MULTIPLE BIDDERS	Article – 16(a)	Separate bidder against each line item: Not Applicable
		Article – 16(b)	Ratio of Distribution: (a) GRSE wishes to engage multiple bidders for the tendered work subject to the bidders accepting the negotiated rate by L1. (b) The rate established with L1 bidder will be offered to other qualified bidders in bid ranking (ascending order i.e. L2, L3....) with respect to price offer. (c) GRSE intends to distribute the tendered quantity of job to 03 bidders ship wise in the ratio of 2:1:1. The ratio is indicative only and may vary as per actual requirement of the yards / ships and work orders shall be issued ship wise. (d) In case L1 rate is accepted by L2 bidder only, then the tendered quantity will be distributed among 02 bidders ship wise in the ratio of 5:3. (e) In case non-acceptance of established L1 rate by bidders other than L1, 100% of the job may be loaded in phases on L1 vendor based on performance. (f) In case of non-performance / poor performance by the engaged contractors or increase in quantity beyond the tender the distribution ratio may vary.
18.	INTEGRITY PACT & INDEPENDENT EXTERNAL MONITORS (IEM)	Article – 18	Applicable Submission of INTEGRITY PACT complying to Article-18 & 25 and ANNEXURE-11 of NIT is MANDATORY.

Sl. No.	Description	Reference	Requirement of NIT
19.	PAYMENT TERMS	Article – 22 (3) & Annexure-1C	Terms mentioned at Article-22(3) shall prevail over SOTR. a. <u>Payment Term for Supply of Items (as per Annexure-AA):</u> i. 90% payment (with full GST) will be paid within 30 days of Delivery of items of each category (as per line items' list at Annexure-AA) and supported by inspection notes issued by GRSE as per technical specifications and delivery challans at GRSE. ii. Balance 10% payment (with full GST) will be released after expiry of guarantee period /one-year post delivery, duly certified by the bill approving authority_ PL /Nominated Rep. GRSE-PMT. b. <u>Payment Term for Service Items:</u> 1) 90% payment (with full GST) will be paid within 30 days of receipt of bill (in 03 copies) duly certified by Bill Certifying Authority, PL /Nominated Rep. GRSE-PMT & supported with satisfactory Work Done Certificate. Recoverable from contractor, if any, is to be adjusted from 90% payment as per certification of Bill Certifying Authority- PL /Nominated Rep. GRSE-PMT. 2) 10% of the certified bill amount will either be retained from each bill as performance guarantee amount and the same will be released after expiry of guarantee period duly certified by the bill approving authority as per SOTR or be paid against submission of Performance Bank Guarantees of equivalent amounts valid till expiry of Guarantee period. Material Reconciliation Statement, if any is to be submitted to claim against this 10% balance payment. 3) Payment will be made on actual certification basis. 4) Payment to be claimed, against submission of BG of equivalent amount from any Scheduled Bank, other than co-operative bank for each ship and the same should be valid till the tenure of contract plus 03 months, after achieving the above-mentioned stages.
20.	QUALITY ASSURANCE / INSPECTION	STC-37 & Clause-8 of SOTR (Annexure-1A)	(a) Inspection (including stage inspection) will be carried out by GRSE (QA). Alignment fitment, welding & overall dimensional checks will be offered by sub-contractor to GRSE, who in turn will offer to DNV. Minor modification, if required, need to be carried out without extra cost. (b) Non-destructive testing of welds by dye penetration tests & radiographic tests shall be carried out as per NDT schedule and requirement of GRSE (QA)/ DNV.

Sl. No.	Description	Reference	Requirement of NIT
			(c) QA plan for inspection to be prepared by contractor in consultation with GRSE (QA) and to be approved by GRSE/ Customers' Rep./Class. (d) The contractor shall assist GRSE personnel and inspection/OEM authorities, if any, when they perform inspections. The contractor shall furnish a detailed report to GRSE of observed discrepancies and omissions in the work
21.	WORK DONE CERTIFICATE AUTHORITY	Article – 22 & Clause-20 & Annexure-D (L) of SOTR (Annexure-1A)	1. WORK DONE CERTIFICATE (WDC): i.WDC shall be issued by GRSE upon completion of each stage of progress. The WDC shall be issued, after scrutiny of all inspection reports and clearance by Class/Customer at various stages of inspections, for the activities associated with a particular stage payment. Competent Authority for WDC and bills will be respective Hull and Engineering Coordinators (officers) nominated by GRSE. ii.The Contractor shall submit original WDC along with their invoice to GRSE for release of stage payments. Failure and/or neglects to submit WDC shall be considered as non-performance on the part of the Contractor. 2. WORK DONE CERTIFICATE(WDC) FOR SYSTEM PIPEING a.WDC shall be certified & issued by PMT post completion of the following: i. Completion of PI at compartment level (50%) ii. OBPT at compartment level (30%) iii.II of entire system (10%) iv.Defect rectification after II (10%) b.WDC shall be issued after completion of each activity and payment shall be as per WDC. The Shipyards shall submit the relevant WDC associated with stage inspections during stage payments.
22.	BILL CERTIFYING AUTHORITY	Article – 22 &	PL /Nominated Rep. of GRSE-PMT
23.	NON-DISCLOSURE AGREEMENT	Annexure-12	• Applicable
24.	COLLECTION OF RAW MATERIAL AND DELIVERY OF COMPLETE MATERIALS	Article – 22	• Applicable
25.	MATERIAL RECONCILIATION	Article – 22	• Applicable
26.	SPECIAL TERMS & REQUIREMENTS OF THIS TENDER		1.Modification and Rework (a) Rework necessitated due to deviations/omissions by the Contractor shall be the liability of Contractor and cost of such rework shall be borne by Contractor. (b) Modification / rework charges at 120% of the applicable rate shall be payable in case of changes/ modification at the behest of GRSE, due to changes in drawings for already erected or fitted items and certified as per inspection stage in QAP. However,

Sl. No.	Description	Reference	Requirement of NIT
			this will have to be done under written instruction from GRSE and a mention to this effect is to be made in WDC. Any rework arising out of defective workmanship will not be paid for. [Note: For replacement of any portion through modification work, payment @120% rate will be paid for the modified/rework done. For cutting/dismantling of the earlier done work (before modification) will not be considered as rework/mod work]. (c) Inspection will be carried out by GRSE nominated officer before start of modification to ascertain the Scope of modification to be carried out in this Mega hull block erection stage. 2. Offers from vendors who have been issued notice / correspondence by GRSE for poor / non-performance within last 6 months from the date of publication of this tender may not be considered.

Manager (Contract) / प्रबन्धक (संबिदा)
Garden Reach Shipbuilders & Engineers Limited
 61, Garden Reach Road, Kolkata – 700024.
 email: mondal.sandip@grse.co.in

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INTRODUCTION

Garden Reach Shipbuilders & Engineers Limited, a leading Warship Builders and Engineering Product Company, invites interested, reputed, resourceful and financially solvent contractors to submit **Single Stage two-part bids (Part I: Techno-Commercial & Part II- Price Bid)** through e-tendering mode for the work of **“TURNKEY SUBCONTRACTING OF MEGA HULL BLOCK ERECTION (PART-1) OF MPVS, YD.NO.3050-57 & OTHER PROJECTS”**.

Detailed Scope of work is mentioned in SOTR (Annexure-1A).

Location: The work is to be carried out at any Unit of GRSE located in and around Kolkata.

ARTICLE/अनुच्छेद 1. **TECHNICAL ELIGIBILITY CRITERIA तकनीकी मापदंड**

- i. Bidder should comply to Eligibility Criteria mentioned in SOTRs. **(Annexure-1A)**.
- ii. Format for Technical Eligibility Criteria in this regard has been attached to this document as **Annexure - 3**. The format must be filled up and to be uploaded with the Techno-commercial Bid.

ARTICLE/अनुच्छेद 2. **FINANCIAL ELIGIBILITY CRITERIA वित्तीय मापदंड**

- i. Not Applicable

ARTICLE/अनुच्छेद 3. **VENDORS ON TENDER HOLIDAY / BLACKLISTED VENDORS**

- i. The bidder should give self-certification (as per **Annexure - 5**) that they have neither been Blacklisted nor have received any tender holiday from any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations during last 03 (three) years ending on the date of submission of the Tended by the bidder. The bidder has to submit self-certification for the same along with the techno-commercial offer. GRSE reserves the right to independently verify the same. In case violation of declaration is detected at any stage of tender process and during currency of contract, the order will be terminated.
- ii. If any bidder has been black listed by any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations, then the bidder is not eligible to participate in this tender. If any discrepancy is detected at any stage of the tender, then the offer submitted by the bidder / contract awarded to the bidder will be cancelled and EMD/SD shall be forfeited and appropriate action will be taken in accordance with the vendor policy of GRSE.
- iii. If any bidder has been put on Tender Holiday by any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations, then this fact must be clearly stated and it may not necessarily be a cause for disqualifying them.
- iv. In case of non-submission of the self-certification document as per relevant format referred at SI- (i) above, the bidder will be treated as non-responsive and their offer will be rejected.

ARTICLE/अनुच्छेद 4. **OFFER VALIDITY प्रस्ताव की वैधता**

- i. Offer should be valid for period as stipulated in NIT Terms & Requirements from the date of opening of Part-I bid i.e. Techno-commercial bid. Under exceptional circumstances GRSE may request for extension of price validity, beyond the stipulated period against valid reason.

ARTICLE/अनुच्छेद 5. **OPENING OF BIDS निविदा खुलना**

Part I (techno-commercial) bid will be opened on the date declared in NIT.

Part II bid will be opened post techno-commercial evaluation by GRSE. Price bid of only those who qualify techno-commercially will be opened. Opening date of Price Bid will be intimated accordingly to all qualified bidders. Disqualified bidders, either during technical assessment or commercial discussion will also be intimated about their non-consideration for farther processing.

ARTICLE/अनुच्छेद 6. **BOQ बी ओ क्यू**

- (a) BOQ for the work is detailed at **Annexure-1B**.

(b) Methodology of quotation / BoQ mentioned at **Annexure-1B** shall prevail over methodology of quotation / BoQ mentioned at any other part of the document including SOTR / SOR.

Unpriced copy of the Price breakup indicating the GST SAC/HSN Code & GST percentage is to be uploaded along with the Techno-commercial offer (Part-I).

The bid shall not be considered if Price is indicated in any part of Techno-commercial offer (Part-I).

ARTICLE/अनुच्छेद 7. JOB EXECUTION कार्य निष्पादन

Job is to be carried out strictly as per SOTR, Drawings and GRSE requirement. In case of doubt, instructions of the Engineer-in-charge/ PL / their authorised representative is to be followed.

ARTICLE/अनुच्छेद 8. TENURE OF CONTRACT

The tenure of the contract shall be as specified in the NIT Terms & Requirements.

ARTICLE/अनुच्छेद 9. JOB EXECUTION SCHEDULE कार्य निष्पादन सूची

- (a) **Mobilization Period / लामबंदी अवधी** shall be equal to number of days (as specified in the NIT Terms & Requirements) from date of LOA/PO.
- (b) **Job Starting Date / कार्य आरम्भ तिथि** Job is to be started immediately after mobilization as per direction of WDC Authority / Bill Certifying Authority / their authorized representatives.
- (c) **Job Completion Schedule / Delivery Period** -The job is required to be completed within time limit as specified at NIT Terms & Requirements.

ARTICLE/अनुच्छेद 10. GUARANTEE & WARRANTY गारंटी एवं वारंटी

Duration of Guarantee Period / Defect Liability Period shall be as per requirement mentioned at NIT Terms & Requirements and shall commence from the date mentioned in the Completion Certificate.

Guarantee Period / Defect Liability Period shall be deemed to be over on completion of the specified duration subject to successful and satisfactory liquidation of defects notified within the pendency of the Guarantee Period / Defect Liability Period.

In case of pending unresolved defects, the Guarantee Period / Defect Liability Period shall stand automatically extended till satisfactory liquidation of defects.

ARTICLE/अनुच्छेद 11. PRICE मूल

- (a) The rates QUOTED/ACCEPTED by the bidder, shall be final and will remain **firm and fixed for the entire contractual period or till completion of ordered work.**
- (b) The quoted price should also include all statutory cost as mentioned/ indicated in SOTR.
- (c) GST is to be indicated separately in the Price Breakup.

ARTICLE/अनुच्छेद 12. ESCALATION मूल्य वृद्धि

- (a) **NO ESCALATION** of price during the contractual period and/or till completion of complete work (except change in GST Rate, if notified by Competent Authority) shall be applicable.
- (b) **Escalated Rate** in case of extension of validity period shall be as mentioned in NIT Terms & Requirements.

ARTICLE/अनुच्छेद 13. UNREASONABLE QUOTES अतर्कसंगत भाव

- (a) In case the price of L-1 Bidder is found to quote unreasonably low and/or express desires to withdraw from the tender then such bid will be cancelled and EMD will be forfeited and punitive action will be taken in line with the provision as per GRSE Vendor policy.
- (b) However, in case the L1 Bidder agrees to take-up the job with such unreasonable low quote, lower by 30% or more than estimate and also if the difference in price between L1 & L2 is 30% or more, then the quoted price to be analyzed w.r.t. tender requirement and if the L1 bidder fails to justify their quoted rate, the obtained L1 quote may be liable for rejection.

- (c) If justification is acceptable to GRSE, then Bidder have to submit a declaration to execute the job till satisfactory completion of entire contract. In case of breach of contract, GRSE shall reserve the right to impose Tender Holiday for a period of at least 03 years.

ARTICLE/अनुच्छेद 14. CONDITIONAL OFFER सशर्त प्रस्ताव

Conditional offers w.r.t. SOTR (Annexure 1) will not be accepted. However, in case the bidder wishes to deviate from any/ some commercial Terms & conditions, then separate deviation statement has to be uploaded along with Part-I bid.

However, GRSE reserves the right to accept / reject the deviations / bid with deviations after giving reasonable opportunity to the Bidder.

If the deviation is acceptable to GRSE, then suitable loading factor for such deviation on the price quoted by the bidder will be formulated during technical/commercial negotiation and the factor will be loaded on the price quoted by the bidder for determination of L1 price.

ARTICLE/अनुच्छेद 15. DETERMINATION OF L1 एल-1 का चयन

- (a) **L1 bidder will be decided as per criteria mentioned at SI-3 of NIT Terms & Requirements.**
- (b) However, in case of loading the price due to any deviation against the tender, GRSE will evaluate L1 bidder offline, considering suitable loading factor for such deviation on the quoted price as mentioned in Article-14 above.

ARTICLE/अनुच्छेद 16. AWARDING JOBS TO MULTIPLE BIDDERS बहुल बिडर के लिए ठेका कार्य

- (a) Separate bidder may be engaged against each line item mentioned in BOQ based on L1 determination (as mentioned at Article-15 above) as specified at **SI-17 of NIT Terms & Requirements.**
- (b) GRSE wishes to engage multiple bidders for the tendered work subject to the bidders accepting the rate quoted / agreed by L1 Bidder. The ratio of distribution shall be as indicated in **SI-17 of NIT Terms & Requirements.**

ARTICLE/अनुच्छेद 17. MICRO & SMALL ENTERPRISES सूछम एवं छोटे उद्योग

- a) The 'Public Procurement Policy for Micro & Small Enterprises (MSEs) Order, 2012 and subsequent amendments / guidelines / press publications / circulars to the Order, as issued by the Ministry of MSME, shall be applicable as on the date of opening of the price bids.
- b) The bidders are advised to check the website of the Ministry of MSME for details of the amendments / circulars issued by the Ministry of MSME.
- c) Class A and B items are to be considered as non-divisible within the same class of ships and tender is to be awarded on a single bidder on totality basis unless there is any specific clause in the tender enquiry to indicate divisibility of the tendered quantity.

ARTICLE/अनुच्छेद 18. Integrity Pact & Independent External Monitors (IEM):

- (a) **Integrity Pact (समग्रता अनुबंध)** pact essentially envisages the agreement between prospective vendors /Bidders & buyers committing the person/officials of both the parties not to exercise any corrupt influence on any aspects of the contract. Only those vendors/bidders who enter into such an integrity pact with the buyer would be competent to participate in the bid. The format of integrity Pact is enclosed with tender documents. Refer Annexure - 10. The "Integrity pact on Govt. issued Stamp paper of Rs. 100 duly filled as per enclosed format to be submitted in original. Bidders to ensure that every page of IP is ink signed with company seal/stamp in every page. [Please refer guideline for IP in STAC (SI.-1) in GRSE website]
- (b) Either or both of the following Independent External Monitors will have the power to access the entire project document and examine any complaints received by him. In case of any change in IEMs, it will be informed accordingly.
- (c) The communication details of the IEMs are as follows: -

Shri Lov Verma, IAS (Retd.) Email: lov_56@yahoo.com	Shri Debashis Bandyopadhyay Ex-Director (HR), BHEL Email: debashis9999@gmail.com
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ARTICLE/अनुच्छेद 19. **INSTRUCTION TO THE BIDDERS बिडर हेतु अनुदेश**

- i. Before submitting a bid, bidders are expected to examine the Bid Documents carefully. If they desire, **may visit the work front**, fully inform themselves of existing conditions and limitations including all items described in the Bid Documents. No consideration will be granted for any alleged misunderstanding or the materials to be furnished, work to be performed or actual considerations to complete all work and comply with conditions specified in the Bid Document.
- ii. Any qualified deficiency, errors, discrepancies, omissions, ambiguities or conflicts in the Bid Documents, or there be any doubts as to the meaning of a provision or requirement, the same shall immediately brought to notice of GRSE Tendering Dept. in writing not less than 07 days prior to bid closing date.
- iii. It is understood that in receiving this bid, GRSE assumes no obligation to enter into a contract for the WORK covered by this bid request. GRSE reserves the right to reject any and all unqualified proposals or waive irregularities therein. GRSE reserves the right to evaluate each and every proposal and accept the whole or any part of the tender and the Tenderer shall be bound to perform the same at the rates quoted.

GRSE also reserves the right to reject any and all bids and accept the bid, which in its opinion, appears to be most advantageous to GRSE. Receipt and review of this Bid Request constitutes an agreement of confidentiality between GRSE and each of the contracting Firms preparing its Bid. GRSE reserves the right to change the form of this request to Bids, or make clarifications thereto, within a reasonable time before date of submission of Bids.
- iv. General Contractors assume all safety related responsibilities for the site and will furnish and maintain its own safety program for itself and its subcontractors. Contractor are bound to comply with all applicable Environmental, Health & Safety rules, regulations, policies, procedures and guidelines when performing work in the facility or site.
- v. Bidders objecting on any grounds to any bid specification or legal requirements imposed by these bidding documents shall provide written notice to GRSE within 10 calendar day from the day bid document was made available to public. Failure of a bidder to object in the manner set forth in this paragraph shall constitute and irrevocable waiver of any such objection.
- vi. Job is to be carried out as per SOTR and instruction of the Engineer in-charge.
- vii. Any Drawings or technical information attached / provided with this NIT is the Intellectual Property of the Company and will be governed by the specific Acts applicable thereto.
- viii. Post submission of Tender, such drawings and technical information are to be physically returned. Also, all soft copies are to be destroyed and a self-certification to be submitted during CNC, failing which the processing of bid will not be taken further.
- ix. Contractors are responsible to clean up the area of work from all sorts of debris every 3 days. In case of non-compliance to the same, GRSE reserves the right to perform the cleaning activity and charge cost for the same on the contractor with additional penalty of Rs 5000/- per instance.
- x. Bidder has to declare, in what capacity he is participating in the tender viz PSU, Limited Co, Pvt. Ltd. Co., Sole Proprietorship Organization, Partnership firm, Joint Venture / Consortium [Ref. STAC (Annexure - 2), Clause: 10], etc. Supporting documents (scanned copy) confirming such status to be uploaded as attachment to Part-I bid.
- xi. A Bidder is allowed to submit only one Bid under any capacity / status.
- xii. Difficulty in submitting the bid:
 - a) In case of any query / difficulty in understanding of SOTR or other technical Terms the same may be got clarified from SOTR authority prior submission of offer.

- b) Any query/difficulty in understanding of Commercial Terms may be got clarified from Mr. Sandip Mondal, Manager (Contract), GRSE (Main Unit) e-mail: mondal.sandip@grse.co.in Mobile no. +91- 8584888195.

xiii. **E-mail Address of Vendor for communication संचार हेतु ई. मेल पत:** Vendor has to provide e-mail address to enable faster communication.

ARTICLE/अनुच्छेद 20. e-BID INSTRUCTION ई बिड के अनुदेश

- a) Bidders can view / download Part-I (Techno-Commercial) bid documents along with all attachments on portal <https://eprocuregrse.co.in>. Bidders need to fill up the downloaded documents including the Acceptance Matrices and Declarations as per instruction and upload the same during bid submission as per Bid criteria. Non-acceptance of any techno-commercial criteria is discouraged.
- b) Detailed price breakup as per BoQ is to be uploaded with price offer (Part-II). No other attachment to the price bid except as mentioned will be reckoned.
- c) **If price is indicated in any document pertaining to Part-I of the bid the Offer shall be summarily rejected.**
- d) In case the bidder does not quote his rate for any item(s), it will be presumed that the bidder has included the cost of that/those item(s) in the rates of other items and the rate for such item(s) shall be considered as Zero (0) and the tender shall be evaluated accordingly and the work need to be executed by the successful bidder accordingly.
- e) The amendments / clarifications to the bid document, if any, will be posted on portal only.
- f) It will be the bidder's responsibility to check the status of their Bid on-line regularly after the opening of bid till award of Contract.

g) AMENDMENT OF TENDER DOCUMENT

- (i) Before the deadline for submission of tenders, the Tender Document may be modified by GRSE Ltd. by issue of addenda/corrigendum. Issue of addenda / corrigenda will however be stopped 7 days prior to the deadline for submission of tenders as finally stipulated.
- (ii) Addendum/corrigendum, if any, will be hosted on website / e procurement portal and shall become a part of the tender document. All Tenderers are advised to see the website for addendum/ corrigendum to the tender document which may be uploaded up to 7 days prior to the deadline for submission of Tender as finally stipulated.
- (iii) To give prospective Tenderers reasonable time in which to take the addenda/ corrigenda into account in preparing their tenders, extension of the deadline for submission of tenders may be given as considered necessary by GRSE.

h) PREVALANCE OF VERSION / संस्करण की व्यापकता:

In case of any discrepancy between English and Hindi version **the English Version shall prevail.** / अंग्रेजी और हिंदी संस्करण के बीच किसी भी विसंगति के मामले में **अंग्रेजी संस्करण मान्य होगा।**

ARTICLE/अनुच्छेद 21. BID REJECTION CRITERIA बिड अस्वीकृति के मापदंड

Following bid rejection criteria may render the bids liable for rejection:

- Bidder indicating price offer in any form in the Part-I bid i.e techno-commercial bid.
- Bidder's failure to furnish sufficient or complete details for evaluation of the bids within the given period which may range in between two to three weeks depending on the deficiencies noticed in the drawings / technical data which shall not however conflict with validity period.
- Incomplete / misleading / ambiguous bid in the considered opinion of the Technical Negotiation Committee (TNC) of GRSE.
- Bid with technical requirements and/or terms not acceptable to GRSE / Customers / External agency nominated, as applicable.
- Bid received without qualification documents, where required as per the tender.

- vi. Bid not meeting the pre-qualification parameters / criteria stipulated in the Tender Enquiry.
- vii. Bid with validity expiry date shorter than that specified in the Tender Enquiry.
- viii. EMD validity period is shorter than Bid Validity Period / as specified in the tender enquiry.
- ix. Bidders who have not agreed for the fixed price till the validity of the tender or have quoted the variable price.
- x. Bidder not agreeing for furnishing of the required Security Deposit (SD).
- xi. Bidders not submitting Original instrument of EMD within 05 days from opening of Part I bid.
- xii. Bidder not submitting Integrity Pact as per requirement of the tender and in reference to ARTICLE/अनुच्छेद 18. of NIT.
- xiii. Bidder submitted false / incorrect declaration and/or documents etc.
- xiv. Instances of Poor / Non-performance by bidder in earlier Contracts with GRSE within the past three months from the date of publication of the tender.

ARTICLE/अनुच्छेद 22. POST AWARD APPLICABLE CLAUSES ठेका जारी करने के पश्चात लागू उपधारा

1. **Security Deposit प्रतिभूति जमा-** Non-interest-bearing security deposit amounting to percentage of total Rate Contract order value (inclusive of taxes) as specified at NIT Terms & Requirements is to be deposited in the manner elaborated in STAC (Annexure - 2).

Security Deposit shall be released on completion of Rate Contract Tenure subject to satisfactory execution of entrusted jobs through LOA / PO against the Rate Contract.

2. **Performance Guarantee:** Non-interest-bearing Performance Guarantee deposit amounting to percentage of total executed order value (inclusive of taxes) as specified at NIT Terms & Requirements is to be deposited in the manner elaborated in STAC. The same shall be released after successful completion of Guarantee Period / Defect Liability Period and satisfactory liquidation of defects.

3. **Payment Terms भुगतान की शर्तें:**

3.1 The contractor shall submit the R/A bills in triplicate along with all necessary / required supporting documents, measurement sheet etc.

3.2 **Percentage** of the value of actual work done as specified at NIT Terms & Requirements will be paid progressively against R/A bill at a frequency of once every month during construction. The amount paid at every month shall be evaluated on the basis of actual completed works done during the previous month, against the BOQ item and Unit Rates, on certification of quantum and quality of work by Engineer / Engineer's Representative.

3.3 **Remaining Percentage** of the certified value of work shall be released on: -

Completion of the Guarantee period / defect liability period subject to satisfactory liquidation of defects duly certified by Bill Certifying Authority.

OR

Submission of performance Bank Guarantee of equivalent amount valid till expiry of Guarantee period.

For release of this remaining percentage i.e. retention money (if any) either after guarantee period or on submission of PBG; work done certificate shall not be required. For releasing PBG after expiry of guarantee period, the PBG release application to be submitted to Contract Cell duly certified by Bill Certifying Authority.

- 3.4 Moreover, release of payment shall be subjected to payment of wages to engaged workforce (complying to minimum wages (as notified by Office of Chief Labour Commissioner, Govt. of India time to time), clearance of ESI / P.F and other labour oriented mandatory liabilities of the Contractor. The following shall be applicable in this regard:

(i) Payment of Wages to engaged employees / workmen should be made through individual Bank A/C on monthly basis. Cash payment is not permissible.

(ii) Completion of PF-UAN seeding and activation of all of their employees / workmen as UAN would be the key field in ECR generation.

(iii) Compliance to Contract Labour Act requirements as per Appendix A, B & C as uploaded in GRSE website in support of this tender as indicated in NIT.

3.5 The Bill is to be accompanied with a declaration of Contractor in regard to compliance of all Statutory Dues including PF, ESI and other labour oriented mandatory liabilities of the Contractor. The declaration is to be submitted in letter head of the Contractor.
In case the declaration emerges to be false as on date of declaration, stringent action (including but not limited to Tender Holiday & Suspension of Business) may be initiated by GRSE.
In case of non-submission of the declaration, the bill shall be treated as incomplete and shall be rejected.

4. **Work Done Certificate (W.D.C.) कार्य पूर्ति प्रमाण-पत्र (डबल्यू.डी.सी)**

Work Done Certificate will be issued by the Authority as indicated at SI-22 of NIT TERMS & REQUIREMENTS. W.D.C. is to include whether work has been completed as per delivery schedule or with delay [in days/weeks specified therein]. Any recovery towards usage of GRSE resources is also to be indicated.

5. **Bill Certifying Authority बिल प्रमाणन प्राधीकर:**

As mentioned at NIT Terms & Requirements.

6. **Bill Submission बिल प्रस्तुति:**

On obtaining WDC, bills to be raised as Progressive RA Bills. Bills are to be submitted along with supporting documents (Work Done Certificate etc.) at the Bill Receiving Counters located at the respective units of Company. Bill is to be submitted (in 03 copies) in sealed envelope super-scribing on the envelope the Purchase Order No., Vendor code, Bill / Invoice No., Name of person /employee to whom bill is addressed, for processing. The Name of the person to be mentioned on sealed envelope will be the Bill certifying officer.

Note: Transaction fee of Rs. 500.00 for first return & Rs. 1000.00 for subsequent return of bill with inappropriate documents will be charged

7. **Collection of Raw Material and Delivery of Complete materials (अनिर्मित सामग्री संग्रह एवं परिवर्तित सम्पूर्ण सामग्री की सुपुर्दगी)**

- (a) Raw materials will be required to be collected from GRSE against submission of Material Guarantee Deposit on form of Demand Draft / Bank Guarantee (as per GRSE format) amounting to value as specified at **NIT Terms & Conditions** OR the equivalent value of material as that will remain in the custody of the firm during the execution of the work ONLY in case of materials taken outside GRSE premises. Transportation of materials from GRSE to sub-contractor's premises and transportation of finished materials from Sub-contractor's premises up to GRSE are the responsibility of the contractor.
- (b) Indemnity Bond affixing the Common Seal from the registered sub-contractors can be accepted but it should be backed by Insurance Coverage with GRSE as the beneficiary on case-to-case basis with due approval of the management. GRSE registered vendor who are interested to submit Indemnity Bond backed by Insurance coverage should indicate clearly in their offer.

8. **Material Reconciliation Statement (MRS) (सामग्री मिलान)**

Vendors are to furnish the material reconciliation statement (running MRS) for all free issue materials, ONLY in case of materials taken outside GRSE premises against each consignment immediately on delivery of the same but not later than 30 days of delivery, showing details of raw materials received and material returned or as specified in at **NIT Terms & Conditions**. Any excess consumption of material on account of wastage / damage / re-work attributable to the Contractor, shall be liability of the Contractor and shall be recovered from the receivables of the Contractor from GRSE or otherwise.

In case received material is less than issued material the cost of the material not received shall be recovered from the Contractor as per terms specified at **NIT Terms & Conditions**.

The MRS should be submitted with documentary evidence of material issued & returned duly accepted by competent authority of GRSE and as per the GRSE format and filled up check list for MRS.

9. **Liquidated Damages / Penalty**

The vendor will be liable to pay minimum Liquidated Damages @ ½ % per week or part thereof on the undelivered work subject to a maximum of 5 % of the value of the order for delayed part. The amount of L.D. may be adjusted or set-off against any sum payable to the Contractor under this or any other Contract with GRSE Ltd.

10. **Risk Purchase जोखिम खरीद**

In case the progress of work is not satisfactory and the contractor fails to maintain the schedule, GRSE reserves the right to get the work done by alternative source at the risk and cost of sub-contractor.

GRSE shall be at liberty to purchase/obtain the service from the alternative source as it deems fit, to make good such default and or in the event of the contract being terminated, the balance of the remaining service to be delivered there under. Any excess over the job price / service rates, paid and incurred by GRSE, as the case may be, over the contract price shall be recoverable from the firm. To make good the recoverable excess amount paid, GRSE shall be at liberty to invoke Bank Guarantee and/or with other available dues of the firm.

11. **Time of completion**

Time of completion has to be considered as essence of the contract and cannot be extended for any reason whatsoever. However, in an unlikely situation beyond the control of the contractor, application for extension of due time shall be submitted by the Contractor, 01 Month in advance with proper justification duly endorsed by Engineer In-charge / PL of GRSE with commensurate recording of events in the "Hindrance Register". Please note LD will be levied for the unexecuted portion for such time extension.

12. **Contractor's Safety Personnel (संविदाकार के बचाव कर्मचारी)**

One fully specialist and certified Safety Personnel has to be posted at the site during progress of work. The responsibility of the safety personnel is to supervise and monitor the site safety obligations of all work places and to comply all laid down Fire & Safety Rules of GRSE. He also ensures all workmen working under the sub-contractor at site are made aware of and comply with all the safety norms.

13. **OWNERSHIP:** The Free Issue materials and the vessel to be constructed by the Contractor on behalf of GRSE shall at all times remain the exclusive property of GRSE and the Contractor under any circumstances shall not be entitled to nor shall have the right to create mortgage, charge, lien or other encumbrance of any nature whatsoever over and in respect of the said free use materials and the vessel to be constructed.

14. **PROJECT MONITORING TEAM:** A Project Monitoring Team from GRSE will be constituted for monitoring the progress of work and receipt & supply of materials under GRSE scope. Office space (one AC Container on Jetty with computer, printer facility etc.) for day-to-day functioning is to be provided by contractor.

15. **WEIGHT RECORDING:** Weight recording of all the hull units/equipment/outfit items/material taken on board is to be carried out by the Contractor. If the weights are not indicated on the equipment tally box or document, then such equipment is to be weighed on a weighing scale before taking on board. This weight will be considered for weight monitoring and control. The record of weight monitoring will be included in the progress reports to be submitted by the Contractor to GRSE and the same will be reviewed by GRSE PMT during progress reviews.

ARTICLE/अनुच्छेद 23. ANNEXURES FORMING PART OF THIS e-TENDER ई-निविदा की संलग्नक प्रपत्र

Please find all enclosures as indicated below in GRSE website by clicking the link <http://www.grse.in/index.php/tender.html> and then click Enclosure Related to tenders of Sub-Contracting Activities

Annexure/ संलग्नक	Description /
1.	A. Statement of Technical Requirement (SOTR) & Drawings B. Bill of Quantities (BOQ) C. Payment Terms
2.	GRSE Standard Terms and Conditions (STAC)
3.	Format for Technical Eligibility Criteria
4.	Format for Financial Eligibility Criteria
5.	Self-Certification for Blacklisting / Tender Holiday
6.	Format for – Disclosure by Contractor of existing work load
7.	Format for – Disclosure by Contractor of proposed execution / deployment plan of this tendered job
8.	Confirmation by Bidder & Checklist for Bid Submission
9.	Check List for Bill Submission – For Service Contracts

10.	Format for - Integrity Pact To be submitted in Non-Judicial stamp paper of value not less than Rs.100/-.
11.	Format for – Non-Disclosure Agreement (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
12.	Format for – Bank Guarantee Format for EMD (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
13.	Fire & Safety Guidelines (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
14.	Special condition of contract (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
15.	Contractors Responsibility (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
16.	General Requirement (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
17.	Check List for Bill submission (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
18.	PF, ESI declaration form (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
19.	Format for - Bank Guarantee Format for SD (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
20.	Format for - Bank Guarantee Format for PBG (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)
21.	Guide line for Bank Guarantee (please refer www.grse.in →Tender→Enclosures Related to tenders of Sub-Contracting Activities)

ARTICLE/अनुच्छेद 24. DOCUMENTS TO BE UPLOADED अपलोड हेतु दस्तावेज

a. Self-Attested documents are to be scanned and uploaded with Part I of e-bid / ई-बिड के भाग-1 के साथ स्कैन एवं अपलोड हेतु स्वअभिप्रामाणित दस्तावेज

b. NON-SUBMISSION / INCOMPLETE SUBMISSION IN RESPECT TO BELOW-MENTIONED DOCUMENTS MAY LEAD TO REJECTION OF BID

Sl. No.	Description
1.	DD/PO or MSE/NSIC Exemption certificate towards tender fee
2.	DD/PO /BG or MSE/NSIC Exemption certificate towards EMD
3.	Integrity Pact
4.	Registration Certificate of the Company with ROC / Trade License
5.	PAN, TAN, GST
6.	Copies of registration with PF, ESI authorities.
7.	Government e-Market Place (GeM) registration certificate with Unique GeM Seller ID
8.	The Registration Number allotted to MSME's by Trades Receivable e-Discounting System (TReDS). In absence of the same, offers of MSMEs may be liable to rejection.
9.	Partnership Deed / Memorandum and the Article of Association of the firm confirming partners and lead partner (If applicable)
10.	Joint Venture Agreement / Memorandum of Understanding with Power of Attorney in favour of lead member. (If applicable)
11.	Acceptance Matrix for NIT
12.	Acceptance Matrix for Standard Terms & Conditions
13.	Acceptance Matrix for SoTR
14.	Format for Technical Eligibility Criteria
15.	Format for Financial Eligibility Criteria
16.	Audited/Certified Annual Accounts and Annual Report for immediate last three (03) financial years ending on 31st Mar'21 in support of Financial Eligibility.
17.	Self-Certification for Blacklisting / Tender Holiday
18.	Disclosure by Contractor of existing work load

Sl. No.	Description
19.	Disclosure by Contractor of proposed execution plan including proposed deployment of resources of this tendered job
20.	Work execution plan / schedule in MS Project clearly indicating dependencies
21.	Confirmation by Bidder & Checklist for Bid Submission
NON-SUBMISSION / INCOMPLETE SUBMISSION IN RESPECT TO ABOVE MAY LEAD TO REJECTION OF BID	

The Bidders has to submit ink signed hard copy of all above documents within 05 days from opening of Part I bid.

The Bidders should mention the following:

- "Unique Seller ID" allotted by GeM (Government e-Market Place) and
- The Registration Number allotted by Trades Receivable e-Discounting System (TReDS). The TReDS Registration Number is only applicable for MSME firms.

The Bidders not registered for Sl. No. 7 & 8 above should apply for registration of the following facilities in portals as per directives of the Government of India.

- GeM (Government e-Market Place) → website: <https://gem.gov.in>
- TReDS (Trades Receivable e-Discounting System) → website: www.invoicemart.com

Vendors Registered with GRSE are not required to upload documents at Sl. No. 4, 5 & 6 above, and are instead required to mention the Vendor Code allotted by GRSE.

ARTICLE/अनुच्छेद 25. DOCUMENTS IN PHYSICAL FORM TO SUBMIT वास्तविक प्रपत्र जो जमा करने हैं

1. **DOCUMENTS IN PHYSICAL SUBMISSION**

1	EMD Instrument	Within 03 days from opening of Part I bid
2	Integrity Pact & Non-Disclosure Agreement (as applicable)	Within 03 days from opening of Part I bid
NOTE:	If instruments submitted through demand draft, the same to be drawn in favor of	GARDEN REACH SHIPBUILDERS & ENGINEERS LIMITED
	The demand drafts should be payable at	KOLKATA
	Above mentioned original Negotiable Instruments as stipulated, to reach the office of General Manager (CC, HP & IP), Commercial Department, 61, Garden Reach Road, Kolkata-700 024 within stipulated period as indicated above in a sealed envelope with tender number and job duly superscripting on it (preferably through speed post /courier service).	
<u>NON-SUBMISSION / INCOMPLETE SUBMISSION IN RESPECT TO ABOVE MAY LEAD TO REJECTION OF BID</u>		

ARTICLE/अनुच्छेद 26. SUBMISSION OF BID बिड की पेशी

- Last date of submission of Bid / Date of opening of bid is indicated in Tender Document. Tender is liable to be rejected if all the requisite documents are not enclosed with the Part I, Techno-Commercial offer. However, if the scanned copies are not uploaded with Part-I bid, then the original copies are to be submitted within 05 days from opening of Part I bid.
- Date of opening of Part II offer i.e. Price Bid will be notified to all Techno-Commercially qualified bidders in due course after conclusion of TNC/CNC meetings and acceptance of Techno-Commercial offer. After opening of e-Price bids, the techno-commercially qualified bidders can view the System Generated Price Comparison Sheet from their own portal.
- GRSE reserves the right to accept / reject any Tender in full or in part without assigning any reason.
- Acceptance Format Matrix should be filled up and attached with techno-commercial bid as marks of acceptance of NIT/SOTR/STAC. In case of non-receipt of filled in STACs acceptance format matrix, it would be presumed that you have accepted all our terms& conditions as per GRSE tender until & unless deviation is specially mentioned in offer.

ARTICLE/अनुच्छेद 27. PRE-BID MEETING बोलीपूर्व बैठक

- i. Bidders are requested to forward their queries over email to the e-mail address of Contact Person mentioned at Page-1 and to mondal.sandip@grse.co.in within date & time as mentioned under Cardinal Dates.
- ii. Pre-bid meeting shall be held at venue and on time as mentioned in at Page-1.
- iii. **Attending Pre-Bid meeting is mandatory in addition to Technical pre-qualification criteria.**
- iv. The dates & time related to Prebid Meeting mentioned at Page-1 shall prevail over SOTR.
- v. Pre-bid meeting shall be held over Video Conference at the same time and date and the link for the VC is as follows:



GARDEN REACH SHIPBUILDERS & ENGINEERS LTD.

गार्डन रीच शिपबिल्डर्स एण्ड इंजीनियर्स लिमिटेड

(A GOVERNMENT OF INDIA UNDERTAKING) / (भारत सरकार का प्रतिष्ठान)

Address: 61, Garden Reach Road, Kolkata-700 024 **61, गार्डन रीच रोड, कोलकाता-700 024**

Phone/दूरभाष: (033) 2469-8140 to 8143, **FAXफैक्स:** (033) 2469-8144

Web siteवेब: www.grse.in, **E-Mailई मेल:** Gupta.Manoj@grse.co.in

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ANNEXURE-1A: STATEMENT OF TECHNICAL REQUIREMENTS (SoTR)

NIT SLA No / निविदा संख्या:	SCC/SM/NIC/LT/BLK ERECT/022/ET-000
Job Title / कार्य का नाम	TURNKEY SUBCONTRACTING OF MEGA HULL BLOCK ERECTION (PART-1) OF MPVS, YD.NO.3050-57 & OTHER PROJECTS.
SOR No:	MPVs/H/01, Rev.9a Dated: 19-APR-2025 (Annexure-1A)
Tender issuing Dept. / बिभाग द्वारा जारी	Contract Cell (संविदा बिभाग)

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1. INTENT:

The general conditions and requirements specified in this SOTR is intended to Turnkey subcontracting of Mega Hull Block of MPVs in continuation with the fabrication job being undertaken by the vendors cleared for Block Fabrication. The job includes erection of hull units for 1500 T (approx. per ship) steel mega hull block, outfitting and piping along with supply of indicated outfit items for 08 Multipurpose vessels Yard 3050-57. Blocks and Units are fabricated from steel Grade-A and AH-36 grade. Units/Blocks are planned to be erected at RBD, GRSE.

2. BUILD SPECIFICATIONS

2.1 All activities under the scope of the Contractor shall be undertaken in line with Build Specifications. Build Specification clauses shall be complied by the Contractor during construction and trials.

2.2 Build Specifications can be obtained by prospective bidder after submitting the Non-Disclosure Agreement to GRSE.

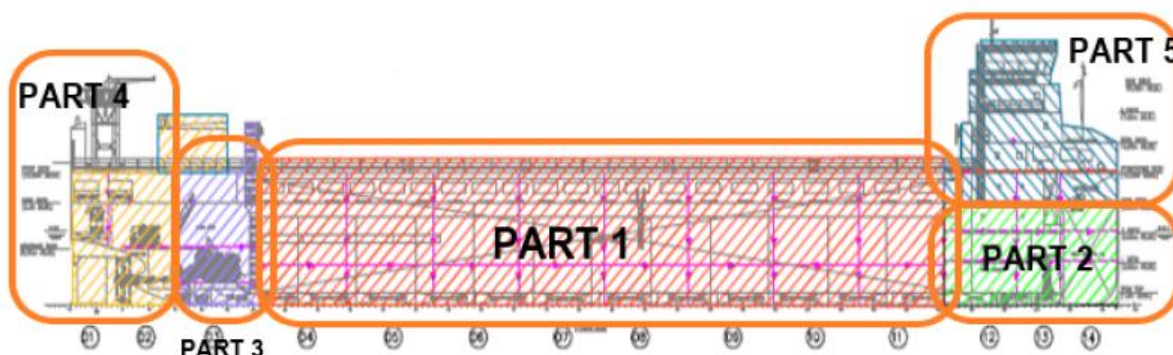
3. DETAILS OF BLOCK DIVISION

- (a) The Mega Hull Block (Part-1) consists of 08 blocks, each block is further divided into 05 smaller units as indicated in the table below:

Mega Block Description	PART 1	PART 2	PART 3	PART 4	PART 5
	Hull Mega Block	Forward Mega Block	Engine Room Block	AFT End Block	Superstructure Mega Block
No. of Blocks	8	-	-	-	-
No. of Units	40	16	8	10	12

Note: Length of Hull Mega Block (PART 1) will be in the range of 60 – 78m

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- (b) The erection of Part-1 also called the "Hull Mega Block" consisting of 08 Blocks (comprising of 05 Units each) as illustrated in Figure 1 & 2 below is in the scope of the tender.

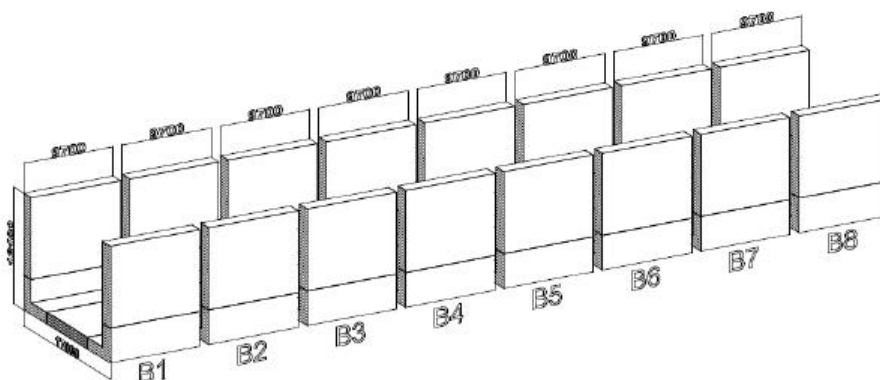


Figure-1: Division of PART1 /Mega Hull Block

- (c) Weld Seam length for Erection of 8 blocks towards formation of Hull Mega Block (Part 1) will be approx.2500 M /Ship. Average Thickness of Butt Joint is 14 mm.

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(d) Each Block is subdivided into 05 (Fig.2) Units as indicated below_

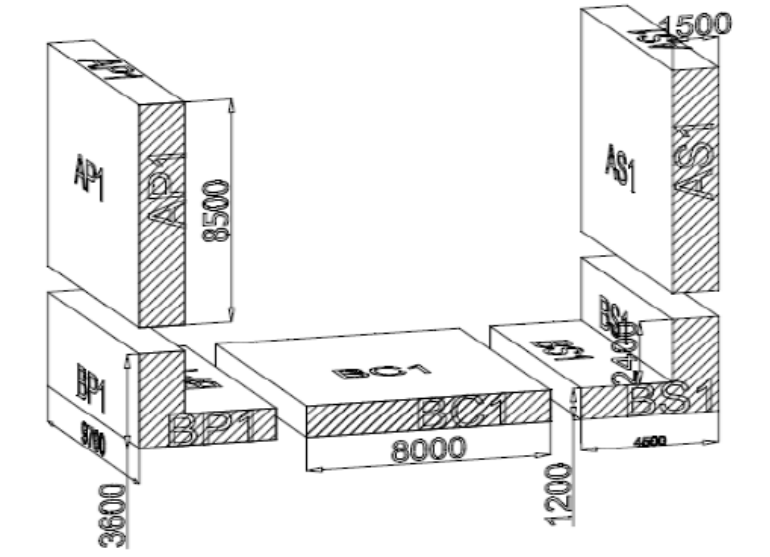


Figure-2: Division of Blocks into Units

Units	Length (M)	Width (M)	Height (M)	Max. Weight (T)
Double Bottom Centre	9.8	8	1.2	41
Ballast Tank (P&S)	9.8	4.5	3.6	34
Wing Tank (P&S)	9.8	1.5	8.5	46

Approx. sizes of each Units

4. SUB-CONTRACTOR'S SCOPE OF WORK:

- 4.1 Erection of blocks
- 4.2 Piping
- 4.3 Cable Tray Laying
- 4.4 Fitment of outfit items as per **Annexure-A**
- 4.5 Supply of outfit items as per **Annexure-AA**

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4.1 **Detailed Scope for Erection of blocks:**

- (a) The Units including Ballast tanks fabricated from AH36 grade steel plates and bulb profiles with plate thickness ranging from 8 to 20 mm shall be provided to subcontractor.
- (b) Transportation of fabricated units from fabrication site to Paint Booth for blasting and painting (primer coat) by GRSE and to Erection site is the responsibility of the subcontractor. Loading of fabricated units on TOMAC/KAMAG (Block Transporter) and unloading in Paint Booth and at Erection site is in the scope of the Subcontractor. Accordingly, necessary Gas cutting and welding of temporary supporting structure, stiffener etc. towards transportation of the fabricated units are in the scope of the Subcontractor. However, facilities viz. trestle, slings, crane and TOMAC/KAMAG with operator will be provided by GRSE.
- (c) Masking tapes to be placed at the edges (the places which will become erection joints at the time Block formation) of the Units to ensure protection of surface during application of paint. Blasted & Painted Units are to be transported to the erection site Hardstand/Slipway for erection in the dock block area. The standard length of each sub assembly unit is 10m including the welding greens for erection
- (d) Collection and transportation of GRSE supplied material from GRSE stores are to be arranged by subcontractor.
- (e) Necessary dock blocks are to be arranged on designated hardstand/slipway/drydock (erection site) as per docking plan prior to erection to the satisfaction of inspection authority. Subcontractor has to follow standard shipbuilding practice.
- (f) Average output required is 300 M/ month at GRSE (RBD).
- (g) The Units are to be positioned, aligned and erected to form Blocks, as per approved block and block division drawings.
- (h) Alignment and leveling of blocks, as per drawing and erection schedule. Necessary turnbuckle, hydraulic jacks, etc. are to be arranged. Sub-contractor may use one set of hydraulic block aligner available at RBD, for easy alignment and leveling of individual blocks. Additional block aligners may be arranged by subcontractor as required.
- (i) Fitment and welding of adjacent blocks (seams and butts) including back gouging, grinding/ fitment of ceramic back strip etc., shall be carried out to the satisfaction of Inspection authorities. Any fairing required in way of fitment of additional brackets/ collars/ marrying pieces has to be carried out by sub-contractor.
- (j) Lifting eyes, attachments/ stiffening gears are to be fabricated and welded on hull units/blocks as and when required. However, while removing the same care must be taken so as to avoid undulation and excess removal of parent metal.

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- (k) DP test of Weld joints to be carried out by subcontractor. Radiographic and/or Ultrasonic Test (UT) or Phased Array Ultrasonic Test (PAUT) or X-ray of welded joints shall be carried out by GRSE as per NDT plan. Surface preparation by grinding and RT location marking and transferring as advised by inspection authority shall be carried out by subcontractor.
- (l) Necessary scaffolding/staging is to be erected by sub-contractor. Those scaffolding/staging are to be dismantled prior launching/float out. All Scaffolding material such as pipes, clamps, Metal/ wooden planks etc. shall be in scope of supply of the sub-contractor and will be inspected by GRSE Safety prior to use.
- (m) All shipping openings for lowering of equipment are to be made and closed as per drawing and sequence, followed by requisite NDT Schedule.
- (n) Fabrication and Erection of MS seats as per Drawing. The weight of seats shall be considered as part of block weight.
- (o) Dry Survey of all compartments and tanks, as required, including fairing of dents, grinding of burrs, removal of unwanted items/ fittings and Pressure Testing (APT/WPT as per approved testing plan). Hose test of outer Hull including Block Butt & other important areas.
- (p) Any additional brackets, collars (including missing components) etc. required by inspection authority, has to be processed, fitted and welded by the sub-contractor at no extra cost to GRSE. However, raw material will be provided by GRSE.
- (q) Any item that is mentioned in the drawing & overlooked by vendor/ inspection authority/ production personnel will be under the scope of vendor & same to be fitted at later stage without any delay. In case any item has not been fitted at an earlier stage due to any reason (for subsequent production activities or as mentioned in drawing) are to be fitted, after completion of certain activity, by vendor at later stage as indicated by the yard.
- (r) Marking of frame nos. on dock blocks/ ship's hull.
- (s) Baseline, Centerline, Water line marking, has to be established and certified by inspection authority. Periodic checking of baseline is the responsibility of sub-contractor. However, the recordings must be certified by inspection authority and to be made available to GRSE on request.
- (t) Any delay in completion of block erection and submission of inspection reports will attract financial penalty as per LD clause.
- (u) Outfitting of pipes & cable trays to be completed in the units prior blasting. Post outfitting, the Units (where feasible) are to be pressure tested, as per Tank testing plan.

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- (v) The following outfit items (for 40 nos. fabricated Units of Mega Hull Block or Part-1 Block), of each MPV **are to be supplied and fitted** by the sub-Contractor, as per approved drawings_

- i. Manholes
- ii. Ladders
- iii. Tank/ Bhd./ deck/ Shell Penetration Pieces
- iv. Pipes
- v. Line valves

Detailed list is placed at **Annexure-AA**

- (w) Detailed list of outfit items & items for piping job is placed at **Annexure-A**
- (x) Draft QAP for Mega Hull Block Erection is placed at **Annexure-B**.
- (y) Shipbuilding practices to be followed for construction of MPVs are placed as **Annexure-C**.
- (z) Plumbing activities to be carried out as per SOTR placed at **Annexure-D**.

5. **CLASSIFICATION:**

The vessel shall be designed and built under the Survey and in accordance with the rules of Classification Society of DNV with the following class notations:

✱ 1A, Multi-purpose Dry Cargo Ship, Strengthened (IB), Ice 1A, Container, GRAB (2-20), E0, NAUT (NAV), LCS, DG (B), DG (P), DBC, ER(SCR), Clean, BWM (T), BIS, TMON (Oil lubricated), Recyclable, Fuel Ready (LFL- [D, MEca]), Hatch coverless (NC).

The DNV/GL/DNV rules for classification of series, 08 Nos 7,500 DWT Multi-Purpose Cargo Vessels dated July 2023 shall apply.

6. **ISO STANDARD:**

- (a) ISO 8501- Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness.

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7. WORKMANSHIP:

Workmanship for the Vessel has to comply to the Builder's standard and IACS shipbuilding standard Rec.47 or equivalent first-class international shipbuilding practice/standard.

Following are some points for attention:

- (a) Erection of blocks shall be of good workmanship. All structural members must match with drawings.
- (b) Welding leg length and edge preparation to be as per drawing/ document. Only certified Welders for AH36 grade steel shall be deployed. Necessary certification of welders to be arranged by sub-contractor from appropriate authority at their cost. Proper care shall be taken during welding so as to achieve minimum distortion. MIG welding to be carried out to the maximum extent possible.
- (c) While providing support during transit and erection of units and blocks due care to be taken to minimize burning of paint in compliance to PSPC norms.
- (d) WPS/PQR as established in GRSE duly certified by relevant Class for the grade of material are to be strictly followed.
- (e) Overall finished dimension of blocks and spacing of structural members shall be as per drawing. Proper care must be taken during erection of blocks so that distortion is minimal. If distortion is beyond class standard the same to be faired at no extra cost.
- (f) Loss of parent metal on any surface caused by gas cutting/ chipping must be avoided. However, in case of such eventuality, with prior approval from inspection authority same is to be repaired by weld deposition and subsequent grinding, before final inspection.
- (g) Proper care must be taken during transportation of Units/blocks. Transit damages, if any, must be rectified by the contractor free of cost. There shall not be any deformation post cutting of additional supports/members required for transportation. Any deformation found to be rectified by the vendor at no extra cost.
- (h) Responsibility for cleanliness of blocks during erection rests with the contractor. The contractor is responsible for upkeep of the work area. The Erection site shall be kept neat and clean at all times. Garbage and scrap are to be segregated and deposited at the space earmarked by GRSE. Penalty shall be imposed on defaulters as promulgated by GRSE from time to time.

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8. **INSPECTION FOR ERECTION JOB:**

- (a) Inspection (including stage inspection) will be carried out by GRSE (QA). Alignment fitment, welding & overall dimensional checks will be offered by sub-contractor to GRSE, who in turn will offer to DNV. Minor modification, if required, need to be carried out without extra cost.
- (b) Non-destructive testing of welds by dye penetration tests & radiographic tests shall be carried out as per NDT schedule and requirement of GRSE (QA)/ DNV.
- (c) QA plan for inspection to be prepared by contractor in consultation with GRSE (QA) and to be approved by GRSE/ Customers' Rep./Class.
- (d) The contractor shall assist GRSE personnel and inspection/OEM authorities, if any, when they perform inspections. The contractor shall furnish a detailed report to GRSE of observed discrepancies and omissions in the work.

9. **DRAWINGS:**

Following drawings are to be referred during work: -

- (a) Offset Table
- (b) Block drawings
- (c) Block division plan
- (d) Seating Drawings
- (e) Structural drawings
- (f) Docking Plan
- (g) Welding details
- (h) GRSE proposed QAP for hull erection
- (i) Non-Destructive Testing plan
- (j) Drawings for outfitting activities (Refer Para 3(w))

10. **GRSE'S SCOPE OF SUPPLY:**

- (a) Hull Units along with loose parts, if any.
- (b) All relevant drawings.
- (c) MS Plates & Sections for erection aid, supports and temporary stiffening on chargeable basis, if required by contractor.
- (d) Block transporter: KAMAG/TOMAC with Operator

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- (e) Crane with slings & shackles with driver.
- (f) One set of Hydraulic Aligner (on loan) for easy alignment of blocks.
- (g) Primer with compatible thinner for preservation painting.
- (h) Electricity, compressed air, and water at designated distribution points
- (i) Blower for ventilation arrangement.
- (j) Dock Blocks both concrete and wooden.
- (k) Remote Controlled Valve

11. SUB-CONTRACTOR'S SCOPE OF SUPPLY:

- (a) All tools and tackles including induction type grinding machine, welding machine (with RCCB protection) along with accessories like cable, holder, grinding wheels, etc. as well as safety gadgets viz. welding screen, gas goggles, hand gloves, gas hoses, helmets, safety belt, flash protector, chain screws etc. required for erection has to be made available.
- (b) All consumables including approved welding electrodes, filler wires, gases required for welding and cutting, ceramic back strips, DP test kits, MPT equipment etc. Details of Welding consumables kept at Annex.
- (c) Masking Tapes
- (d) Safety gadgets, as required.
- (e) Scaffolding/Staging material.
- (f) Any other material not listed in para-10 above.
- (g) Temporary lighting for working during erection (24V and 110V) as required.

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12. **CONFIDENTIALITY AND INTELLECTUAL PROPERTY RIGHTS (IPR).**

All information given to the Contractor for execution of this order (Erection of Mega Hull blocks for GRSE Yard No. 3050-57) or generated by the Contractor during execution of work are Intellectual Property of GRSE and are to be treated as Confidential. All technical information, drawings, specifications & other related documents forming part of this work are property of GRSE & shall not be used for any other purpose except for execution of this order. No information, drawing or document shall be copied, transcribed, traced or reproduced in any form to a third party and used in any other form whatsoever without GRSE's prior consent in writing, except to the extent required for execution of this order. The Contractor shall ensure to return all inputs received at their office at the end of engagement. Any violation shall be considered as infringement of Intellectual Property Rights of GRSE. The Contractor shall be bound by Official Secrets Act promulgated by Government of India. The Contractor shall submit a Non-Disclosure Agreement with GRSE to this effect, after placement of order. All drawings/ documents issued to the contractor should not be copied and should be returned to GRSE on completion of work.

13. **MATERIALS:**

- (a) Type, sizes and materials of fittings are to be in accordance with European Standards (EN) unless specified otherwise.
- (b) Pipes and pipe fittings shall follow as per below standards unless specified otherwise:
 - i. Carbon Steel (CS) Pipes: standard ASME B 36.10 and material ASTM A 106 Gr. 8.
 - ii. Stainless Steel (SS) Pipes: standard ASME 836.19 and material SS 316L.
 - iii. Copper (Cu) Pipes: BS 2871, Part 2 C106 grade
- (c) All material, accessories and outfit items which are to be supplied by the Contractor shall be new, as per design and class requirements. Vendor shall submit the Manufacturer's test certificate or Conformity certificate or Type approval from Class to the requirements for each component supplied. The Contractor has to submit details of prohibited or restricted materials as required by relevant Class notation.
- (d) Material and system contents shall be Halon, CFC and Asbestos free throughout the vessel and "asbestos free certificate" to be provided. The Vessel shall be PVC free except for items as specified.

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14. **MANPOWER:**

Sub-contractor shall indicate actual data in regard to following aspects during submission of bid: -

- a) Skilled workers including number of experienced markers, fitters, welders, gas cutters including qualification and experience.
- b) The sub-contractor should undertake that these operatives would not be withdrawn jeopardizing the construction schedule. In case such a requirement becomes essential, the contractor will obtain written permission of Project Leader, GRSE.
- c) The contractor should have its own QC team consisting of following: -
 - i) Qualified NDT personnel ASNT/ISNT Level-2 or above in DPT/UT.
 - ii) QC Supervisor with valid certified welding inspector certification from recognized institute.
 - iii) **NDT** - Apart from certified DPT level-2 personnel, firm must have MPT level-2 certified personnel as per ISO 9712 along-with MPT equipment for ferro-magnetic material NDT. MPT is in the scope of the vendor.
- d) The Contractor shall appoint a qualified and experienced **Project Manager** for planning, monitoring, controlling vessel construction work and risk management. The project Manager is to be assisted by a Project Coordinating officer and supervisors. Project Manager appointed by Contractor shall be the single point of contact for GRSE. Sub-contractor should submit details about engineers/supervisors employed for the work.

15. **Technical Pre-qualification criteria:**

- (a) The Vendor shall have previous experience of undertaking erection of Hull blocks/units and plumbing job (pipe fabrication and erection) for ships.
- (b) The vendor should have erected a minimum quantity of 500 Tons of hull blocks in any 03 years during the period of last 5 Years ending on 30 Nov 24, and should be able to deploy minimum 50 workers per day. Work Done Certificates along with the corresponding Purchase Orders in support of bidder's credentials to be submitted in TNC. This is a mandatory criterion.
- (c) The Vendor shall have previous experience of undertaking plumbing (pipe fabrication and erection) for Naval or Commercial ships over 60 M LOA. The minimum quantity of plumbing job successfully completed in any one year during the period of last 05 years ending on 30 Nov 24 should be 04 Km. Work Done Certificates along with the corresponding Purchase Orders in support of bidder's credentials to be submitted in TNC.

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- (d) Bidders who qualify for block erection, but do not meet the criteria at para15(c) for plumbing work, may deploy a sub-vendor who meets the prequalification criteria for plumbing work. The name and credentials of the sub-vendor to be submitted during TNC. In case during execution of work, the sub-vendor is required to be changed due to unavoidable reason, the same shall be permissible only with written permission from GRSE.
- (e) The Vendor should have its own experienced erection & piping team comprising of the following, duly supported by well-established QA/ QC team. The vendor should have minimum 50 workers in their present pay roll as per following _
- Structural fitter/marker
 - Pipe Fitters
 - Gas cutter
 - Electric Grinder
 - Qualified welders.
 - Two qualified supervisors having Diploma in mechanical/ civil with past 03 years ship building experience in established shipyard is mandatory. At least one of the supervisors must have completed a certified welding inspector course from a reputed institution and possess a valid certificate.
- (f) For any change of deployed personnel, the same must be replaced with similar qualification criteria i.e., Diploma in mechanical/ civil with past shipbuilding experience and certified welding inspector within 7 days. Vendor has to submit declaration confirming the same during TNC.
- (g) During TNC, the vendor will submit the list of experienced QA/QC personnel (min 02 heads), (having Min 3 Yrs of experience in QA/ QC in shipbuilding) responsible for the inspection of completed job before offering it to QA / Class. Level I/II in ISNT/ ASNT for LPT and RT is mandatory for at least one supervisor. GRSE QA will assess their documents
- (h) Prospective bidders are requested to attend Pre-bid meeting for better appreciation of the actual scope of work and supply. Pre-bid meeting through Video conferencing shall be arranged on advance request.

16. **PLANNING**

- (a) Contractor should submit "Unit and block erection Schedule" to GRSE as per availability of blocks/Units at GRSE. The same will be studied by GRSE for matching with GRSE's construction schedule and contractor shall accommodate changes as required by GRSE. If required, contractor will be allowed to work beyond normal hours and even on Sundays/holidays.

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Job Completion Schedule:

Yard no.	3050	3051	3052	3053	3054	3055	3056	3057
Start date	May 25	May 25	Jul 25	Jul 25	Apr 26	Jul 26	Sep 26	Nov26
End Date	Nov 25	Dec 25	May 26	Jul 26	Nov 26	Feb 27	Apr 27	Jun 27

- (b) The Contractor shall prepare schedules for erection & outfitting. The Contractor shall submit monthly progress report to GRSE by the 2nd day of following month in a specified format as provided by GRSE.
- (c) Periodic review meetings with various agencies/ reps such as Class & GRSE shall be conducted towards finalization of major milestones of the Project. The modalities of such meetings shall be deliberated during construction stage.

17. SAFETY AND SECURITY

- (a) The contractor shall be responsible for safety of all personnel working for construction of the vessel. The contractor shall ensure that all safety norms are followed while working inside the Yard. The contractor shall ensure that necessary safety gears are provided to the personnel working and safety instructions to the personnel are issued.
- (b) Safety and security of all equipment and material issued to the contractor shall be the responsibility of the contractor.

18. HINDRANCE & DELAY

Hindrance Register/Log Book shall be maintained by the Contractor to document following aspects after placement of work order: -

- (a) Reasons for delay vis-à-vis the mutually agreed schedule (Hindrance) viz
 - (i) Delay in GRSE Inputs (viz Material/Documents/ Services/Inspection call)
 - (ii) Delay by Inspection agency
 - (iii) Delay on account of OEM
 - (iv) Non-performance by the Contractor
 - (v) Delinquency by Contractor.
 - (vi) Force majeure
 - (vii) Any other relevant reason

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- (b) Sources of delay (Attributability)
- (i) Contractor
 - (ii) GRSE
 - (iii) Class
 - (iv) OEMs
 - (v) Any other agency
- (c) In case the hindrance is on account of GRSE and GRSE is unable to remove hindrance immediately, the Contractor shall be informed accordingly. In such case the Contractor may reduce manpower deployed on the work at their discretion after informing GRSE. Under no circumstances, the Contractor shall be paid for idle manpower and resources.
- (d) Slippage of cardinal dates, if any, shall be intimated to GRSE through a delay report. The cause, attributability of delay and impact on critical path should be brought out unambiguously in such delay report along with proposed risk mitigation strategy. The baseline Gantt Chart may be updated after review with GRSE.
- (e) In case of unsatisfactory performance by vendor, GRSE reserves the right to short close the purchase order.

19. **MODIFICATION AND REWORK**

- (a) Rework necessitated due to deviations/omissions by the Contractor shall be the liability of Contractor and cost of such rework shall be borne by Contractor.
- (b) Modification / rework charges at 120% of the applicable rate shall be payable in case of changes/ modification at the behest of GRSE, due to changes in drawings for already erected or fitted items and certified as per inspection stage in QAP. However, this will have to be done under written instruction from GRSE and a mention to this effect is to be made in WDC. Any rework arising out of defective workmanship will not be paid for. [Note: For replacement of any portion through modification work, payment @120% rate will be paid for the modified/rework done. For cutting/dismantling of the earlier done work (before modification) will not be considered as rework/mod work].
- (c) Inspection will be carried out by GRSE nominated officer before start of modification to ascertain the Scope of modification to be carried out in this Mega hull block erection stage.

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20. **WORK DONE CERTIFICATE (WDC):**

- (a) WDC shall be issued by GRSE upon completion of each stage of progress. The WDC shall be issued, after scrutiny of all inspection reports and clearance by Class/Customer at various stages of inspections, for the activities associated with a particular stage payment. Competent Authority for WDC and bills will be respective Hull and Engineering Coordinators (officers) nominated by GRSE.
- (b) The Contractor shall submit original WDC along with their invoice to GRSE for release of stage payments. Failure and/or neglects to submit WDC shall be considered as non-performance on the part of the Contractor.

21. **MILESTONES FOR PAYMENTS**

21.a **Payment Term for Supply of Items (as per Annexure-AA):**

- i. 90% payment (with full GST) will be paid within 30 days of Delivery of items of each category (as per line items' list at Annexure-AA) and supported by inspection notes issued by GRSE as per technical specifications and delivery challans at GRSE.
- ii. Balance 10% payment (with full GST) will be released after expiry of guarantee period /one year post delivery, duly certified by the bill approving authority_ PL /Nominated Rep. GRSE-PMT

21.b **Payment Term for Service Items:**

- i) 90% payment (with full GST) will be paid within 30 days of receipt of bill (in 03 copies) duly certified by Bill Certifying Authority, PL /Nominated Rep. GRSE-PMT & supported with satisfactory Work Done Certificate. Recoverable from contractor, if any, is to be adjusted from 90% payment as per certification of Bill Certifying Authority- PL /Nominated Rep. GRSE-PMT.
- ii) 10% of the certified bill amount will either be retained from each bill as performance guarantee amount and the same will be released after expiry of guarantee period duly certified by the bill approving authority as per SOTR or be paid against submission of Performance Bank Guarantees of equivalent amounts valid till expiry of Guarantee period. Material Reconciliation Statement, if any is to be submitted to claim against this 10% balance payment.
- iii) Payment will be made on actual certification basis.
- iv) Payment to be claimed, against submission of BG of equivalent amount from any Scheduled Bank, other than co-operative bank for each ship and the same should be valid till the tenure of contract plus 03 months, after achieving the above mentioned stages.

GRSE LTD.	TECHNICAL SPECIFICATION FOR TURNKEY SUBCONTRACTING OF MEGA BLOCK MPVs	SOTR No. MPVs/H/01
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Inspection: DNV		Date:08 Apr 25

22. **OWNERSHIP:**

The Free Issue materials and the vessel to be constructed by the Contractor on behalf of GRSE shall at all times remain the exclusive property of GRSE and the Contractor under any circumstances shall not be entitled to nor shall have the right to create mortgage, charge, lien or other encumbrance of any nature whatsoever over and in respect of the said free use materials and the vessel to be constructed.

23. **PROJECT MONITORING TEAM:**

A Project Monitoring Team from GRSE will be constituted for monitoring the progress of work and receipt & supply of materials under GRSE scope. Office space (one AC Container on Jetty with computer, printer facility etc.) for day-to-day functioning is to be provided by contractor.

24. **WEIGHT RECORDING:**

Weight recording of all the hull units/equipment/outfit items/material taken on board is to be carried out by the Contractor. If the weights are not indicated on the equipment tally box or document, then such equipment is to be weighed on a weighing scale before taking on board. This weight will be considered for weight monitoring and control. The record of weight monitoring will be included in the progress reports to be submitted by the Contractor to GRSE and the same will be reviewed by GRSE PMT during progress reviews.

25. **DOCUMENTATION:**

The contractor shall prepare the following documentation:

- (a) Operation and maintenance manuals of all equipment all equipment supplied by contractor (if any).
- (b) Photographs (during drydocking and major evaluation)
- (c) Certificates and reports all equipment, outfit item supplied by contractor (if any).

Annexure-AA**Quantity /Specification for Supply of Outfit items**

1. Tentative quantity and specification of the outfit items to be supplied by the vendor for cargo hold area (Fr.: 31 to 139) is summarized below_

A. Hull Out Items:

Sl. No.	Item Description with Indicative dimension	Indicative QTY.	UOM
i.	1. WATER TIGHT MANHOLE 600X400_OF2-H-18 2. OIL TIGHT MANHOLE 600X400_TYPE OF2-H-18 3. WATER TIGHT MANHOLE 600X400_TPE OF2-H-10 4. WATER TIGHT MANHOLE 600X400_TYPE OL1-H 5. OIL TIGHT MANHOLE 600X400_TYPE OL1-H 6. CONTINGENCY SPARE: HEXAGONAL NUTS	32 2 30 33 2 150	Nos.
ii.	1. V.LADDER,MS GALV,993L,400W,22RUNG,TYP A 2. V.LADDER,MS GALV,4865L,400W,22RUNG,TYP A 3.V.LADDER,MS GALV,1478L,400W,22RUNG,TYP A 4. V.LADDER,MS GALV,1328L,400W,22RUNG,TYP A	34 37 35 30	Nos.

B. Pipes, Valves, Fittings & Penetration Pieces:

7500MPV-CORAL_BOM (CARGO HOLD AREA)										
SI No	SYSTEM	DESCRIPTION	SIZE	DIMENSION STANDARD	MATERIAL	QUANTITY		UNIT WEIGHT (kg)	TOTAL WEIGHT (kg)	REMARKS
						LENGTH (m)	No.			
1	BALLAST SYSTEM	PIPE SEAMLESS CS	DN150	ANSI B36.10	ASTM A106 Gr.B	30.0	-	28.3	847.8	
2	BALLAST SYSTEM	PIPE SEAMLESS CS	DN80	ANSI B36.10	ASTM A106 Gr.B	30.0	-	11.3	338.7	
10	BALLAST SYSTEM	ELBOW LR 90 DEG.	DN150	ANSI B16.9	ASTM A234 WPB	-	28	10.2	285.6	
11	BALLAST SYSTEM	ELBOW LR 90 DEG.	DN80	ANSI B16.9	ASTM A234 WPB	-	28	2.5	70.0	
12	BALLAST SYSTEM	FLANGE SOFF	DN150	EN1092-1	EN 10222-2	-	46	7.1	328.4	
13	BALLAST SYSTEM	FLANGE SOFF	DN80	EN1092-1	EN 10222-2	-	44	3.6	158.4	
22	BALLAST SYSTEM	DOUBLER PLATE FOR PENETRATION	DN150	-	STEEL	-	46	0.0	0.0	
23	BALLAST SYSTEM	DOUBLER PLATE FOR PENETRATION	DN80	-	STEEL	-	44	0.0	0.0	
24	BALLAST SYSTEM	BELL MOUTH	DN150	ANSI B16.9	ASTM A234 WPB	-	30	20.3	609.0	

25	BILGE SYSTEM	PIPE SEAMLESS CS	DN125	ANSI B36.10	ASTM A106 Gr.B	50.0	-	21.8	1090.0	
26	BILGE SYSTEM	PIPE SEAMLESS CS	DN65	ANSI B36.10	ASTM A106 Gr.B	10.0	-	8.6	86.0	
27	BILGE SYSTEM	PIPE SEAMLESS CS	DN50	ANSI B36.10	ASTM A106 Gr.B	5.0	-	5.4	27.0	
37	BILGE SYSTEM	ELBOW LR 90 DEG.	DN125	ANSI B16.9	ASTM A234 WPB	-	6	6.5	39.0	
38	BILGE SYSTEM	ELBOW LR 90 DEG.	DN80	ANSI B16.9	ASTM A234 WPB	-	2	2.5	5.0	
39	BILGE SYSTEM	ELBOW LR 90 DEG.	DN65	ANSI B16.9	ASTM A234 WPB	-	12	2.0	24.0	
40	BILGE SYSTEM	FLANGE SOFF	DN125	EN1092-1	EN 10222-2	-	20	5.4	108.0	
45	BILGE SYSTEM	DOUBLER PLATE FOR PENETRATION	DN125	-	STEEL	-	12	0.0	0.0	
46	BILGE SYSTEM	DOUBLER PLATE FOR PENETRATION	DN200	-	STEEL	-	1	0.0	0.0	
49	BILGE SYSTEM	SWING CHECK VALVE	DN125	DIN	CAST IRON /BRONZE	-	6	35.0	210.0	
50	BILGE SYSTEM	SWING CHECK VALVE	DN80	DIN	CAST IRON /BRONZE	-	2	20.0	40.0	
51	BILGE SYSTEM	SDNR VALVE	DN65	DIN	CAST IRON /BRONZE	-	10	20.0	200.0	
52	BILGE SYSTEM	STRUM BOX	DN125	DIN	STEEL (GALV.)	-	6	5.0	30.0	
53	BILGE SYSTEM	STRUM BOX	DN80	DIN	STEEL (GALV.)	-	2	4.0	8.0	
54	BILGE SYSTEM	STRUM BOX	DN65	DIN	STEEL (GALV.)	-	10	3.0	30.0	
57	FIRE & DECK WASH	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	160.0	-	16.1	2572.8	
58	FIRE & DECK WASH	PIPE SEAMLESS CS	DN50	ANSI B36.10	ASTM A106 Gr.B	20.0	-	5.4	108.8	
59	FIRE & DECK WASH	ELBOW LR 90 DEG.	DN100	ANSI B16.9	ASTM A234 WPB	-	10	3.9	39.0	
60	FIRE & DECK WASH	ELBOW LR 90 DEG.	DN50	ANSI B16.9	ASTM A234 WPB	-	10	0.3	3.0	
61	FIRE & DECK WASH	FLANGE SOFF	DN100	EN1092-1	EN 10222-2	-	60	4.4	263.4	
62	FIRE & DECK WASH	FLANGE SOFF	DN50	EN1092-1	EN 10222-2	-	10	2.7	27.0	
63	FIRE & DECK WASH	FIRE HYDRANT VALVE	DN50	DIN	CAST IRON/BRONZE	-	8	10.4	83.2	
64	FUEL OIL SYSTEM	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	30.0	-	16.1	482.4	
65	FUEL OIL SYSTEM	PIPE SEAMLESS CS	DN32	ANSI B36.10	ASTM A106 Gr.B	15.0	-	3.4	50.9	
66	FUEL OIL SYSTEM	ELBOW LR 90 DEG.	DN100	ANSI B16.9	ASTM A234 WPB	-	10	3.9	39.0	
67	FUEL OIL SYSTEM	FLANGE SOFF	DN100	EN1092-1	EN 10222-2	-	10	4.4	43.9	
68	FUEL OIL SYSTEM	FLANGE SOFF	DN32	EN1092-1	EN 10222-2	-	6	1.8	10.9	

71	FUEL OIL SYSTEM	DOUBLER PLATE FOR PENETRATION	DN100	-	STEEL	-	4	0.0	0.0	
72	FUEL OIL SYSTEM	DOUBLER PLATE FOR PENETRATION	DN32	-	STEEL	-	2	0.0	0.0	
73	SANITARY SUPPLY SYSTEM	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	150.0	-	16.1	2412.0	
74	SANITARY SUPPLY SYSTEM	PIPE SEAMLESS CS	DN50	ANSI B36.10	ASTM A106 Gr.B	180.0	-	3.4	612.0	
75	SANITARY SUPPLY SYSTEM	ELBOW LR 90 DEG.	DN100	ANSI B16.9	ASTM A234 WPB	-	14	3.9	54.6	
76	SANITARY SUPPLY SYSTEM	ELBOW LR 90 DEG.	DN50	ANSI B16.9	ASTM A234 WPB	-	8	0.3	2.4	
77	SANITARY SUPPLY SYSTEM	FLANGE SOFF	DN100	EN1092-1	EN 10222-2	-	10	4.4	43.9	
78	SANITARY SUPPLY SYSTEM	FLANGE SOFF	DN50	EN1092-1	EN 10222-2	-	6	2.7	16.2	
79	SANITARY SUPPLY SYSTEM	BALL VALVE	DN15	DIN	CAST IRON /BRONZE	-	8	1.8	14.4	
80	SCUPPER & DRAIN SYSTEM	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	35.0	-	22.3	780.5	
81	SCUPPER & DRAIN SYSTEM	DECK SCUPPER FOR WEATHER DECK	DN100	-	STEEL	-	10	2.7	27.0	
82	COMPRESSED AIR SYSTEM	PIPE SEAMLESS CS	DN25	ANSI B36.10	ASTM A106 Gr.B	120.0	-	2.5	300.0	
83	COMPRESSED AIR SYSTEM	PIPE SEAMLESS CS	DN15	ANSI B36.10	ASTM A106 Gr.B	40.0	-	1.3	50.8	
84	COMPRESSED AIR SYSTEM	FLANGE SOFF	DN25	EN1092-1	EN 10222-2	-	40	1.1	44.4	
85	COMPRESSED AIR SYSTEM	FLANGE SOFF	DN15	EN1092-1	EN 10222-2	-	10	0.7	6.7	
86	COMPRESSED AIR SYSTEM	BALL VALVE	DN15	DIN	CAST IRON /ST.STEEL	-	8	1.8	14.4	
87	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN200	ANSI B36.10	ASTM A106 Gr.B	70.0	-	64.6	4524.8	
88	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN200	ANSI B36.10	ASTM A106 Gr.B	360.0	-	42.6	15318.0	
89	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN125	ANSI B36.10	ASTM A106 Gr.B	5.0	-	31.0	154.9	
90	AIR VENT, SOUNDING & OVERFLOW	PIPE SEAMLESS CS	DN125	ANSI B36.10	ASTM A106 Gr.B	5.0	-	21.8	108.9	

	LINES									
91	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN80	ANSI B36.10	ASTM A106 Gr.B	25.0	-	15.3	382.5	
92	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN40	ANSI B36.10	ASTM A106 Gr.B	24.0	-	4.1	97.2	
93	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN32	ANSI B36.10	ASTM A106 Gr.B	120.0	-	3.4	406.8	
94	AIR VENT, SOUNDING & OVERFLOW LINES	ELBOW LR 90 DEG.	DN200	ANSI B16.9	ASTM A234 WPB	-	20	20.3	406.0	
95	AIR VENT, SOUNDING & OVERFLOW LINES	FLANGE SOFF	DN200	EN1092-1	EN 10222-2	-	60	9.3	556.2	
96	AIR VENT, SOUNDING & OVERFLOW LINES	FLANGE SOFF	DN125	EN1092-1	EN 10222-2	-	8	5.4	43.3	
97	AIR VENT, SOUNDING & OVERFLOW LINES	FLANGE SOFF	DN80	EN1092-1	EN 10222-2	-	20	3.6	72.0	
98	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN200	-	STEEL	-	30	20.0	600.0	
99	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN125	-	STEEL	-	2	9.0	18.0	
100	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN125	-	STEEL	-	2	9.0	18.0	
101	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN80	-	STEEL	-	10	4.0	40.0	
102	AIR VENT, SOUNDING & OVERFLOW LINES	SOUNDING CAP	DN40	-	STEEL	-	2	0.0	0.0	
103	AIR VENT, SOUNDING & OVERFLOW LINES	SOUNDING CAP	DN32	-	STEEL	-	40	0.0	0.0	

104	AIR VENT, SOUNDING & OVERFLOW LINES	SOUNDING CAP	DN32	-	STEEL	-	2	0.0	0.0	
105	AIR VENT, SOUNDING & OVERFLOW LINES	SLEEVE PENETRATION	DN200	ANSI B16.9	ASTM A106 Gr.B	-	60	8.3	497.4	
106	AIR VENT, SOUNDING & OVERFLOW LINES	SLEEVE PENETRATION	DN125	ANSI B36.10	ASTM A106 Gr.B	-	4	3.4	13.6	
107	AIR VENT, SOUNDING & OVERFLOW LINES	SLEEVE PENETRATION	DN80	ANSI B36.10	ASTM A106 Gr.B	-	20	2.8	56.6	
108	CO2 SYSTEM	PIPE SEAMLESS CS	DN40	ANSI B36.10	ASTM A106 Gr.B	160.0	-	4.1	648.0	
109	CO2 SYSTEM	PIPE SEAMLESS CS	DN25	ANSI B36.10	ASTM A106 Gr.B	100.0	-	2.5	250.0	
110	CO2 SYSTEM	FLANGE SOFF	DN40	EN1092-1	EN 10222-2	-	30	2.1	62.4	
111	CO2 SYSTEM	FLANGE SOFF	DN25	EN1092-1	EN 10222-2	-	30	1.1	33.3	
112	ANTIFREEZING SYSTEM	PIPE SEAMLESS CS	DN25	ANSI B36.10	ASTM A106 Gr.B	160.0	-	2.5	400.0	
113	ANTIFREEZING SYSTEM	PIPE SEAMLESS CS	DN15	ANSI B36.10	ASTM A106 Gr.B	100.0	-	1.3	127.0	
114	ANTIFREEZING SYSTEM	FLANGE SOFF	DN25	EN1092-1	EN 10222-2	-	30	1.1	33.3	

NOTES:

- 1) This BOM covers Pipe and Pipe Fittings details in the cargo hold area and is only for reference
- 2) BOM is subjected to modifications as the Design progresses
- 3) BOM for Pipe supports, Fasteners, Small bore & Tubings and Speciality items are not included
- 4) STUB-IN's considered instead of standard Tee connections for CS pipes
- 5) Standard LR elbows considered for 2" and above
- 6) Supply & fitment of PE 100 Pipe and PE Pipe Fittings of cargo hold area will be under GRSE's scope.
- 7) Remote Controlled Valve (of Hoppe/ Besi /Honeywell make) will be supplied by GRSE, fitment to be done by vendor.
- 8) BOM is indicative and the small-bore pipes/ tubes and associated pipe fittings are not included.
- 9) **Material for Doubler plate for penetration, sleeve penetration etc. to be supplied & fabricated by vendor based on the issued drawing.**

Annexure-A

Fitment of Outfit items

1. Tentative quantity and specification of the outfit items including pipes/fittings/valves etc. to be fitted by the sub-contractor in cargo hold area (Fr.: 31 to 139) is summarized below_

A. Outfitting Items:

Sl. No.	Item Description with Indicative dimension	Indicative QTY.	UOM
i.	1. WATER TIGHT MANHOLE 600X400_OF2-H-18 2. OIL TIGHT MANHOLE 600X400_TYPE OF2-H-18 3. WATER TIGHT MANHOLE 600X400_TPE OF2-H-10 4. WATER TIGHT MANHOLE 600X400_TYPE OL1-H 5. OIL TIGHT MANHOLE 600X400_TYPE OL1-H 6. CONTINGENCY SPARE: HEXAGONAL NUTS	32 2 30 33 2 150	Nos.
ii.	1. V.LADDER,MS GALV,993L,400W,22RUNG,TYP A 2. V.LADDER,MS GALV,4865L,400W,22RUNG,TYP A 3.V.LADDER,MS GALV,1478L,400W,22RUNG,TYP A 4. V.LADDER,MS GALV,1328L,400W,22RUNG,TYP A	34 37 35 30	Nos.
iii.	Tank/ Bhd./ deck/ Shell Penetration Pieces	-	Nos.
iv.	Pipes inside Tank	Summarized below in Table B	M
v.	Sea tubes		Nos.
vi.	1) Tween deck/Grain bulkhead panel socket 2) Lashing pot (SWL-25t)	Dimension shall be as per maker details 1) 128 2) 300	Nos.

B. Pipes, Valves, Fittings & Penetration Pieces:

A. 7500MPV-CORAL_BOM (CARGO HOLD AREA)										
Sl No	SYSTEM	DESCRIPTION	SIZE	DIMENSION STANDARD	MATERIAL	QUANTITY		UNIT WEIGHT (kg)	TOTAL WEIGHT (kg)	REMARKS
						LENGTH (m)	No.			
1	BALLAST SYSTEM	PIPE SEAMLESS CS	DN150	ANSI B36.10	ASTM A106 Gr.B	30.0	-	28.3	847.8	
2	BALLAST	PIPE SEAMLESS	DN80	ANSI	ASTM A106	30.0	-	11.3	338.7	

	SYSTEM	CS		B36.10	Gr.B					
10	BALLAST SYSTEM	ELBOW LR 90 DEG.	DN150	ANSI B16.9	ASTM A234 WPB	-	28	10.2	285.6	
11	BALLAST SYSTEM	ELBOW LR 90 DEG.	DN80	ANSI B16.9	ASTM A234 WPB	-	28	2.5	70.0	
12	BALLAST SYSTEM	FLANGE SOFF	DN150	EN1092-1	EN 10222-2	-	46	7.1	328.4	
13	BALLAST SYSTEM	FLANGE SOFF	DN80	EN1092-1	EN 10222-2	-	44	3.6	158.4	
19	BALLAST SYSTEM	BUTTERFLY VALVE ELECTRIC OPERATED (LUG TYPE)	DN200	DIN	CAST IRON /BRONZE	-	1	41.6	41.6	Ex. Rated Actuator
20	BALLAST SYSTEM	BUTTERFLY VALVE ELECTRIC OPERATED (LUG TYPE)	DN150	DIN	CAST IRON /BRONZE	-	30	34.5	1035.0	Ex. Rated Actuator
21	BALLAST SYSTEM	BUTTERFLY VALVE ELECTRIC OPERATED (LUG TYPE)	DN80	DIN	CAST IRON /BRONZE	-	28	13.6	380.8	Ex. Rated Actuator
22	BALLAST SYSTEM	DOUBLER PLATE FOR PENETRATION	DN150	-	STEEL	-	46	0.0	0.0	
23	BALLAST SYSTEM	DOUBLER PLATE FOR PENETRATION	DN80	-	STEEL	-	44	0.0	0.0	
24	BALLAST SYSTEM	BELL MOUTH	DN150	ANSI B16.9	ASTM A234 WPB	-	30	20.3	609.0	
25	BILGE SYSTEM	PIPE SEAMLESS CS	DN125	ANSI B36.10	ASTM A106 Gr.B	50.0	-	21.8	1090.0	
26	BILGE SYSTEM	PIPE SEAMLESS CS	DN65	ANSI B36.10	ASTM A106 Gr.B	10.0	-	8.6	86.0	
27	BILGE SYSTEM	PIPE SEAMLESS CS	DN50	ANSI B36.10	ASTM A106 Gr.B	5.0	-	5.4	27.0	
37	BILGE SYSTEM	ELBOW LR 90 DEG.	DN125	ANSI B16.9	ASTM A234 WPB	-	6	6.5	39.0	
38	BILGE SYSTEM	ELBOW LR 90 DEG.	DN80	ANSI B16.9	ASTM A234 WPB	-	2	2.5	5.0	
39	BILGE SYSTEM	ELBOW LR 90 DEG.	DN65	ANSI B16.9	ASTM A234 WPB	-	12	2.0	24.0	
40	BILGE SYSTEM	FLANGE SOFF	DN125	EN1092-1	EN 10222-2	-	20	5.4	108.0	
45	BILGE SYSTEM	DOUBLER PLATE FOR PENETRATION	DN125	-	STEEL	-	12	0.0	0.0	
46	BILGE SYSTEM	DOUBLER PLATE FOR PENETRATION	DN200	-	STEEL	-	1	0.0	0.0	
47	BILGE SYSTEM	BUTTERFLY VALVE ELECTRIC OPERATED	DN125	DIN	CAST IRON /BRONZE	-	6	17.5	105.0	Ex. Rated Actuator

		(LUG TYPE)								
48	BILGE SYSTEM	BUTTERFLY VALVE ELECTRIC OPERATED (LUG TYPE)	DN80	DIN	CAST IRON /BRONZE	-	2	13.6	27.2	Ex. Rated Actuator
49	BILGE SYSTEM	SWING CHECK VALVE	DN125	DIN	CAST IRON /BRONZE	-	6	35.0	210.0	
50	BILGE SYSTEM	SWING CHECK VALVE	DN80	DIN	CAST IRON /BRONZE	-	2	20.0	40.0	
51	BILGE SYSTEM	SDNR VALVE	DN65	DIN	CAST IRON /BRONZE	-	10	20.0	200.0	
52	BILGE SYSTEM	STRUM BOX	DN125	DIN	STEEL (GALV.)	-	6	5.0	30.0	
53	BILGE SYSTEM	STRUM BOX	DN80	DIN	STEEL (GALV.)	-	2	4.0	8.0	
54	BILGE SYSTEM	STRUM BOX	DN65	DIN	STEEL (GALV.)	-	10	3.0	30.0	
57	FIRE & DECK WASH	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	160.0	-	16.1	2572.8	
58	FIRE & DECK WASH	PIPE SEAMLESS CS	DN50	ANSI B36.10	ASTM A106 Gr.B	20.0	-	5.4	108.8	
59	FIRE & DECK WASH	ELBOW LR 90 DEG.	DN100	ANSI B16.9	ASTM A234 WPB	-	10	3.9	39.0	
60	FIRE & DECK WASH	ELBOW LR 90 DEG.	DN50	ANSI B16.9	ASTM A234 WPB	-	10	0.3	3.0	
61	FIRE & DECK WASH	FLANGE SOFF	DN100	EN1092-1	EN 10222-2	-	60	4.4	263.4	
62	FIRE & DECK WASH	FLANGE SOFF	DN50	EN1092-1	EN 10222-2	-	10	2.7	27.0	
63	FIRE & DECK WASH	FIRE HYDRANT VALVE	DN50	DIN	CAST IRON/BRONZE	-	8	10.4	83.2	
64	FUEL OIL SYSTEM	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	30.0	-	16.1	482.4	
65	FUEL OIL SYSTEM	PIPE SEAMLESS CS	DN32	ANSI B36.10	ASTM A106 Gr.B	15.0	-	3.4	50.9	
66	FUEL OIL SYSTEM	ELBOW LR 90 DEG.	DN100	ANSI B16.9	ASTM A234 WPB	-	10	3.9	39.0	
67	FUEL OIL SYSTEM	FLANGE SOFF	DN100	EN1092-1	EN 10222-2	-	10	4.4	43.9	
68	FUEL OIL SYSTEM	FLANGE SOFF	DN32	EN1092-1	EN 10222-2	-	6	1.8	10.9	
69	FUEL OIL SYSTEM	BUTTERFLY VALVE ELECTRIC OPERATED (LUG TYPE)	DN100	DIN	CAST IRON /BRONZE	-	2	16.0	32.0	Ex. Rated Actuator
70	FUEL OIL SYSTEM	BUTTERFLY VALVE ELECTRIC OPERATED (LUG TYPE)	DN32	DIN	CAST IRON /BRONZE	-	2	7.2	14.4	Ex. Rated Actuator

71	FUEL OIL SYSTEM	DOUBLER PLATE FOR PENETRATION	DN100	-	STEEL	-	4	0.0	0.0	
72	FUEL OIL SYSTEM	DOUBLER PLATE FOR PENETRATION	DN32	-	STEEL	-	2	0.0	0.0	
73	SANITARY SUPPLY SYSTEM	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	150.0	-	16.1	2412.0	
74	SANITARY SUPPLY SYSTEM	PIPE SEAMLESS CS	DN50	ANSI B36.10	ASTM A106 Gr.B	180.0	-	3.4	612.0	
75	SANITARY SUPPLY SYSTEM	ELBOW LR 90 DEG.	DN100	ANSI B16.9	ASTM A234 WPB	-	14	3.9	54.6	
76	SANITARY SUPPLY SYSTEM	ELBOW LR 90 DEG.	DN50	ANSI B16.9	ASTM A234 WPB	-	8	0.3	2.4	
77	SANITARY SUPPLY SYSTEM	FLANGE SOFF	DN100	EN1092-1	EN 10222-2	-	10	4.4	43.9	
78	SANITARY SUPPLY SYSTEM	FLANGE SOFF	DN50	EN1092-1	EN 10222-2	-	6	2.7	16.2	
79	SANITARY SUPPLY SYSTEM	BALL VALVE	DN15	DIN	CAST IRON /BRONZE	-	8	1.8	14.4	
80	SCUPPER & DRAIN SYSTEM	PIPE SEAMLESS CS	DN100	ANSI B36.10	ASTM A106 Gr.B	35.0	-	22.3	780.5	
81	SCUPPER & DRAIN SYSTEM	DECK SCUPPER FOR WEATHER DECK	DN100	-	STEEL	-	10	2.7	27.0	
82	COMPRESSED AIR SYSTEM	PIPE SEAMLESS CS	DN25	ANSI B36.10	ASTM A106 Gr.B	120.0	-	2.5	300.0	
83	COMPRESSED AIR SYSTEM	PIPE SEAMLESS CS	DN15	ANSI B36.10	ASTM A106 Gr.B	40.0	-	1.3	50.8	
84	COMPRESSED AIR SYSTEM	FLANGE SOFF	DN25	EN1092-1	EN 10222-2	-	40	1.1	44.4	
85	COMPRESSED AIR SYSTEM	FLANGE SOFF	DN15	EN1092-1	EN 10222-2	-	10	0.7	6.7	
86	COMPRESSED AIR SYSTEM	BALL VALVE	DN15	DIN	CAST IRON /ST.STEEL	-	8	1.8	14.4	
87	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN200	ANSI B36.10	ASTM A106 Gr.B	70.0	-	64.6	4524.8	
88	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN200	ANSI B36.10	ASTM A106 Gr.B	360.0	-	42.6	15318.0	
89	AIR VENT, SOUNDING & OVERFLOW	PIPE SEAMLESS CS	DN125	ANSI B36.10	ASTM A106 Gr.B	5.0	-	31.0	154.9	

	LINES									
90	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN125	ANSI B36.10	ASTM A106 Gr.B	5.0	-	21.8	108.9	
91	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN80	ANSI B36.10	ASTM A106 Gr.B	25.0	-	15.3	382.5	
92	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN40	ANSI B36.10	ASTM A106 Gr.B	24.0	-	4.1	97.2	
93	AIR VENT, SOUNDING & OVERFLOW LINES	PIPE SEAMLESS CS	DN32	ANSI B36.10	ASTM A106 Gr.B	120.0	-	3.4	406.8	
94	AIR VENT, SOUNDING & OVERFLOW LINES	ELBOW LR 90 DEG.	DN200	ANSI B16.9	ASTM A234 WPB	-	20	20.3	406.0	
95	AIR VENT, SOUNDING & OVERFLOW LINES	FLANGE SOFF	DN200	EN1092-1	EN 10222-2	-	60	9.3	556.2	
96	AIR VENT, SOUNDING & OVERFLOW LINES	FLANGE SOFF	DN125	EN1092-1	EN 10222-2	-	8	5.4	43.3	
97	AIR VENT, SOUNDING & OVERFLOW LINES	FLANGE SOFF	DN80	EN1092-1	EN 10222-2	-	20	3.6	72.0	
98	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN200	-	STEEL	-	30	20.0	600.0	
99	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN125	-	STEEL	-	2	9.0	18.0	
100	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN125	-	STEEL	-	2	9.0	18.0	
101	AIR VENT, SOUNDING & OVERFLOW LINES	AIR VENT HEAD	DN80	-	STEEL	-	10	4.0	40.0	
102	AIR VENT, SOUNDING & OVERFLOW LINES	SOUNDING CAP	DN40	-	STEEL	-	2	0.0	0.0	
103	AIR VENT, SOUNDING & OVERFLOW LINES	SOUNDING CAP	DN32	-	STEEL	-	40	0.0	0.0	

104	AIR VENT, SOUNDING & OVERFLOW LINES	SOUNDING CAP	DN32	-	STEEL	-	2	0.0	0.0	
105	AIR VENT, SOUNDING & OVERFLOW LINES	SLEEVE PENETRATION	DN200	ANSI B16.9	ASTM A106 Gr.B	-	60	8.3	497.4	
106	AIR VENT, SOUNDING & OVERFLOW LINES	SLEEVE PENETRATION	DN125	ANSI B36.10	ASTM A106 Gr.B	-	4	3.4	13.6	
107	AIR VENT, SOUNDING & OVERFLOW LINES	SLEEVE PENETRATION	DN80	ANSI B36.10	ASTM A106 Gr.B	-	20	2.8	56.6	
108	CO2 SYSTEM	PIPE SEAMLESS CS	DN40	ANSI B36.10	ASTM A106 Gr.B	160.0	-	4.1	648.0	
109	CO2 SYSTEM	PIPE SEAMLESS CS	DN25	ANSI B36.10	ASTM A106 Gr.B	100.0	-	2.5	250.0	
110	CO2 SYSTEM	FLANGE SOFF	DN40	EN1092-1	EN 10222-2	-	30	2.1	62.4	
111	CO2 SYSTEM	FLANGE SOFF	DN25	EN1092-1	EN 10222-2	-	30	1.1	33.3	
112	ANTIFREEZIN G SYSTEM	PIPE SEAMLESS CS	DN25	ANSI B36.10	ASTM A106 Gr.B	160.0	-	2.5	400.0	
113	ANTIFREEZIN G SYSTEM	PIPE SEAMLESS CS	DN15	ANSI B36.10	ASTM A106 Gr.B	100.0	-	1.3	127.0	
114	ANTIFREEZIN G SYSTEM	FLANGE SOFF	DN25	EN1092-1	EN 10222-2	-	30	1.1	33.3	

NOTES:

- 1) This BOM covers Pipe and Pipe Fittings details in the cargo hold area and is only for reference
- 2) BOM is subjected to modifications as the Design progresses
- 3) BOM for Pipe supports, Fasteners, Small bore & Tubings and Speciality items are not included
- 4) STUB-IN's considered instead of standard Tee connections for CS pipes
- 5) Standard LR elbows considered for 2" and above
- 6) Supply & fitment of PE 100 Pipe and PE Pipe Fittings of cargo hold area will be under GRSE's scope.
- 7) Remote Controlled Valve (of Hoppe/ Besi /Honeywell make) will be supplied by GRSE, fitment to be done by vendor.
- 8) BOM is indicative and the small-bore pipes/ tubes and associated pipe fittings are not included.
- 9) **Material for Doubler plate for penetration, sleeve penetration etc. to be supplied & fabricated by vendor based on the issued drawing.**

Annexure-B - Draft QAP for Mega Hull Block Erection

Annexure-C - Shipbuilding practice

Annexure-D - SOTR for Plumbing

Annexure-D

SCOPE OF WORK FOR SYSTEM PIPING

1. **SCOPE WORK:** The scope of work for piping involves the following major activities:
 - a. Fabrication of pipes as per production and layout drawing.
 - b. Welding/ joining of pipes complying class rules & Maker recommendation
 - c. Pressure testing of pipes as per design document complying DNV class rules
 - d. Surface preparation (acid pickling, mechanical cleaning, galvanizing, flushing etc. as applicable) as per approved drawing
 - e. Fitment of pipes and fittings onboard. PSPC guidelines to be complied to protect painted surface, if completed.
 - f. Onboard testing of pipes complying DNV class rules
 - g. Final installation inspection complying DNV class rules and design documents.

2. **DETAILED SCOPE OF WORK:** The activities involved in executing the above tasks are as follows:

PART-I: FABRICATION, INSTALLATION AND TESTING OF SYSTEM PIPING

- A. **General.** The activities to be carried out are generally defined as below:
 - i. Lining out (as required) for fitment of DK/BHD/Tank pieces of all spaces.
 - ii. Marking, cutting of deck/ bulkhead/ tank openings, tack welding and running welding (by qualified welders) / installation of deck pieces / tank connections etc.
 - iii. Lifting of templates from site, as required.
 - iv. Fabrication of pipes as per the templates and pipe sketches. Edge preparation in accordance with various Specifications, Drawings and GRAQs to be carried out.
 - v. Preliminary installation of pipelines including valves and all other fittings. Pipes / flanges elbows, T-Pieces are to be in tack welded condition for adjustment on-board as required. Pipe clamps are to be installed in position.
 - vi. Preparation of gaskets from rolled sheets is to be done.
 - vii. Pressure gauge connection of equipment, if required to be shifted / erected, is to be done.

- viii. Complete welding of pipes flanges (in case of weldable type flanges only), bends, elbows, reducers etc in the ship or on-board.
- ix. Pressure testing of pipes in shop (including any NDT, if required) and on-board after fabrication are to be carried out. However, the pipe lines of following systems are excluded from shop pressure testing but the same are to be pressure tested on board at the same pressure that was recommended for shop testing pressure.

Air Intake & Exhaust System

- x. Pickling / cleaning / preservation / galvanizing of the pipes as per the specification in this document.
- xi. Final installation on-board including pipe clamps and connecting up the entire system. Any addition / alteration to install the same on board the ship considering site condition to be made. Temporary supports are to be removed after final installation.
- xii. Pressure testing of systems on board as mentioned in drawings.
- xiii. Painting of pipes with primer. Necessary primers have to be arranged by vendor.
- xiv. Modification, as suggested by quality assurance authorities during preliminary inspection, is to be carried out.
- xv. The shipyard will have to carry out Flushing of the system on board, wherever applicable as per the drawing.
- xvi. Fitment of tally plates on valves / fittings. Tally plates are to be arranged by the shipyard.
- xvii. Post trial defects rectification of the pipes and valves.
- xviii. After final welding of slip-on 'FSL' flanges with pipes if used, as per requirement of GRSE, flange face machining, if necessary is to be carried out as per drawing. Hence adequate precaution to be taken while lifting dimension of pipes on board.
- xix. Proper sequence of work is essential to prove that Plumbing systems are preserved & protected in totality for desired use. Proper upkeep, preservation & maintenance method is to be followed for all materials & Equipment used.

B. Fabrication of pipes: Following processes are involved in pipe fabrication:

- i. Pipe bending
- ii. Edge Preparation
- iii. Welding
- iv. Weld Dressing
- v. Chemical Cleaning & Galvanizing

C. Installation of Pipes Onboard by the Shipyard

- i. Weighing of the pipes, valves, strainers, clamps, bellows, flexibles, gauges (pressure, temperature & level) and other fittings shall be carried out and the weight shall be recorded prior to erection. The record of weight/ weight register shall be maintained and shared with the Berth officer.
- ii. All cleared pipe spools shall be installed on board as per the piping arrangement drawing initially on temporary supports.
- iii. Carryout the installation of pipes, valves, bellows, flanges, strainers, flexibles, flow meters and other fittings to complete the system. The Shipyard shall use temporary supports/clamps wherever required during installation.
- iv. On completion of installation, proper supports /clamps / T-pieces (as per recognized national /international standards) shall be provided as per normal ship building procedures and these are to be fully welded. Temporary supports shall be removed and surface shall be ground smooth.
- v. Use proper gaskets, fasteners for bolting the flanges, connectors, valves, clamps etc. as per drawing/specification.

D. Joining:

- aa) All pipes 40NB & above shall be flange joined.
- ab) For pipe sizes 32NB & below pipes shall be threaded union coupling (marine high duty).
- ac) Cu pipes shall be joined by Composite weld neck flange with copper inner collar & Galvanised steel backing flange to IS 2062 Gr B (galvanisation as per IS 2629).
- i. On completion of each system in all respect the system shall be offered for Installation Inspection (II) clearance to GRSE/Buyer rep./Class.

PART II: FABRICATION ,INSTALLATION OF OBD (UNDERWATER & ABOVE WATER) FITTINGS

Procedure for carrying out Fabrication, Installation of OBD (underwater & above water) fittings is given below:

- i) All OBD fittings are to assembled as SF pipe, welded at shop, hydrotesting, galvanizing & installation at site.
- ii) After installation inspection clearance, Hull valves are to be fitted to OBD & Sea tubes fitting as per approved procedure for underwater valves.
- iii) After installation of valves & supporting brackets, the entire assembly is to be pneumatic tested (HOSE TEST) at 100 Psi of air pressure.

E. TESTING OF PIPES:

a. Pre-erection:

- i. **NDT:** NDT of joints as specified in pipe drawing has to be carried out to check weld surface defects.
- ii. **Hydro-test:** All cleared spools shall be hydro tested for a pressure with testing fluid for a holding time as specified in drawing and the Shipyard shall offer the same for inspection.

b. Post erection

- i. Post Installation clearance and prior to pressure testing, the installed pipes shall be flushed with water or air till the system is clean from all impurities and to be offered to Inspection authority (WOT/Class).
- ii. Post flushing, the piping assembly shall be pressure tested to applicable standards. The testing pressure, testing fluid and the testing time shall be as per the drawing. The pressure testing is carried out for checking the leakages, strength of the joints and compactness of the system.
- iii. Making looping arrangement of piping assembly for pressure testing\flushing with necessary relief valves will be in the vendor's scope of work. Vendor has to carry out all the defect rectification observed during testing and do the retesting of the piping assemblies till it is cleared.
- iv. Upon completion of the pressure testing, purge out the system for removing testing medium completely and carry out installation including connecting with the equipment. Vendor has to obtain final installation clearance from GRSE/Buyer/Class.

F. GENERAL PROCEDURE:

- a. Prior to installation on board, the pipe spools shall be pre-fabricated at Shipyard's premises and shall be tested with suitable end connection. The ends of the pipe spools shall be thereafter adequately protected prior to transportation and installation onboard.
- b. Piping to be carried out as per respective layout drawings / pipe sketch issued by GRSE. Pipe sketches, based on 3D Model, will be supplied by GRSE for pipe sizes up to 40NB. Bending /Fabrication of pipes will have to be done by the sub-contractor as per these pipe sketches and pipe orientation is not to be altered unless recommended and approved by GRSE. Pipes below 40NB will have to be fabricated/ manufactured by the sub-contractor on the basis of templates to be lifted by shipyard from composite drawing / LOM.

- c. Pipe couplings (i.e. Flanges, Ermeto, MHD fittings, union nipple nut etc.) are generally not identified separately in the drawing. shipyard have to decide the location of fitment of such fitting depending upon the site condition & maintenance aspect.
- d. In case of any discrepancy observed during lining out and drawing, the shipyard is required to carry out work as per approved on-board lining out. Any doubt during installation of piping is to be recorded in register for scrutiny.
- e. Cutting of deck structure for installation of piping is in the scope of the Shipyard.
- f. While executing a job, if any already installed pipe, structure etc are required to be removed, the same shall be removed and reinstalled after completion of job.
- g. All pipe fitting including scuppers drain Cups, suction funnels, end caps shall be welded, bolted or screwed to pipes.
- h. The fitment of Valves, bellows, flanges, strainers, flexibles, flow meters, sensors and other fittings including deck/bulkhead fittings required to complete the various systems shall be in the scope of the Shipyard.
- i. All fabrication and erection work are to be carried out in accordance with good engineering and shipbuilding practices.
- j. All pipe ends / fabricated fittings open to atmosphere are to be properly cleaned and plugged after treatment of pipes.
- k. Pipe no. is to be indicated on each pipe by Punching, preferably on the flange.
- l. Complete laying and erection of the piping along with all fittings to be done by the shipyard as per system / layout drawings. Connection of piping with machinery, equipment, tanks etc. to be done by the shipyard as indicated in system/ layout drawing. Installation of all valves cocks, filters, flexible bellows, flanges, strainers, Dk / Bhd pieces, elbows, reducers, traps, manifold, sensor boss, drain plugs etc., which are in the pipe line is to be done by the shipyard with required fasteners, gaskets, clamps, supports, brackets, hangers for fixing above.
- m. Layouts are to be planned as per the drawings submitted and joints are to be selected and positioned to facilitate access to and removal of machinery and equipment. Open ends of relief discharges are to be readily seen and are to be arranged so as to avoid injury to personnel and damage to machinery by discharging fluid.
- n. For the fitted pipes, shall be drained, cleaned, prepared and suitably protected to prevent ingress of moisture.
- o. All machined surfaces shall be suitably protected against potential mechanical damage during transit.
- p. All fabricated spools, which are not installed at Shipyard premises shall be properly tagged, end covered and transported in pallets.

G. GRSE INPUT/SUPPLY:

Documents

- a. Schematic System Drawings
- b. System wise Pipe arrangement drawings in compartment

- c. Pipe sketches for manufacturing

Material

- d. Remote controlled valves

H. **STANDARDS AND CODES:** Applicable standards and codes shall be as indicated in the relevant drawings/documents.

I. **PRE-REQUISITES FOR EXECUTION OF THE JOB:**

- a. QAP: Shipyard(s)/Firm(s) shall prepare Quality Assurance Plan. Work can commence only on approval of QAP by GRSE/Buyer/Class. The QAP shall comprise of the following:

- Welder qualification.
- Weld procedure qualification.
- Inspection and Test Plan (ITP)

- b. **WPS/PQR:** The WPS/PQR shall be prepared by the Shipyard. All approved WPS/PQRs are to be submitted for acceptance by GRSE/ Buyer /Class.

- c. **WELDER QUALIFICATION:** Welders are to be qualified for piping materials from a Classification Agency by the Shipyard. The Qualification documents and certificates along with records shall be submitted by the Shipyard for review and acceptance by GRSE. If the Shipyard possess welders who are already qualified, the certificates and performance record of these welders shall be submitted to GRSE for review and acceptance. Work can commence only after acceptance of welder qualification by Class. Welder's qualification shall be at the cost the Shipyard.

- d. **Inspection Test Plan (ITP):** The Shipyard(s) shall submit ITP for approval of the same by Buyer/Class.

J. **MATERIAL:** All materials (except Remote Controlled Valves) that are required for fabrication and erection are to be procured by the sub-contractor. The list of items includes the following:

- a) **Pipes:** Pipes of various sizes with the following material as per the details indicated subsequently in this document: -

- b) **Pipe fittings:**

- All GRE/carbon/Stainless steel pipe fittings
- All copper nickel /copper fittings (capillary brazable or Butt welded) as per EEMUA.
- Grip couplings

- c) Bellows, flanges, flexibles, and other fittings including deck/bulkhead fittings required to complete the various systems

- d) **Gaskets:** All gaskets used in joining shall be of asbestos free material

e) Fasteners:

- i. Pipe supports with clamps (as per recognized national /international standards) duly galvanized.
- ii. All welding consumables as specified in the relevant (as per recognized national /international standards).
- iii. All materials required for testing.
- iv. Any material required directly or indirectly for carrying out the job, even though not mentioned above, has to be arranged by the Shipyard

K. **FACILITIES:** The facilities that are required for fabrication, installation and testing are to be arranged by the Shipyard. The facilities include but not limited to the following:

- a. All tools and tackles required for equipment / machinery installation viz. core-cutting machine with core cutter for drilling, drilling machines, Reamers, portable electric grinding machines, metal scrapping tools, hydraulic jacks, high accuracy spirit level required as per specification /drawing, master level gauge, straight edge, blue tubes, temporary bolts & nuts/ jackscrews, welding machine with cable, gas cutting set, spanners/tool kit etc., In-situ machining as required etc.
- b. All tools and tackles with accessories required for carrying out fabrication/welding/installation of piping job like fitters' tools, welding machines, cables, welders kit, gas cutting set, heating torches, spanners/tool kit, electric power grinding machines, pipe bending machine with dies for diameter 2" and less, baking oven, portable oven etc.
- c. All tests and measuring instruments along with valid calibration certificate required for carrying out tests and trials of equipment / machinery / system, argon for TIG welding, Nitrogen/Carbon dioxide wherever required
- d. Filling tanks for pressure testing, Water (only at their premises) and air for testing, hoses, pumps, gauges, filling and pressurizing hand/motor/pneumatic pumps, calibrated pressure gauges with validity, temporary gaskets, rubber sheets, bolts and nuts, temporary connections for pressure testing, high-capacity oil flushing/pressurizing pump, filters etc. shall be in the scope of the Shipyard. etc for pressure testing and flushing at their premises.
- e. Materials for wire gauges, jigs, templates for fabricating pipes, argon gas for TIG welding, Nitrogen/Carbon dioxide wherever required
- f. All assistance, facilities, instruments for carrying out measurement / testing and inspection. GRSE reserves all rights to inspect any of the Shipyard operations to ensure conformity to the specification.
- g. Any other facilities required directly or indirectly for carrying out the job, even though not mentioned above, have to be arranged by the Shipyard.

L. WORK DONE CERTIFICATE(WDC):

- a. WDC shall be certified & issued by PMT post completion of the following:
 - i. Completion of PI at compartment level (50%)
 - ii. OBPT at compartment level (30%)
 - iii. II of entire system (10%)
 - iv. Defect rectification after II (10%)
- b. WDC shall be issued after completion of each activity and payment shall be as per WDC. The Shipyards shall submit the relevant WDC associated with stage inspections during stage payments.

M. QUANTUM OF WORK: Approximate quantum of work is as per BOQ

SPECIFICATION OF PICKLING

- a) Steel, Copper and Cu Ni Pipes are to be cleaned by pickling after completion of bending, brazing or welding on flanges or coupling and shop pressure testing.
- b) A preliminary examination of the internal conditions of pipes is to be carried out first to assess the extent of dirt etc. and to decide upon cleaning by pickling. If fresh new Copper and Copper Nickel pipes are available, these may be satisfactorily cleaned by washing with soap solution only after removing brazing / welding burrs.
- c) Prior to pickling, all pipes are to be degreased. Cleaning of MS pipes may be carried out with N.C. Thinner depending on the conditions of pipes. Degreasing is to be carried out in hot chamber of TCE or alternatively washing with sl i. and / or sl ii below:
 - i. Petroleum.
 - ii. Recipe made up of caustic soda [20-30 gm / ltr], sodium triphosphate [50-60 gm / ltr] and soda ash [50-100gm /ltr].

Strength and components of the recipe are to be adjusted depending on the extent of contamination present.

Normal processing time for degreasing is 30 min and may go up to 1 hr. to 3 hrs. This may be decided at site depending on the conditions of pipes.

Degreasing is effectively done if pipe are further cleaned by drawing wire / twine with cloth through the pipes.

After degreasing, pipes are to be cleaned with water (preferably with hot water (at 50°C to 90°C) & then with cold water.

After degreasing, pickling and de-scaling are to be carried out by immersion in 30% hydrochloric acid for steel pipes and nitric / sulphuric acid for Copper and Copper alloy pipes at a temp. of 25°C to 50°C and subsequent cleaning by wire brush / wet emery paper (HD paper) / stockinet cloth in wet condition for removal of all scales and foreign matters loosened during pickling. Flux and soleplate deposits are also to be removed.

- d) Time of immersion is to be one hour to two hours. Duration is to be decided considering physical condition of pipe.
- e) Strength of solution and duration of immersion should be commensurate with hygiene of the pipes. However, suitable inhibitor is to be added to the acid solution so that base metal is not affected. Periodic inspection is to be made to ensure the earliest possible removal of the pipe components from the pickling bath consistent with completion of the cleaning process.
- f) Frequent checking of strength of acid is to be made and the same is to be discarded when the iron content of both have risen to such an extent as to retard seriously the rate of pickling. The limiting iron content is of the order of 35 gms/ lit for hydrochloride acid pickling.
- g) After removal of pipes from pickling bath, pipes are to be thoroughly washed. Neutralization by wiping with hot alkaline solution followed by washing in cold running water for approx. 30 minutes to remove all traces of acid is also to be carried out.
- h) Pipes are to be properly dried after final wash, preferably by blowing through dry air.
- i) Subsequent to water wash and proper drying, the cleaned steel pipes are to be preserved within 24 hrs (max.) by applying protective coating as follows on both internal and external surfaces to prevent recurrences of rusting.

i.	Internal of Steel Pipes for Fuel oil system	-	Heavy Filtered Mineral Oil / RP 62 / Lubrex 22 with Servogem- 2 or equivalent
ii.	Internal of Steel Pipes for Hydraulic oil system	-	OM33/OMD 113
iii	Internal of Steel Pipes for ME FW cooling	-	Linseed Oil
iv.	Outer surface is to be painted with primer coat		
- j) After application of protective coating on steel pipes and pickling / drying of copper & Cu/Ni pipes, both ends of the pipes are to be suitably sealed by plastic / polythene covers to avoid ingress of any dirt or moisture. The seals should never come out in subsequent handling till installation on board.
- k) Identification marks are to be stamped / punched on flanges with the fabricated pipes and should not be tampered during the whole process.

Note: MS Pipes are to be burnt out for removal of paint, lacquer etc. if any prior to degreasing.

PROCEDURE FOR GALVANISING

Pipes requiring galvanizing will be as per system drawing.

Pipes may be fully galvanized or externally galvanized.

Galvanizing will be carried out as per BS EN 10240/ IS2629 with minimum thickness of Zinc coating 90 micron.

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GARDEN REACH SHIPBUILDERS & ENGINEERS LTD.

गार्डन रीच शिपबिल्डर्स एण्ड इंजीनियर्स लिमिटेड

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ANNEXURE-1B: BILL OF QUANTITIES

NIT SLA No / निविदा संख्या:	SCC/SM/NIC/LT/BLK ERECT/022/ET-000
Job Title / कार्य का नाम	TURNKEY SUBCONTRACTING OF MEGA HULL BLOCK ERECTION (PART-1) OF MPVS, YD.NO.3050-57 & OTHER PROJECTS.
SOR No:	MPVs/H/01, Rev.9a Dated: 19-APR-2025 (Annexure-1A)
Tender issuing Dept. / बिभाग द्वारा जारी	Contract Cell (संविदा बिभाग)

- (a) BOQ given in the tender is tentative. The L1 Bidder has to submit break-up of the quoted Price for all the line items, failing which their offer will be rejected. GST has to be indicated separately in the break-up prices.
- (b) Quantity may vary according to actual requirement of job during the period of the contract. The selected Bidders has to execute the required quantity at same rate and terms & condition as per requirement of GRSE.
- (c) Similarly, the quantity of individual items as well as total job value may be reduced also as per GRSE project requirement.
- (d) In case of GEM Tender detailed price breakup indicating **GST HSN/SAC Code & Percentage** as per this BoQ is to be uploaded in Portal along with price offer (Part II) in letterhead of the bidder.
- (e) The tentative quantity is as detailed below: -

BOQ is as follows:

Item Sl. No.	Job Description	UOM	QUANTITY FOR 01 SHIP	TOTAL QUANTITY FOR 08 SHIPS	SAC	GST PERCENTAGE
A	FOR SERVICE					
10	SERVICE_ERECTION OF MEGA HULL BLOCK MPV	M	2,500	20,000		
20	SER_CABLE TRAY LAYING	M	3,000	24,000		
30	SERVICE_PIPING WORK PE 100	CMM	12000	96,000		
40	SERVICE_PIPING WORK STEEL	CMM	23,000	1,84,000		
50	SERVICE_OF FITMENT MANHOLE/LADDER	EA	235	1,880		
60	SERVICE_OF FITMENT DPP/TPP	EA	430	3,440		
B	FOR SUPPLY ITEMS					
10	168.3ODX7.11THK SMLS ST PIPE_ASTM-A106GB	M	30	240		
20	88.9ODX5.49THK SMLS ST PIPE_ASTMA106GR B	M	30	240		
30	150 NB STEEL ELBOW,90° (LR)	EA	28	224		
40	80 NB STEEL ELBOW ,90° (LR)	EA	28	224		
50	150NB CARBON STEEL SLIP ON FLANGE PN 10	EA	46	368		
60	80NB CARBON STEEL SLIP ON FLANGE PN 10	EA	44	352		
70	200NBX150NB, STEEL REDUCER	EA	30	240		
80	141.3ODX6.55THK SMLS ST PIPE_ASTM-A106GB	M	50	400		
90	73ODX5.16THK SMLS ST PIPE_ASTM-A106G-B	M	10	80		
100	60.3ODX3.91THK SMLS ST PIPE_ASTM-A106G-B	M	5	40		
110	125 NB STEEL ELBOW, 90° (LR)	EA	6	48		

120	80 NB STEEL ELBOW ,90° (LR)	EA	2	16		
130	65 NB STEEL ELBOW ,90° (LR)	EA	12	96		
140	125NB CARBON STEEL SLIP ON FLANGE PN 10	EA	20	160		
150	ELEC OPTD BUTTERFLY V/V_LUG_DN125_SW	EA	6	48		
160	ELEC OPTD BUTTERFLY V/V_LUG_DN80_SW	EA	2	16		
170	DN125 NR V/V_BODY-CI_TRIM-BRONZE FLANGED	EA	6	48		
180	DN80 NR V/V,BODY-CI, TRIM-BRONZE FLANGED	EA	2	16		
190	DN65 SDNR V/V, BODY-CI, TRIM-BRONZE FLG	EA	10	80		
200	125 NB STRUM BOX,MS(GALV)	EA	6	48		
210	80 NB STRUM BOX, MS(GALV)	EA	2	16		
220	65 NB STRUM BOX,MS(GALV)	EA	10	80		
230	114.3ODX6.02TK SMLS ST PIPE_ASTM-A106G-B	M	160	1,280		
240	60.3ODX3.91THK SMLS ST PIPE_ASTM-A106G-B	M	20	160		
250	100 NB STEEL ELBOW , 90° (LR)	EA	10	80		
260	50 NB STEEL ELBOW, 90° (LR)	EA	10	80		
270	100NB CARBON STEEL SLIP ON FLANGE PN 10	EA	60	480		
280	50NB CARBON STEEL SLIP ON FLANGE PN 10	EA	10	80		
290	DN50 HYDRNT VV IHC_F,BODY-CI,TRIM-BRONZE	EA	8	64		
300	114.3ODX6.02TK SMLS ST PIPE_ASTM-A106G-B	M	30	240		
310	42.2ODX3.56THK SMLS ST PIPE_ASTM-A106G-B	M	15	120		
320	100 NB STEEL ELBOW , 90° (LR)	EA	10	80		
330	100NB CARBON STEEL SLIP ON FLANGE PN 10	EA	10	80		
340	32NB CARBON STEEL SLIP ON FLANGE PN 10	EA	6	48		
350	ELEC OPTD BUTTERFLY V/V_LUG_DN100_FO	EA	2	16		
360	ELEC OPTD BUTTERFLY VALVE_LUG_DN32_FO	EA	2	16		
370	114.3ODX6.02TK SMLS ST PIPE_ASTM-A106G-B	M	150	1,200		
380	60.3ODX3.91THK SMLS ST PIPE_ASTM-A106G-B	M	180	1,440		
390	100 NB STEEL ELBOW , 90° (LR)	EA	14	112		
400	50 NB STEEL ELBOW, 90° (LR)	EA	8	64		
410	100NB CARBON STEEL SLIP ON FLANGE PN 10	EA	10	80		
420	50NB CARBON STEEL SLIP ON FLANGE PN 10	EA	6	48		
430	DN15 BALL V/V, BODY-CI, TRIM-BRONZE FLG	EA	8	64		
440	114.3ODX8.56TK SMLS ST PIPE_ASTM_A106G_B	M	35	280		
450	100NB STEEL GALV DK.SCUPR HD_BOTTOM FLG	EA	10	80		
460	33.4ODX3.38THK SMLS ST PIPE_ASTM-A106G-B	M	120	960		
470	21.3ODX2.77THK SMLS ST PIPE_ASTM-A106G-B	M	40	320		
480	25NB CARBON STEEL SLIP ON FLANGE PN 10	EA	40	320		
490	15NB CARBON STEEL SLIP ON FLANGE PN 10	EA	10	80		
500	DN15 BALL V/V, BODY-CI, TRIM-SS_FLANGED	EA	8	64		
510	219.1X12.7 SMLESS ST PIPE_ASTM-A-106-B	M	70	560		
520	219.1ODX8.18TK SMLS ST PIPE_ASTM_A106G-B	M	360	2,880		
530	141.3ODX9.53TK SMLS ST PIPE_ASTM-A-106-B	M	5	40		
540	141.3ODX6.55THK SMLS ST PIPE_ASTM-A106GB	M	5	40		
550	88.9 ODX7.62TK SMLS ST PIPE_ASTM_A106G_B	M	25	200		
560	48.3ODX3.68THK SMLS ST PIPE_ASTM-A106G-B	M	24	192		
570	42.2ODX3.56THK SMLS ST PIPE_ASTM-A106G-B	M	120	960		
580	200 NB STEEL ELBOW, 90° (LR)	EA	20	160		
590	200NB CARBON STEEL SLIP ON FLANGE PN 10	EA	60	480		
600	125NB CARBON STEEL SLIP ON FLANGE PN 10	EA	8	64		
610	80NB CARBON STEEL SLIP ON FLANGE PN 10	EA	20	160		

620	200NB BALL FLOAT VV W/O ANTI FLASH ARRGT	EA	30	240		
630	125NB BALL FLOAT V/VWITH ANTI FLSH ARRGT	EA	2	16		
640	65NB BALL FLOAT V/V W/O ANTI FLASH ARRGT	EA	2	16		
650	80NB BALL FLOAT V/V W/O ANTI FLASH ARRGT	EA	10	80		
660	48.3ODX3.68THK SMLS ST PIPE_ASTM-A106G-B	M	160	1,280		
670	33.4ODX3.38THK SMLS ST PIPE_ASTM-A106G-B	M	100	800		
680	40NB CARBON STEEL SLIP ON FLANGE PN 10	EA	30	240		
690	25NB CARBON STEEL SLIP ON FLANGE PN 10	EA	30	240		
700	33.4ODX3.38THK SMLS ST PIPE_ASTM-A106G-B	M	160	1,280		
710	21.3ODX2.77THK SMLS ST PIPE_ASTM-A106G-B	M	100	800		
720	25NB CARBON STEEL SLIP ON FLANGE PN 10	EA	30	240		
730	WATER TIGHT MANHOLE 600X400_OF2-H-18	EA	32	256		
740	OIL TIGHT MANHOLE 600X400_TYPE OF2-H-18	EA	2	16		
750	WATER TIGHT MANHOLE 600X400_TPE OF2-H-10	EA	30	240		
760	WATER TIGHT MANHOLE 600X400_TYPE OL1-H	EA	33	264		
770	OIL TIGHT MANHOLE 600X400_TYPE OL1-H	EA	2	16		
780	CONTINGENCY SPARE: HEXAGONAL NUTS	EA	150	1,200		
790	V.LADDER,MS GALV,993L,400W,22RUNG,TYP A	EA	34	272		
800	V.LADDER,MS GALV,4865L,400W,22RUNG,TYP A	EA	37	296		
810	V.LADDER,MS GALV,1478L,400W,22RUNG,TYP A	EA	35	280		
820	V.LADDER,MS GALV,1328L,400W,22RUNG,TYP A	EA	30	240		
830	40NB SOUNDING HEAD WITH CAP&CHAIN_MS(GI)	EA	2	16		
840	32NB SOUNDING HEAD WITH CAP&CHAIN_MS(GI)	EA	40	320		
850	32NB SOUNDING HEAD WITH CAP&CHAIN_MS(GI)	EA	2	16		

L1 offer shall be evaluated on TOTALITY BASIS through REVERSE AUCTION.

Note:

- (i) Rate to be quoted in INR only
- (ii) UOM- Unit of Measurement

Unpriced copy of the Price breakup indicating the GST SAC/HSN Code & GST percentage is to be uploaded along with the Techno-commercial offer (Part-I). – Applicable for GEM Tender only.

The bid shall not be considered if Price is indicated in any part of Techno-commercial offer (Part-I).

Price breakup in provided EXCEL format is to be enclosed along with Part-2 (Price Offer) after filling up the prices. Price offer without the breakup may not be considered. – Applicable for GEM Tender only.



GARDEN REACH SHIPBUILDERS & ENGINEERS LTD.

गार्डन रीच शिपबिल्डर्स एण्ड इंजीनियर्स लिमिटेड

(A GOVERNMENT OF INDIA UNDERTAKING) / (भारत सरकार का प्रतिष्ठान)

Address: 61, Garden Reach Road, Kolkata-700 024 61, गार्डन रीच रोड, कोलकाता-700 024

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CIN / सी आई एन: L35111WB1934GOI007891

ANNEXURE 1C: PAYMENT TERMS

NIT SLA No / निविदा संख्या:	SCC/SM/OPEN/LT/BLK ERECT/022/ET-000
Job Title / कार्य का नाम	TURNKEY SUBCONTRACTING OF MEGA HULL BLOCK ERECTION (PART-1) OF MPVS, YD.NO.3050-57 & OTHER PROJECTS.
SOR No:	MPVs/H/01, Rev.9a Dated: 19-APR-2025 (Annexure-1A)
Tender issuing Dept. / बिभाग द्वारा जारी	Contract Cell (संविदा बिभाग)

1. Payment Terms भुगतान की शर्तें:

A. Payment Term for Supply of Items (as per Annexure-AA of SOTR):

- 90% payment (with full GST) will be paid within 30 days of Delivery of items of each category (as per line items' list at Annexure-AA) and supported by inspection notes issued by GRSE as per technical specifications and delivery challans at GRSE.
- Balance 10% payment (with full GST) will be released after expiry of guarantee period /one-year post delivery, duly certified by the bill approving authority_ PL /Nominated Rep. GRSE-PMT.

B. Payment Term for Service Items:

- 90% payment (with full GST) will be paid within 30 days of receipt of bill (in 03 copies) duly certified by Bill Certifying Authority, PL /Nominated Rep. GRSE-PMT & supported with satisfactory Work Done Certificate. Recoverable from contractor, if any, is to be adjusted from 90% payment as per certification of Bill Certifying Authority- PL /Nominated Rep. GRSE-PMT.
- 10% of the certified bill amount will either be retained from each bill as performance guarantee amount and the same will be released after expiry of guarantee period duly certified by the bill approving authority as per SOTR or be paid against submission of Performance Bank Guarantees of equivalent amounts valid till expiry of Guarantee period. Material Reconciliation Statement, if any is to be submitted to claim against this 10% balance payment.
- Payment will be made on actual certification basis.
- Payment to be claimed, against submission of BG of equivalent amount from any Scheduled Bank, other than co-operative bank for each ship and the same should be valid till the tenure of contract plus 03 months, after achieving the above-mentioned stages.

2. Bill Certifying Authority बिल प्रमाणन प्राधिकर:

PL /Nominated Rep. of GRSE-PMT.

3. Bill Submission बिल प्रस्तुति:

- Invoice is to be raised after issue of Work Done / Completion Certificate.
- Bills are to be submitted along with supporting documents (Work Done Certificate etc.) at the Bill Receiving Counters located at the respective units of Company. Bill is to be submitted (in 03 copies) in sealed envelope super-scribing on the envelope the Purchase Order No., Vendor code, Bill / Invoice No., Name of person /employee to whom bill is addressed, for processing. The Name of the person to be mentioned on sealed envelope will be the Bill certifying officer.

- c. The Vendor is required to submit along with the bill, a declaration (in letter head of the Vendor, signed & stamped by Authorized representative of the vendor) regarding compliance in terms of PF / ESIC & DEPOSIT OF RELATED STATUTORY DUES. Any false declaration in this regard shall deem the submitted bill as invalid and transaction fee as detailed below shall be charged.
- d. Transaction fee of Rs. 500.00 for first return & Rs. 1000.00 for subsequent return of bill with inappropriate documents will be charged.



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ANNEXURE -2: STANDARD TERMS & CONDITIONS (STAC) मानक निबंधन और शर्तें (एसटीएससी)

STC 1 Integrity Pact / समग्रता अनुबंध

- STC 1.1. All the participating vendors in this tender are required to enter into agreement by signing an Integrity Pact if mandated.
- STC 1.2. "The Pact essentially envisages as agreement between the prospective vendors/bidders and the buyer, committing the persons/officials of both the parties, not to exercise any corrupt influence on any aspect of the contract".
- STC 1.3. Signing of Integrity Pact will be preliminary qualification for participation of this tender, only those vendors who have entered into this Pact with GRSE will qualify for the contract. This Integrity Pact will be effective from the stage of invitation of bids till the date of complete execution of this contract.
- STC 1.4. Signing Authority for Integrity Pact:
- STC. 1.4.1. Vendor: Proprietor / Director / Authorized representative
- STC. 1.4.2. GRSE: Head of the Ordering Department, not below the rank of DGM / AGM
- STC 1.5. Vendors need to sign on each page of the Integrity Pact document and provide the same on a Govt. issued bond paper of Rs.100/-. The scanned copy of the same need to be uploaded along with the technical Bid documents and original copy of the same to be forwarded to Tendering Department before the due date of the tender.
- STC 1.6. The vendor has to submit Integrity Pact as per GRSE Format along with Techno-commercial bid, wherever applicable as per NIT.

STC 2 Micro & Small Enterprise (सूक्ष्म और छोटे उद्यम)

- STC 2.1. Purchase preference will be given to eligible Micro and Small Enterprise firms as per MSME Act on submission of valid Udyam Registration Certificate (URC) or NSIC copy along with their offer to claim the benefit. Tendered Service is to be listed in the URC or NSIC submitted else they are disqualified to avail the benefit.
- STC 2.2. Out of 25% target of annual procurement from MSEs, 4% (within the 25%) reservation will be provided for MSEs owned by Schedule Caste (SC) /Scheduled Tribe (ST) entrepreneurs and 3% (within the 25%) reservation will be provided for MSEs owned by women entrepreneurs. Necessary documents to be submitted along with the techno-commercial bid as evidence failing which benefit shall not be accorded. However, in the event of failure of such MSEs to participate in the tender process or meet the tender requirements and L1 price, 4% reservation for MSEs owned by SC/ST entrepreneurs and 3% reservation for MSEs owned by women entrepreneurs will be met from other MSEs.
- STC 2.3. Following facilities/benefits may be given to MSEs: -
- STC. 2.3.1. Exemption for payment of Tender Fee & Earnest Money Deposit.
- STC. 2.3.2. Relaxation in prior Turnover and prior Experience Criteria (Specially for Start Ups- Certificate of DIPP is required to Claim the benefit)
- STC 2.4.
- STC. 2.4.1. MSEs registered with MSME authority as stated above, quoting price within the band of L1 + 15% will be allowed to supply a portion of the requirement by bringing down their price to

L1 price in a situation where the L1 price is from someone other than MSE. Such MSEs will be allowed to supply at least 25% of total tendered value. To avail this purchase preference, submission of Udyam Registration Certificate /NSIC is mandatory failing which the benefit will not be accorded.

- STC. 2.4.2. In case L1 is not an MSE and there is more than one MSE within the range of L1 +15%, only the lowest MSE shall be considered for 25% order in case of divisible item or 100% in case the order quantity is not divisible, subject to matching the L1 prices.
- STC. 2.4.3. If the lowest MSE refuses to accept the L1 price, then the second lowest MSE within the range of L1 +15% will be considered. This process will continue till a MSE in the range accepts the L1 price or the MSEs in the L1 + 15% range are exhausted.
- STC. 2.4.4. In case no MSE accepts the L1 price or there is no MSE available in the L1 +15% range, then the order shall be placed to the L1 bidder without applying this principle.
- STC 2.5. Non-Divisibility of Tender Items: - In case of non-divisible / non-splittable item in tenders, an MSE quoting in the price band of L1+15% may be awarded for full/complete supply of total tendered value, considering the spirit of policy for enhancing the government procurement from MSEs subject to matching the L1 prices by the MSE concerned. However, contract will be awarded as per GOI policy and at discretion of GRSE.
- STC 2.6. To qualify for entitlement as SC/ST owned MSE, the SC/ST certificate issued by the District Authority must be submitted along with the offer or the same should be indicated in the relevant document NSIC / Udyam Registration Certificate.
- STC 2.7. For the MSEs owned by SC/ST owned entrepreneur, the benefits as stated above shall be accorded only in the following cases:
- STC. 2.7.1. For proprietary MSE, proprietor(s) shall be SC/ST.
- STC. 2.7.2. For partnership MSE, the SC/ST partners shall be holding at least 51% shares in the unit.
- STC. 2.7.3. For Private Limited Companies, at least 51% share shall be held by SC/ST promoters.

STC 3 Tender Fee (निविदाशुल्क)

- STC 3.1. Amount of declared non-refundable tender fee is to be submitted in the form of Demand Draft / Pay Order, Payable at Kolkata and issued in favour of "Garden Reach Shipbuilders & Engineers Limited" by any Nationalized/Scheduled Bank other than Co-operative Bank. Physical DD/PO to be forwarded to Tendering Department of GRSE within 07 days of tender due date. A scanned copy of the same is to be uploaded as an attachment to the PART-I of e-bid submission.
- STC 3.2. MSE registered firms having the tendered service listed in their MSE document will be eligible for exemption of tender fee. To claim the exemption, a copy of the valid MSE certificate with its annexure is to be scanned and uploaded as an attachment to the PART I of e-bid submission. The same is to be confirmed in the techno-commercial concurrence format.
- STC 3.3. Exemption of Tender Fee is not applicable for JV / Consortium even if all the parties of the JV / Consortium are eligible for such exemption on individual basis.
- STC 3.4. Non-submission of tender fee or a valid MSE / NSIC certificate may lead to offer rejection.

STC 4 EARNEST MONEY DEPOSIT (INTEREST FREE) बयाना जमा (ब्याज रहित)

- STC 4.1. Amount of declared interest free Earnest Money Deposit (EMD) is to be submitted in form of Demand Draft / Pay Order, Payable at Kolkata and issued in favour of "Garden Reach Shipbuilders & Engineers Limited" by any Nationalized/Scheduled Bank other than Co-operative Bank. Physical DD/PO to be forwarded to Tendering Department of GRSE within **05 days** of tender due date. A scanned copy of the same is to be uploaded as an attachment to the PART I e-bid submission.
- STC 4.2. EMD may also be submitted in the form of Bank Guarantee with six months validity as per enclosed GRSE format of Bank Guarantee and is to be forwarded directly to GM (Finance), GRSE in Bankers'

sealed envelope failing which same will not be accepted. Details of B.G. are to be in Techno-Commercial part of offer.

- STC 4.3. MSE registered firms having the tendered service listed in their MSE document will be eligible for exemption from submitting EMD. To claim the exemption a copy of the valid MSE certificate with its annexure is to be scanned and uploaded as an attachment to the General Document part of E-PROCUREMENT. The same is to be confirmed in the PART I concurrence format.
- STC 4.4. MSE Registered Firms has to be submit Bid Security Declaration In lieu of Earnest Money Deposit as per GRSE format.
- STC 4.5. Exemption of EMD is not applicable for JV / Consortium even if all the parties of the JV / Consortium are eligible for such exemption on individual basis.
- STC 4.6. Non-submission of EMD /Bid Security Declaration and valid MSE certificate may lead to rejection of offer.

STC 4.7. Refund of Earnest Money Deposits

- STC. 4.7.1. EMD of unsuccessful bidders will be refunded/ returned within 30 days of finalisation of order on surrendering the original copy of GRSE Money Receipt with an application by bidder addressed to HOD of Ordering Department, GRSE on receipt of intimation from GRSE.
- STC. 4.7.2. EMD of disqualified bidders in TNC/CNC will be returned within 30 days from the date of receipt of application along with original copy of Money Receipt from the bidder. EMD, if not claimed within 1 year from the date of notification EMD will be forfeited.
- STC. 4.7.3. EMD of successful bidder will be returned after receipt of security deposit against work order as per contractual terms.

STC 4.8. Forfeiture of Earnest Money Deposit (बयाना जमा की जब्ती): EMD may be forfeited under the following circumstances:

- STC. 4.8.1. The bidder withdraws the bid after opening of Price Bid during the period of validity of offer.
- STC. 4.8.2. The bidder does not accept the correction of error in bid price as indicated in Clause pertaining to **CORRECTION OF ERRORS** hereinafter.
- STC. 4.8.3. The successful bidder fails within the specifies time limit to:
- Acknowledge the LOA/Order
 - Furnish the required Security Deposit
 - Non-performance of the contract by the Contractor
 - If any registered vendor with Fixed EMD withdraws its bid prior to finalisation of the order and during the period of bid validity, the Fixed EMD as deposited by the vendor shall be liable to be forfeited.

STC 5 VALIDITY OF OFFER (प्रस्ताव की वैधता)

- STC 5.1. Offer should remain valid for a period of as per terms of specific NIT Terms & Requirements (90/120/180 days) from the due date of the tender.

STC 6 VENDOR'S CONFIRMATION W.R.T. LIMITED TENDER ENQUIRY

- STC 6.1. In case of Limited tender any bidder is not interested to quote, Vendor's confirmation of having received the tender but not willing to quote / regretting to quote, must be forwarded for GRSE reference & records. This should be treated as a requirement for the Vendor's name to be retained in GRSE's select list. In case where a particular Vendor has not responded to tender enquiry for more than 3 times, its name will be liable for de-registration.

STC 7 SECURITY DEPOSIT (INTEREST FREE) प्रतिभूति (ब्याज रहित)

- STC 7.1. Successful bidder will deposit an amount equivalent to the declared per cent of the total contract value as interest free Security Deposit (SD) in the form of Pay Order/D. D/Bank Guarantee (with validity of sixty days beyond contract period as per GRSE format) on any schedule bank other than Co-operative bank payable at Kolkata, duly crossed favouring Garden Reach Shipbuilders & Engineers Limited., within **15 days** from the date of site clearance/receipt of LOA or PO/as specified in the NIT. In case of non-submission of SD as per schedule, penal interest will be charged for delayed period of submission of SD beyond 15 days at the prevailing SBI cash credit rate on the amount of SD to be submitted.
- STC 7.2. If S.D is submitted in the form of B.G then same is to be forwarded directly to Gen. Mgr. (Finance) in Banker's sealed envelope failing which same will not be accepted. Details of B. G. should also be confirmed to Ordering Department, GRSE.
- STC 7.3. S.D. amount would be refunded / returned after successful execution of the job and certification of Material Reconciliation Statement by Internal Audit, if applicable. Vendor is to apply for release of their SD along with Job Completion Certificate which has to be certified by PL/ Engineer-in-charge /authorized representative of concerned department through GRSE Ordering Dept. In the event of failure to execute the order satisfactorily or default by the contractor/ sub-contractor, the security deposit will be forfeited.

STC 8 WORK DONE CERTIFICATE (W.D.C.) (किए हुए काम का प्रमाणपत्र)

- STC 8.1. Firm will put up Work Done for certification to site engineer /PL /or as specified in the NIT, along with clear inspection report signed by Quality Assurance Authority. W.D.C. is to include whether work has been completed as per delivery schedule or the delay in days/weeks occurred in completion of work.

STC 9 BILL SUBMISSION (बिल प्रस्तुति)

- STC 9.1. On obtaining WDC, bills are to be raised on monthly/quarterly/half-yearly/annually (as specified in NIT) progressive basis in accordance with the Checklist as per GRSE format. Bills are to be submitted at the Bill Receiving Counters located at the respective unit of Company. Bill is to be submitted (in 03 copies) in sealed envelope super-scribing on the envelope the Purchase Order No., Vendor code, Bill / Invoice No., Name of person /employee to whom bill is addressed, for processing. For this Service Name of the person to be mentioned on sealed envelope will be concerned Project Leader of the Ship/Bill certifying officer.
- STC 9.2. Transaction fee of Rs. 500.00 for first return & Rs. 1000.00 for subsequent return of bill with inappropriate documents will be charged.

STC 10 COMPLIANCE OF ESI & PF (ईएसआई और पीएफ का अनुपालन) / EMPLOYEE COMPENSATION POLICY

- STC 10.1. Compliance of ESI & PF of the engaged workman is the responsibility of the contractor.
- STC 10.2. For execution of job inside GRSE premises, vendor has to obtain clearance from HR Dept. regarding statutory compliance of minimum wages, PF, ESI, etc. of their engaged workmen for release of payment.
- STC 10.3. In case the employees engaged by the Contractor are out of the purview of ESI then they should be covered under Employee Compensation policy (covering benefits under EC Act). Further, it is suggested to cover the Contractor's employees under a Medclaim policy so that hospitalization benefit can be provided in case of any medical emergency arising during the course of employment.

STC 11 POLICE VERIFICATION FOR CONTRACT LABOUR WORKMEN (ठेका श्रमिकों का पुलिस सत्यापन)

- STC 11.1. Police Verification certificates of character antecedents in respect of all employees of Contractors/Sub-contractors for operating inside GRSE Ltd. are required to be submitted to Security Dept./GRSE Ltd. before processing of Gate Passes.

- STC 11.2. A certificate from the contractor's labour, clearly endorsing that characters of all his labourers have been duly verified and found to be satisfactory be submitted to GRSE at the time of making Gate Pass.
- STC 11.3. Photo Identity Card /Gate Pass as required by GRSE will be arranged by the contractor for his employees at his own cost.

STC 12 GST REGISTRATION (जी एस टी पंजीकरण)

- STC 12.1. The vendor will have to submit copy of GST registration certificate (Part A & Part B) along with the Technical bid. Any bidder without having GST Registration Certificate will not be considered for Ordering.

STC 13 GUARANTEE PERIOD (गारंटी अवधि)

- STC 13.1. Guarantee / Warranty is applicable for a Period of as stipulated in NIT Terms & Requirements from the date of completion of work.
- STC 13.2. Workmanship will be guaranteed for satisfactory performance for a period as stated in NIT. Any faulty work carried out by the sub-contractor is to be rectified by them within the time stipulated by the GRSE. In case of failure of sub- contractor to meet the ship's programme, outstanding deficiencies shall be rectified by GRSE and all costs of such work shall have to be borne by the sub-contractor).
- STC 13.3. During guarantee/ warranty period if any equipment or any component thereof supplied by the contractor, suffers due to defective material and/ or due to improper design and/ or due to defective drawing or due to faulty workmanship, the contractor will assume full responsibility of rectification of such defective equipment or component thereof including all direct expenses relating to removal and re-positioning of the replacement/ repaired equipment or component thereof and subsequent test & trial, incurred thereon without any financial implication to GRSE.

STC 14 PRICE (मूल्य)

STC 14.1. For Tender in NIC Portal (एन आई सी पोर्टल टेंडर हेतु)

- STC. 14.1.1. Price bid need to be filled up (excluding GST) in html format only through e-portal. No other attachment regarding price will be allowed, if so, then offer will be rejected. For break-up of prices, GRSE may attach excel sheet with the html format price bid and the bidder has to fill up their prices in excel sheet and also in html format as per instruction in NIT.

STC 14.2. For Tender in GeM Portal (जे ई एम पोर्टल टेंडर हेतु)

- STC. 14.2.1. Price bid needs to be filled up (with or without GST as specified in NIT) only through GeM portal for the total job.
- STC. 14.2.2. The Bidder may have to upload the breakup of their quoted price in line with BOQ, as specified in NIT, along with their price offer in GeM portal.
- STC. 14.2.3. The price should remain firm & fixed till satisfactory execution of the entire contract as per NIT. GST percentage has to be indicated in the offer. GST registration certificate for the service being tendered is to be enclosed with the techno-commercial bid. GST registration number is to be quoted in all bills.

STC 15 QUANTITY VARIATION (मात्रा भेद)

- STC 15.1. Quantity as specified in the NIT/SOTR/Price Bid is tentative and it may vary according to the actual requirement of the job. The selected bidder has to execute the required quantity at the same rate, terms & conditions as per requirement of GRSE during contract period including extended period. Necessary amendment of Purchase Orders will be issued accordingly.

STC 16 UNREASONABLE QUOTES अतर्कसंगत भा

STC 16.1. For Job Contract (कार्य संविदा हेतु)

- STC. 16.1.1. In case the price of L-1 Bidder is found to quote unreasonably low and/or express desires to withdraw from the tender then such bid will be cancelled and EMD will be forfeited and punitive action will be taken in line with the provision as per GRSE Vendor Policy.
- STC. 16.1.2. However, in case the L1 Bidder agrees to take-up the job with such unreasonable low quote, lower by 30% or more than estimate and also if the difference in price between L1 & L2 is 30% or more, then the quoted price to be analysed w.r.t tender requirement and if the L1 bidder fails to justify their quoted rate, the obtained L1 quote will be rejected and punitive action will be taken in line with the provision as per GRSE Vendor Policy.
- STC. 16.1.3. If the justification is acceptable to GRSE, then the bidder has to submit Bank Guarantee of 10% of the total Contract value (inclusive of GST) in addition to the Security Deposit (SD) and Performance Bank Guarantee (PBG) for execution of the job till satisfactory completion of entire contract. There shall be no exemption / relaxation for the Guarantee against unreasonable quote. In case of breach of contract GRSE shall reserve the right to invoke the BG and may impose tender holiday for a period as per GRSE Vendor policy.

STC 16.2. For Manpower Contract (श्रमशक्ति संविदा हेतु)

- STC. 16.2.1. The quoted price of the L1 bidder should comply with the prevailing Minimum Wages Act & Other Statutory requirements i.e PF, ESI etc.
- STC. 16.2.2. In case the quoted price of the L1 bidder is found unreasonably low i.e does not comply with the Minimum Wages Act & Other Statutory requirements and the L1 bidder fails to justify their quoted rate then the obtained L1 quote will be rejected and punitive action will be taken in line with the provision as per GRSE Vendor Policy.

STC 17 JOINT VENTURE (संयुक्त ऊधम)

- STC 17.1. The bids submitted by a joint-venture company of two or more firms/persons/entities as partners/promoters shall comply with the following requirements:
- STC. 17.1.1. The Joint Venture Agreement must be a registered document under the Indian Registration Act and must be an independent and registered entity under the Companies Act/Indian Partnership Act, having its own trade name and having separate CIN, PAN, GST and other Statutory Licenses/Registrations independent of its promoters/partners.
- STC. 17.1.2. All partners/promoters of the joint venture shall be liable jointly and severally for the execution/performance of the project/contract and for all sorts of contractual obligations, responsibilities and liabilities and consequences arising out of breach of terms and conditions of contract.
- STC. 17.1.3. A Certified/True copy of the Joint Venture Agreement shall have to be submitted with the bid along with the resolution of Board of Directors (in case of a company) or a Power of Attorney to be executed by all the Partners (in case of Partnership Firm) of JV entity authorizing such person who will sign on behalf of JV entity.
- STC. 17.1.4. Submission of EMD/SDs/Performance Guarantee etc., to be made by the Joint Venture Company/Firm and similarly all payments would also be remitted to/in favour of the JV entity.
- STC. 17.1.5. In order for a joint venture to qualify/meet the minimum criteria as may be specified in the Tender, the experience and financial capability of each of its promoters/ partners would be considered jointly to judge the experience and/or the financial capability of the JV entity as an independent entity. That is to say that the individual experience/qualification of each partner/promoter of the JV would be considered together for ascertaining the experience/qualification criteria of the JV. However, if any specific criteria/qualification is mentioned in the Tender that has to be met by each of the partners, then in such case each of the JV partner/promoters have to meet the same.
- STC. 17.1.6. Neither the JV entity nor any of its partners/promoters should have been blacklisted, banned or debarred from issuing any Tender or suffering Tender Holiday from participating in any Tender process of Government of India or any of its Agencies or by any State Government or

by an PSU (both Central & State included) or by any Court/Tribunal. If so, then the bid is liable to be rejected.

STC. 17.1.7. If selected, PO would be issued in favour of the JV.

STC 18 CONSORTIUM (अल्पकालीन संघटन)

STC 18.1. The bids submitted by a Consortium of two or more firms as partners shall comply with the following requirements:

- STC. 18.1.1. There must be a written Agreement for formation of the Consortium amongst its members which should inter alia include the role of each member, the ratio of investment and the ratio of profit/loss sharing. The terms of the Agreement cannot be modified post submission of the bid and during execution of Contract, if awarded, without the express consent of GRSE. The Consortium Agreement must record that as to which member would act as the Lead Member in the Contract/Tender. This authorization shall be evidenced by submitting with the bid a Power of Attorney authorizing such member to act on its behalf as Lead Member, signed by legally authorized signatories of all other partners/members.
- STC. 18.1.2. Each partner firm/company of a Consortium must legally authorize its representative who will represent the partner firm/company to sign and execute the Consortium Agreement and all other necessary papers/documents required for the formation of Consortium and all other purpose relating to activities of Consortium.
- STC. 18.1.3. The leader shall be authorized to incur liabilities and to receive instruction for and on behalf of any and all partners/members of the consortium and the entire execution of the contract and all other related documents shall be done under the supervision and involvement of the lead member.
- STC. 18.1.4. All partners of the consortium shall be liable jointly and severally for the execution of the project or contract without any limitation of liability. Any default or lapse on the part of any of the members of the Consortium regarding performance of the contract will be treated as default on the part of the Consortium as a whole and the Lead Member alone will be responsible for all consequential losses and damages that may be sustained by GRSE for such default or lapse on the part of a member.
- STC. 18.1.5. A Certified True copy of the Consortium contract/agreement entered into by and between the consortium partners and a certified True copy of the Power of Attorney, referred above, must be submitted with the bid and failure to submit any of such documents will make the bid of the Consortium liable to be rejected.
- STC. 18.1.6. If Contract is awarded to the Consortium, an Agreement would be executed by and between GRSE and all the Consortium members wherein, inter alia, the role of each member and the mode of payments to be specifically defined and/or mentioned. However, all the consortium members shall remain, jointly and severally, responsible for execution and completion of the Contract and also to make good for all losses and damages if any sustained or to be sustained by GRSE in the subject contract due to default and/or negligence of the Consortium as a whole or of any of its members. Any statement or clause seeking to limit the liability of each member of the Consortium, such statement or clause to be treated as incompatible with the principle of joint and several liability and the bid of the Consortium will be liable to be rejected as not in compliance of tender specifications, without further evaluation.
- STC. 18.1.7. In order to qualify/meet the qualification criteria, each of its partners/members or combination of partners/members must meet the minimum criteria set for the individual bidder. Failure to comply with this requirement will result in rejection of the Consortium's bid. The data/figures of each of the partners/members of the Consortium shall be added together in proportion to their participation in the Consortium, to determine the bidder's capacity as a whole to comply with the minimum criteria.
- STC. 18.1.8. The percentage of partnership of the lead partner shall be highest among all the Consortium partners. Bid has to be submitted by the Lead Partner in its name however it should be clearly

indicated that the lead partner is submitting such bid on behalf of a Consortium of which it is the Lead Partner.

- STC. 18.1.9. The lead partner shall be responsible for payment of Bid Security/EMD as well as the Security Deposit & Performance Guarantee. However, the same has to be submitted by MSME/NSIC firms also if such firm acts as a Lead partner.
- STC. 18.1.10. All Payments to be made to the Lead Member pursuant to satisfactory execution of the job as specified in the Contract irrespective of the performance by all the members. Payments made to Lead partner of the Consortium would be construed as valid payment. Further the Consortium members agree not to entangle GRSE in any internal dispute between the Consortium members regarding payment/non-payment or any other issue and accordingly waives their rights, if any in this regard.
- STC. 18.1.11. None of the consortium partners/members should have been blacklisted, banned or debarred or issued any Tender holiday from participating in Government Contracts by either the Government of India or any of its Agencies or by any State Government or by an PSU (both Central & State included) or by the Courts/Tribunals. If so, then the bid is liable to be rejected.
- Note: The Consortium Agreement & the PoA is to be submitted by the Consortium's Lead partner along with the Bid for examination by GRSE. If the Consortium Agreement or the PoA does not meet the criteria as specified in the clause then such bid would be liable to be rejected.

STC 19 MAINTENANCE OF MACHINES (यंत्रों का अनुरक्षण)

- STC 19.1. The maintenance of machines brought in by contractors are to be undertaken as per OEM recommendations. Certificate to this effect is to be rendered by the contractor.

STC 20 SUB-CONTRACTING OF SUB-CONTRACTED JOB (उप संविदा कार्य का उप संविदा)

- STC 20.1. Sub-Contracting of the Sub-Contracted job is usually discouraged. When a contract is being finalised with a Vendor/ Contractor for execution of a particular job, the Contractor shall not sub-contract the job / a part of the job.
- STC 20.2. However, in case of requirement, the job in part or full could be sub-contracted with an approval from GRSE and copy of the same has to be forwarded to Ordering Dept. & HR Dept. for their information.
- STC 20.3. For sub-contracting of the sub-contracted job, the Vendor/Contractor has to submit the details of the sub-contractor to whom the job will be loaded including their name, credentials, document of past performance etc. for approval of GRSE Engineer In-Charge/ In-charge of User Dept./Project Leader / Project Superintendent /Head of Units.

STC 21 EXCESS/WASTE/REJECTED MATERIALS (अतिरिक्त/बेकार/ अस्वीकृत सामग्री)

- STC 21.1. Removal of excess/waste/rejected materials etc. generated during execution of work should be arranged by the Contractor at their own cost immediately after completion of work each day and for non-removal of same by the Contractor, the expenditure incurred by GRSE (if any) in removing these materials will be recovered from the available dues of the Contractor.

STC 22 FIRE &SAFETY PRECAUTIONS अग्नि एवं संरक्षा सावधानियाँ

- STC 22.1. The Vendor/Contractor shall abide by the Safety regulations/rules of the GRSE as detailed in Fire & Safety Guidelines (please refer www.grse.in). The Vendor/Contractor should take all safety precautions and provide adequate supervision & control for their workmen in order to carry out the job safely. In case of any violation of safety precaution and non-usage of safety equipment, Contractor shall be liable for a penalty which is detailed in Fire and Safety Guidelines (please refer www.grse.in). Penalty amount depends on the type and frequency of violation mentioned in the safety guideline and the same will be deducted from the defaulter's bill.

STC 23 SAFETY GUIDELINE FOR MATERIAL HANDLING EQUIPMENT (सामग्री चालन उपकरण हेतु मार्गदर्शन)

STC 23.1. The Vendor/Contractor shall abide by the Safety Guidelines /regulations of GRSE as detailed in NIT. The Vendor/Contractor should comply with all the Safety requirements like Statutory Examination and Certification of Crane & associated lifting tackles, Display of SWL, Competency requirement of Crane Operators, PUC etc. in order to carry out the job safely. In case of any violation GRSE will take appropriate action as per policy.

STC 24 MANDATORY USE OF ISI MARKED PPE BY CONTRACTOR EMPLOYEES (संविदा कर्मचारी द्वारा आई एस आई निशान पी पी ई व्यवहार की अनिवार्यता)

STC 24.1. The Contractor shall ensure the use of ISI marked PPE by their engaged Employees. An indicative list of ISI marked Personal Protective Equipment, is appended below for mandatory compliance by the vendors without any deviation:

STC 24.2. LIST OF PPES (पी पी ई की सूची)

Sl. No.	Description	Name of PPE	Applicable area of Protection	Standard
(i)	Head Protection	Safety Helmet	In the shop floor / on board ship / working at height / under the suspended load or any other place where there is any possibility of head injury.	IS: 2925 or EN 397.
(ii)	Foot Protection	Safety Shoes	(a) Mandatorily wear safety shoe while working in shop floor / on board ship/ Stores/ Dock floor or any other place where there is possibility of foot injury. (b) Mandatorily wear closed footwear while entering the shipyard. (c) Wear Rubber Gumboot while working in water logged condition for removing of water from ship's tank, compartment, Dock Galley etc., cleaning of Dock floor / acid pickling area/ canteen cooking and washing areas etc.	(a) IS 15298 / EN ISO 20345 (b) Non ISI (c) IS: 12254
(iii)	Eye Protection	Safety Goggles	When engaged for welding / gas cutting / grinding / chipping / painting / chemical handling or any other activity where there is a possibility for eye injury due to penetration of flying particles / ultra violet radiation / splashing of chemical etc.	ANSI Z87.1 or EN166.
(iv)	Ear Protection	Ear Plug	In high noise area (>90 db).	IS: 9167/ EN 352
(v)	Hand Protection	Hand Gloves	(a) Leather Hand Gloves – During material handling / welding / gas cutting or any other activity where there is possibility of hand injury due to contact with sharp edges, hot spatter from welding or gas cutting processes.	(a) IS:6994/EN 407 for heat applications (gas cutting / welding) / EN 420 for general requirement / EN 388 for

Sl. No.	Description	Name of PPE	Applicable area of Protection	Standard
			(b) Electrical Rubber Hand Gloves – While executing any electrical maintenance jobs. (c) Acid / Alkali Proof Rubber Hand gloves – During handling of acid, skin irritants chemical & solvent etc.	mechanical hazard (b) IS 4770 for electrical work (c) EN 420 for general requirement (d) EN 388 for mechanical hazard
(vi)	Respiratory Protection	Welding Fume Respirator, Paint Fume Respirator or, Dust mask	Dust Respirator – To be worn during grinding job, floor cleaning, dusting or any other activity where there is possibility of producing dust. (b) Welding Fume Respirator – To be worn during welding, gas cutting, brazing job etc. (c) Chemical Respirator – To be worn during painting, mixing of paint with solvents & FRP activities handling of acid, skin irritants, chemical & solvents etc.	(a) IS: 9473 / EN: 149 (b) IS: 9473 / EN: 149 (c) IS: 15323 (Selection to be made according to the particular chemical hazard)
(vii)	Fall Protection	Double lanyard Safety Belt & harness, automatic fall arrestor	To be worn while working in height: (a) Double Lanyard Full Body Harness – During working at height such as on scaffolding structure / suspended working platform / ship's mast / fragile roof / inclined surface on the roof top or at any other height where there is a possibility of person to fall and get injured. (b) Automatic fall arrestor (in addition to full body harness) – To be worn during carrying out job in the vertical ascending / descending on the scaffolding structure, working on the suspended working platform and inclined surface on the roof top, horizontal movement at height.	(a) IS: 3521 (b) EN 361
(viii)	Electric Arc Flash Protection	Electric Arc rated flash suit jacket, pant, hood and gloves	To be worn during operation & maintenance of electrical installations inside the HT Switch Gear Rooms.	As per guideline of NFPA-70E
(ix)	Fire-Fighting protection	(a) Three Layer Fire Close Proximity Suit	Personnel engaged in Fire Fighting service should wear Fire Close Proximity Suit and use Self-Contained Breathing Apparatus (SCBA) Set during combating fire in a hazardous environment.	Fire Proximity Suit approved by EN-469:2005 + A1: 2006 +AC: 2006D and CE.

Sl. No.	Description	Name of PPE	Applicable area of Protection	Standard
		(b)Self-Contained Breathing Apparatus (SCBA) Set		Jacket & Trouser (EN-469) Hand Gloves (EN-659) Outer Head Protection Helmet (EN-443/1997) and inner Protection EN 1391, Self-Contained Breathing Apparatus(SCBA) Set, as per approval of CE and EN-137 CLASS II standards and Approval of PESO
(x)	Face protection	Industrial safety face shields with plastic visor	When person engaged for grinding / chipping / buffering or any other activity where there is a possibility for face injury due to penetration of flying particles	IS 8521 Design of visor may be selected as per design of safety helmet
(xi)	Protective Clothing	Cotton boiler-suit	In the shop floor / on board ship / production floor and in any other areas of operation.	IS: 177- 1989 (Reaffirmed in 2003), Variety 3 standard
Note: Cotton-boiler suits should bear name of the contractors' firm on the back-side of the boiler-suit in legible manner for easy identification.				

STC 24.3. Role of Contractors

- STC. 24.3.1. Shall ensure attendance of their workmen and other personnel deployed by them, in the scheduled safety-briefings, appropriate use of required PPEs and adoption of various safety measures in their respective workplaces.
- STC. 24.3.2. Shall provide adequate and appropriate PPEs conforming to IS / EN standards, as mentioned at Para 3 and 4 of the Policy, at their own cost and ensure that their workmen mandatorily use those PPEs as specified in this Policy vide Sl. No. 3 or as advised by Safety Department from time to time, according to the job requirement.
- STC. 24.3.3. Shall ensure submission of PPE Issue Matrix Register (as per Annexure – II) to the user department before commencement of work. Such Register should comprise of the name of the contractor, P.O No., name of the workmen being deployed, allotment of PPEs and signature of contractors' workmen substantiating allotment of PPEs to them as per the IS parameter laid down at Para 3 and 4 above.
- STC. 24.3.4. Every contractor should ensure that their workmen have undergone safety training programme, as per their nature of work, prior to commencement of work. Contractor has to submit a report to the engaging / user department after completion of safety training

programme for obtaining permission to commence work under the particular P.O. A copy of that report has to be forwarded to Safety Department for information and record.

STC. 24.3.5. In the event of any accident, the concerned contractor / their site In-charges / supervisors must immediately inform the respective dealing officer of user department regarding occurrence of such accident, who in turn will inform Works Manager of the respective unit and Officer from Safety Department for initiation of further necessary action.

STC. 24.3.6. Ensure that no workman or other personnel deployed by them should loiter or work in shop floor, onboard ship or in the yard without wearing basic PPEs like helmet, safety shoes etc.

STC 24.4. Role of contractors' workmen

STC. 24.4.1. Adhere to all necessary safety-guidelines at their work-sites and use appropriate PPEs.

STC. 24.4.2. Inform their supervisors / site In-charges in the event of loss or damage of their safety gears / PPEs so that the same can be replaced immediately by the concerned contractor and should not be a reason for non-compliance.

STC. 24.4.3. To communicate proper use of PPEs to their co-workers in the event there is any non-compliance.

STC 24.5. PENAL PROVISIONS FOR NON-COMPLIANCE

S/N	Type of violation	Penalty (INR)			
		1 st Instance	2 nd Instance	3 rd Instance	4 th Instance
(i)	Not having / not using PPEs properly	INR 10,000/-	INR 15,000/-	INR 20,000/-	Discontinued / debarred from participating in future tender upto 06 months / 02 consecutive tenders.
(ii)	Use of defective / non IS PPEs	INR 5,000/-	INR 10,000/-	INR 15,000/-	

STC 24.6. DISCONTINUATION OF CONTRACT

STC. 24.6.1. In the case of repeated violation of safety guidelines, i.e, for more than 04 (four) instances during any Financial Year, GRSE shall have the sole discretion to terminate all / such affected contracts of the concerned non-complying contractor. GRSE may also impose Tender Holiday up to maximum period of 03 years in the event of 05 instances of violation. Tender Holiday will be issued on recommendation of existing Standing Committee and approval of Competent Authority.

STC 25 ENVIRONMENT MANAGEMENT AND OCCUPATIONAL HEALTH & SAFETY (पर्यावरण प्रबंधन एवं व्यावसायिक स्वास्थ्य सुरक्षा)

STC 25.1. The vendor shall ensure compliance of Environment Management System (ISO14001:2014), Occupational Health & Safety (ISO 45001:2018) & Energy Management System (ISO 50001:2011) while carrying out their activity in the yard.

STC 26 ENERGY CONSERVATION (ऊर्जा संरक्षण)

STC 26.1. GRSE will provide power supply at free of cost for execution of job. The vendor should ensure that the power during execution of job shall be used in a very economical way to save energy as per Energy Management System of ISO 50001: 2011.

STC 27 GUARANTEE FOR RAW MATERIAL (अनिर्मित सामग्री की गारंटी)

STC 27.1. This Clause will be applicable for Collection of Raw materials /Free Issue materials from GRSE for the jobs which are to be executed outside GRSE premises.

STC. 27.1.1. Raw materials will be required to collect from GRSE against submission of Bank Guarantee as per GRSE format for the equivalent value of material as specified in NIT/Purchase Order. Transportation of materials from GRSE to Sub-contractor's premises and transportation of finished materials from Sub-contractor's premises up to GRSE is the responsibility of the contractor or as specified in NIT.

- STC. 27.1.2. Indemnity Bond affixing the Common Seal from the registered sub-contractors may be accepted in lieu of Bank Guarantee but it should be backed by Insurance Coverage with GRSE as the beneficiary on case to case basis. If the contractor is unable to take coverage, GRSE will cover such risk and cost of premium will be borne by the contractor/recovered from their dues.
- STC. 27.1.3. Indemnity Bond has to be submitted as per GRSE Format on the non-judicial Stamp paper of value Rs. 100/- and to be Notarized if Common Seal is not applicable.
- STC. 27.1.4. During collection of material, the Transporter of the Sub-Contractor has to submit L-R copy, failing which materials will not be issued to the Sub-Contractor.
- STC. 27.1.5. For the jobs which are to be executed inside GRSE premises, submission of Bank Guarantee or Indemnity Bond for Collection Raw materials is not required.

STC 28 MATERIAL RECONCILIATION STATEMENT (MRS) (सामग्री मिलान विवरण)

- STC 28.1. Firms are to furnish the material reconciliation statement (running MRS) to GRSE, for items supplied by GRSE for execution of a job at vendor's premises. Furnishing of MRS to be done immediately on delivery of the Finished item/Block but not later than 30 days of delivery of the finished item showing details of raw materials received, material actually consumed, excess material returned, wastage etc. This statement should be submitted with documentary evidence of material issued/returned/wastage duly accepted by competent authority of GRSE and as per the GRSE format and filled up check list for MRS. Permissible variation in MRS is 1.5% of design weight of structure. MRS certification is to be completed by GRSE within 60 days of receipt of the same from vendors.
- STC 28.2. Quantity of stiffeners used in transportation are to be mentioned in delivery challan clearly indicating whether the stiffeners are: -
- STC. 28.2.1. Temporary stiffeners supplied by vendor.
- STC. 28.2.2. Sections of ABS quality supplied by GRSE.
- STC 28.3. While submitting MRS of Finished item/Block, copies of certified MRS of all previous Finished items/Blocks are to be enclosed. This will be called the final MRS.

STC 29 INSURANCE (बीमा)

- STC 29.1. In case the sub-contracted job has to be executed at contractor's premises, the Insurance has to be taken by the contractor with appropriate value coverage for the underlying risks (the beneficiary would be GRSE by endorsement) e.g. Loss due to following:
- STC. 29.1.1. Fire as per AIFT including EQ, STFI at Contractors premises.
- STC. 29.1.2. Burglary including theft during Storage at Contractors premises.
- STC. 29.1.3. Marine transit to and fro as per ITC(A) including SRCC (on the basis of agreed valuation between GRSE & contractors).
- STC. 29.1.4. Loading & unloading including TP liability at all fabricator's premises.
- STC. 29.1.5. Loss due to infidelity of contractors whilst in storage.
- STC. 29.1.6. Spoilage of material by contractors by any accidental reasons whatsoever.
- STC 29.2. If the contractor is unable to take coverage, GRSE will cover such risk and cost of premium will be borne by the contractor/recovered from their dues.
- STC 29.3. For the jobs which are to be executed inside GRSE premises, Insurance coverage will not be the responsibility of contractor.

STC 30 SITE-INCHARGE/ LOG BOOK/ HINDRANCE & OTHER RECORDS (कार्यस्थान प्रभार/कार्यपंजी/बाधा एवं अन्य रिकार्ड)

- STC 30.1. One fully responsible and Qualified Site-in-charge has to be posted at the site during progress of work.

- STC 30.2. Attendance Register, Wage Register etc. are to be maintained daily for the particular job on board and to be shown as and when required.
- STC 30.3. Details of technical personnel deployed for the job.
- STC 30.4. Monthly progress report.
- STC 30.5. Log book for re-work/ modification.
- STC 30.6. Details of materials brought by vendor along with copies of challan.
- STC 30.7. Proper record of hindrances is to be maintained by the sub-contractor for the purpose of timely removal of the hindrance and is to be put up for approval by Project Leader/Site Engineer on weekly basis. A copy of the same would have to be enclosed while submitting any request for waiver of liquidated damages.
- STC 30.8. Sufficient Supervisory Staff should be provided by the contractor during execution of work and in case of any accident/ damage to GRSE properties, full responsibility will be attributed to the contractor and loss incurred will be recovered from the contractor.

STC 31 WORKING HOURS (कार्य समय)

- STC 31.1. The Contractor's normal working hours shall be in between 8 AM-5:06 PM from Monday to Friday & from 8:00 AM to 1:00 PM on Saturday. 1st & 3rd Saturday is Non-Duty Saturday. Work may also be required to be carried out in shifts (A, B & G shifts) as per GRSE's requirement. Also, work may be required to be carried out on Sunday/Holiday or beyond schedule working hours as per requirement of GRSE and the Contractor will have to arrange for same as per NIT Terms.

STC 32 RISK PURCHASE (जोखिम खरीद)

- STC 32.1. In case the progress of work is not satisfactory and the contractor fails to maintain the schedule, GRSE reserves the right to get the work done by alternative source at the risk and cost of sub-contractor.
- STC 32.2. GRSE shall be at liberty to purchase/obtain the service from the alternative source as it deems fit, to make good such default and or in the event of the contract being terminated, the balance of the remaining service to be delivered there under. Any excess over the job price / service rates, paid and incurred by GRSE, as the case may be, over the contract price shall be recoverable from the firm. To make good the recoverable excess amount paid, GRSE shall be at liberty to invoke Bank Guarantee and/or with other available dues of the firm.

STC 33 INDIVIDUALITY OF THE CONTRACT (संविदा की वैयक्तिकता)

- STC 33.1. This Contract should be treated as an individual contract and should not be related with other orders with GRSE in respect of progress of work or payment.

STC 34 SECRECY OF INFORMATION (सूचना की गोपनीयता)

- STC 34.1. All documents and drawings of this project are of confidential in nature and should be used explicitly for the purpose for which they are provided. Drawings should not be copied and should be returned to GRSE on completion of work.
- STC 34.2. No information in respect of contracts/orders shall be released to the national or international media or any one not directly involved its execution without the express written approval of the Integrated Headquarters, MOD (NAVY). In the event of any breach of above provisions, the vendor would have to make good of any loss/ cost/ damage/ any other claim whatsoever preferred by anybody to GRSE in this respect.
- STC 34.3. Non-Disclosure Agreement (NDA) as specified in the NIT has to be submitted as per GRSE Format.

STC 35 REGISTRATION OF NEW VENDOR (नए बिक्रेता का पंजीकरण)

STC 35.1. The contractor has to confirm if they are registered with GRSE and Indicate Vendor Code (5 digits) and Product Code group accordingly in their offer. If the contractor is not registered with GRSE, then documents required for provisional vendor registration has to be submitted to the Ordering Department. For Permanent Vendor Registration with GRSE, the contractor has to submit their application to GRSE Vendor Development Cell.

STC 36 CONTRACT WORKMAN WAGE PAYMENT (संविदा कामगार का मजदूरी भुगतान)

STC 36.1. Payment of wages to the contractor's employee/workmen should be made through individual bank account on monthly basis instead of cash payment. PF-UAN activation of all the contractor's employee/workmen is mandatory.

STC 37 INSPECTION (निरीक्षण)

STC 37.1. Quality assurance authority: As per NIT/SOTR.

STC 37.2. Inspection to be carried out stage wise by Quality Assurance Authority. On completion of work for any stage, vendor has to submit Inspection Offer to GRSE (Inspection Agency) for stage inspection. GRSE (Inspection Agency) shall co-ordinate with the Outside Inspection Authorities (as applicable) for carrying out inspection of completed job.

STC 37.3. GRSE reserve the right to inspect all operations to be carried out by the contractor. Free access to the work site at all the time shall be ensured by contractor. The presence or absence of GRSE representative does not relieve contractor of the responsibility for quality control. The contractor shall provide all assistance for carrying out inspection of completed work.

STC 37.4. Repeat inspection for any particular job is to be discouraged as far as possible. Hence the vendor should complete the job in all respect prior to submission of Inspection Offer to avoid reoffering. In case of repeat inspection happens for more than two occasions then the additional cost implication incurred by GRSE will be deducted from the bills of the vendor at actual. Number of occasions of repeat inspection for any particular job is to be indicated by GRSE in inspection note and same is to be incorporated in the work done certificate for deduction of additional cost implication for repeat inspection. Cost of deduction shall be calculated by Executing Dept., GRSE with the help of Finance Dept., GRSE.

STC 38 CORRECTION OF ERRORS (त्रुटि सुधार)

STC 38.1. Bids determined to be responsive will be checked by GRSE for any arithmetic error. Errors will be corrected by GRSE as follows:

STC 38.2. For Manual Tendering: -

STC. 38.2.1. Where there is a discrepancy between the rates in figures and in words, the rates in words will govern.

STC. 38.2.2. Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.

STC 38.3. For Tendering through NIC Portal: -

STC. 38.3.1. Where there is a discrepancy between the rates in html format and the attachment to price bid (if applicable), the rates in attachment to price bid will govern. In attachment to Price bid; if any discrepancy found between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will be considered.

STC 38.4. For Tendering through GeM Portal: -

STC. 38.4.1. Where there is a discrepancy between the total price quoted in GeM Portal and the attachment (i.e break up of quoted price in line with BOQ) to price offer, the total price quoted in GeM portal will govern. In attachment to the Price offer, if any discrepancy found between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will be considered.

STC 39 FORCE MAJEURE (अप्रत्याशित घटना) :

- STC 39.1. In the event of contractor being unable to fulfil the obligation under the agreement owing to force majeure, such as War, Fire, Earthquake, Flood, Strike/ Lockout at GRSE premises where the contractor is working, the party affected shall not be held responsible for any failure or non-performance of the duties and obligations under the agreement, provided that all responsible efforts have been made to overcome the consequences of such failure, or non-performance. The time for performances of the contractual obligation shall then be extended by period not more than the duration of such events.
- STC 39.2. In the event of Force Majeure condition existing at contractor's site in GRSE Premises or CPT areas for GRSE work, GRSE is to be intimated with details of such happenings and cessations thereof, within 3 days. Force Majeure is to be limited to contractor's site in GRSE/CPT premises for GRSE's work only. Lock out/ Closure of contractor's factory premises or office or any other place outside GRSE/CPT/GRSE nominated place as indicated above cannot be considered as a Force Majeure condition under this contract.

STC 40 TERMINATION OF CONTRACT (अनुबंध की समाप्ती)

- STC 40.1. In the event of non-performance or non-engagement of manpower for the execution of the job within the notice period, GRSE reserves the right to cancel the order in part or in full, and no compensation whatsoever will be entertained.

STC 41 DAMAGE OF MATERIALS / EQUIPMENTS (सामग्री/उपकरण की छती)

- STC 41.1. The contractor will ensure that no damage is caused to the materials, equipment or any other property of GRSE due to negligence and / or any reason whatsoever by the contractor's personnel. The cost of such damage will be suitably recovered from contractor's bills.

STC 42 OFFICE & STORAGE SPACE (कार्यालय एवं भंडारण स्थान)

- STC 42.1. The contractor will have to arrange their office & storage required for execution of job, for cumulative order value of Rs.75 lakhs and above, of their own. However, space for placing up to one container will be provided free of cost by GRSE. Container will have to be removed by the contractor within 03 months from the date of final settlement with GRSE. In case of non-removal of container within specified period penalty as deemed fit will be imposed for the occupied area of GRSE.

STC 43 ARBITRATION (मध्यस्थता)

- STC 43.1. If at any time, before during or after the contract period, any unsettled claim, question, dispute or difference arises between the parties, upon or in relation to or in connection with or in any way touching or concerning this order, the same shall be settled/adjudicated through Arbitration to be conducted by a Sole Arbitrator, to be appointed by the parties on mutual consent, in accordance with the provisions of the Arbitration and Conciliation Act, 1996.
- STC 43.2. In the event the parties fail to mutually appoint a Sole Arbitrator within 30 days from the receipt of a request by one party from the other, then either of the parties may approach the Hon'ble High Court at Calcutta under the provisions of the Arbitration and Conciliation Act, 1996 for appointment of a Sole Arbitrator by the Hon'ble Court.
- STC 43.3. Such arbitration shall, in all respects, be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the rules framed there under or any statutory modification or re-enactment thereof for the time being in force.
- STC 43.4. The Award of the Sole Arbitrator shall be final, conclusive and binding upon the Parties.
- STC 43.5. In the event of the death or resignation or incapacity or whatsoever of the said Sole Arbitrator if appointed by the parties mutually the said parties may again appoint a suitable Substitute Arbitrator in place of the erstwhile Sole Arbitrator to continue with the proceedings. In the event of appointment of the Sole Arbitrator by the Hon'ble High court at Calcutta on death or resignation or incapacity or whatsoever of the said Sole Arbitrator, either of the parties in this behalf, may make an

application to the Hon'ble High court at Calcutta for appointment of a Substitute Arbitrator and the Hon'ble Court may pass such orders as it deems fit and proper.

- STC 43.6. Also, in the event an Arbitration award is set aside by a competent court the parties may appoint a Sole Arbitrator mutually or on failing to appoint a Sole Arbitrator mutually within the statutory period then either of the parties may file an application before the Hon'ble High Court at Calcutta under the provisions of the Arbitration and Conciliation Act, 1996 for appointment of a Sole Arbitrator by the Hon'ble Court in accordance with the provisions of the Arbitration & Conciliation Act.
- STC 43.7. The cost of the arbitration, fees of the arbitrator, remuneration of the stenographer and clerk, stamp paper etc. shall be shared equally by the parties, unless otherwise directed by the Sole Arbitrator. The venue of arbitration shall be at Kolkata and unless otherwise decided by the parties or by the Sole Arbitrator himself, the venue shall be the premises of Garden Reach Shipbuilders & Engineers Ltd. located at 43/46, Garden Reach Road, Kolkata 700 024.
- STC 43.8. The language of the proceeding shall be in English.

STC 44 JURISDICTION (न्याय अधिकार)

- STC 44.1. Litigation, if any, pertaining to this contract will come under the jurisdiction of High Court at Kolkata.
- STC 44.2. All contracts shall be deemed to have been wholly made in Kolkata and all claims there under are payable in Kolkata City and it is the distinct condition of the order that no suit or action for the purpose of enforcing any claim in respect of the order shall be instituted in any Court other than that situated in Kolkata City, West Bengal State, India.
- STC 44.3. The Firm is warranted that all service rendered by them shall conform to applicable city, states & central laws, ordinances and regulations and the said Firm shall indemnify / defend / relieve GRSE harmless, from / of against loss, cost of damage, by reason or any actual or alleged violation thereof.
- STC 44.4. GRSE shall not be liable under the workmen's compensation Act of 1923; in case any employee or workmen receives injury while actually serving his employer in connection with the latter's work inside the compound of GRSE Ltd.
- STC 44.5. All existing applicable Laws such as ESI, PF, SERVICE, CONTRACT LABOUR, CHILD LABOUR etc. as applicable, shall be binding for the contract.

STC 45 PREVALANCE OF NIT/STAC & CLARIFICATION

- STC 45.1. For any discrepancy between NIT (Notice Inviting Tender) and STAC, NIT statement may be taken as final.
- STC 45.2. Clarification required, if any, regarding Tender Document, should be got resolved by contacting competent authority of GRSE prior to submission of bid.
-

**ANNEXURE – 3: EXECUTED RELEVANT JOBS for TECHNICAL ELIGIBILITY
DURING LAST 03 YEARS
(To be submitted in Letterhead of bidder)**

1. Name of the Bidder:

2. Job Description:

3. Tender Reference:

(A) Details of Executed relevant jobs:

Sl. No	Description of Executed relevant jobs	Order No. & Date (Supporting soft or, hard copy to be submitted)	Start & Completion date as per Order	Actual start date	Actual Completion Date	Order placed by	Value of Purchase order (in INR)	Scope of Work (details & quantity)	Details of Resources / Machinery Deployed	Work completion certificate Ref. No. & date (Supporting soft or, hard copy to be submitted)

Note: Please add additional pages if required

(Signature of Authorized Representative)

Date:

Name:

Designation:

ANNEXURE – 4: FORMAT for FINANCIAL ELIGIBILITY
(To be submitted in Letterhead of bidder)

1. **Name of the Bidder:**

2. **Job Description:**

3. **Tender Reference:**

A. Financial Data for evaluating Financial Eligibility

SL. No.	Accounting Year	Financial Years	Turn Over (in INR)
1	2024-25	2023-24	
2	2023-24	2022-23	
3	2022-23	2021-22	
Average for 03 years			

(Signature of Authorized Representative)

Date:

Name:

Designation:

Note:

- (i) Financial Statements to be attached
- (ii) Annual Statement Audited / Certified by Chartered Accountant for the relevant last three (03) years is to be provided while submitting the bid.

**ANNEXURE-5: FORMAT OF SELF-CERTIFICATION FOR DECLARATION REGARDING BLACKLISTING/
TENDER HOLIDAY**
(To be submitted in Letterhead of bidder; MANDATORY FOR ALL TENDERS)

1. Name of the Bidder with Address:

Date:

2. Job Description:

3. Tender Reference:

Sub: SELF-CERTIFICATION

I / We, Proprietor/ Partner(s)/ Director(s) of M/s. _____ hereby declare that our firm/company namely M/s. _____ have neither been blacklisted nor have received any tender holiday by any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations during last 03 (three) years ending on _____ (date) from taking part in Government tenders.

Or

I / We Proprietor/ Partner(s)/ Director(s) of M/s. _____ hereby declare that our firm/company namely M/s. _____ has received tender holiday from M/s. _____ (name of PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations) from taking part in Government tenders for a period of _____ months w.e.f. _____ to _____ (date). The period is over on _____ (date) and now our firm/company is entitled to take part in Government tenders. (relevant withdrawal/revocation document is attached).

In case the above information is found inappropriate / false, I/We are fully aware that the offer submitted by our firm / contract awarded to our firm/company namely M/s _____ will be rejected/cancelled by M/s GRSE, and EMD/SD shall be forfeited and appropriate action will be taken in accordance with the vendor policy of GRSE.

(Signature of Authorized Representative with official seal)

Date:

Name:

Designation:

NB: PLEASE ENCLOSE COPY OF RELEVANT DOCUMENTS

*Strike out / omit whichever is not applicable

ANNEXURE-6: FORMAT FOR DISCLOSURE BY CONTRACTOR OF EXISTING WORK
(To be submitted in Letterhead of bidder)

1. **Name of the Bidder:**
2. **Job Description:**
3. **Tender Reference:**
4. **Details of Existing relevant jobs:**

Sl. No.	Description of Existing relevant jobs	Order No., Date & Value (in INR) <i>(with supporting document)</i>	Scope of work for existing contract (To quantify)	Start & Completion date as per Order	Actual start date	Agreed Completion Schedule	Deployment of operatives for the existing contract (category wise)					Action Plan for resource mobilization
							USK	SSK	SK	HSK	Equipment	

(Signature of Authorized Representative with official seal)

Date:

Name:

Designation:

Note: Please add additional pages if required.

**ANNEXURE-7: FORMAT FOR DISCLOSURE BY CONTRACTOR OF PROPOSED EXECUTION /
DEPLOYMENT PLAN OF THIS TENDERED JOB**
(To be submitted in Letterhead of bidder)

5. **Name of the Bidder:**
6. **Job Description:**
7. **Tender Reference:**
8. **Details of Existing relevant jobs:**

Sl. No.	Deployment of operatives per month for the Tendered job contract (category wise)				
	USK	SSK	SK	HSK	Equipment

(Signature of Authorized Representative with official seal)

Date:

Name:

Designation:

Note: Please add additional pages if required.

ANNEXURE-8: CONFIRMATION BY BIDDER CUM CHECKLIST FOR BID SUBMISSION

ATTACH SUPPORTING DOCUMENTS (PRICE NOT TO BE MENTIONED HERE)

NIT No / निविदा संख्या:			
Job Title / कार्य का नाम:			
1.	BID REFERENCE NO./DATE*		
2.	NAME OF THE BIDDER		
3.	Proprietorship / Partnership / JV / Consortium (agreement need to be submitted in case of JV / Consortium)		
4.	ADDRESS OF THE BIDDER		
5.	Phone		
6.	E-mail		
7.	Vendor Regn No. with GRSE (if Registered Vendor of GRSE)		
8.	MSME / NSIC REGISTRATION DETAILS (IF APPLICABLE)		
9.	TReDS REGISTRATION NUMBER (Offers of MSME not registered with TReDS may not be considered)		
10.	GeM SELLER ID*		
11.	PAN		
12.	TAN (indicate if not applicable)		
13.	GST No.		
14.	PROVIDENT FUND ACCOUNT DETAILS		
15.	ESI DETAILS		
16.	COMPANY REGISTRATION DETAILS / TRADE LICENSE		
17.	Currency	INR	
18.	GLOBAL DISCOUNT(Percentage)		
COMMERCIAL TERM(S) / DETAILS			
Sl. No.	ATTRIBUTE		DETAILS (VENDOR TO CONFIRM)
1.	TENDER FEE	Details of instrument to be indicated if required as per NIT Indicate SUBMITTED / EXEMPTED / NOT REQUIRED AS PER NIT	
2.	EARNEST MONEY	Details of instrument to be indicated if required as per NIT Indicate SUBMITTED / EXEMPTED / NOT REQUIRED AS PER NIT	
3.	SECURITY DEPOSIT	Indicate ACCEPTANCE OF NIT TERMS / DEVIATION (if any)	
4.	PERFORMANCE GUARANTEE	Indicate ACCEPTANCE OF NIT TERMS / DEVIATION (if any)	
5.	TERM OF PRICE	Indicate ACCEPTANCE OF NIT TERMS / DEVIATION (if any)	
6.	QUOTATION VALID TILL*	Indicate ACCEPTANCE OF NIT TERMS / DEVIATION (if any)	
7.	COMMERCIAL TERMS Note: Deviations Sought to Commercial Terms (if any) are to be clearly mentioned.		
8.	TECHNICAL COMMENTS Note: Deviations sought against SOTR / Technical Terms are to be clearly mentioned.		
9.	DELIVERY SCHEDULE * Note: Deviations sought w.r.t. Tender stipulation are to be clearly mentioned.		
10.	DEVIATIONS TO OTHER NIT TERMS Note: Deviations sought w.r.t. NIT Terms and not specified above are to be clearly mentioned.		

11.	TERMS OF PAYMENT: {PAYMENT WILL BE MADE THROUGH ECS MODE}	Indicate ACCEPTANCE OF NIT TERMS / DEVIATION (if any)	
12.	ORDER TO BE PLACED ON		
13.	PAYMENT TO BE MADE TO (IF ANOTHER AGENCY) PLEASE INDICATE LATEST BANK DETAILS		
14.	SAC CODE (DETAILS TO BE PROVIDED IN GST CODE PERCENTAGE TAB)		
15.	NAME OF SUPPLY STATE/UT		
16.	GST (BIDDER TO INPUT ONLY TOTAL APPLICABLE GST IN PERCENTAGE (%), IRRESPECTIVE OF IGST, CGST, SGST OR COMBINATION OF TWO TYPES OF GST)		

DOCUMENT SUBMISSION / CONFIRMATIONS

1.	INTEGRITY PACT	Indicate SUBMITTED / NOT REQUIRED AS PER NIT	
2.	NON-DISCLOSURE AGREEMENT	Indicate SUBMITTED / NOT REQUIRED AS PER NIT	
3.	DECLARATION REGARDING BLACKLISTING/ TENDER HOLIDAY	[Indicate SUBMITTED / NOT SUBMITTED and if put on Tender Holiday / Blacklisted]	
4.	ACCEPTANCE MATRIX FOR NIT & STAC	[Indicate SUBMITTED (WITHOUT DEVIATION) / SUBMITTED (WITH DEVIATION) / NOT SUBMITTED]	
5.	ACCEPTANCE MATRIX FOR SOTR / SOR	[Indicate SUBMITTED (WITHOUT DEVIATION) / SUBMITTED (WITH DEVIATION) / NOT SUBMITTED]	
6.	FORMAT FOR TECHNICAL ELIGIBILITY	[Indicate SUBMITTED / NOT SUBMITTED]	
7.	DISCLOSURE BY CONTRACTOR OF EXISTING WORK	[Indicate SUBMITTED / NOT SUBMITTED]	
8.	FORMAT FOR FINANCIAL ELIGIBILITY CRITERIA	[Indicate SUBMITTED / NOT SUBMITTED]	
9.	AVERAGE ANNUAL TURNOVER in INR FOR LAST 3 FINANCIAL YEARS		
10.	DOCUMENTS IN SUPPORT OF FINANCIAL ELIGIBILITY CRITERIA (Audit Report incl. Profit & Loss and Balance Sheet)	[Indicate SUBMITTED / NOT SUBMITTED]	

ATTACH SUPPORTING DOCUMENTS (PRICE NOT TO BE MENTIONED HERE)

(Signature of Authorized Representative with official seal)

Date:

Name:

Designation:

ACCEPTANCE MATRIX FOR NIT & STAC
APPLICABLE ONLY FOR TENDERS PUBLISHED IN GEM PORTAL

NIT No निविदा संख्या:					
Job Title कार्य का नाम:					
Clause no	Bidder's Remarks (Accepted / Deviation Sought)	Clause No	Bidder's Remarks (Accepted / Deviation Sought)	Clause No	Bidder's Remarks (Accepted / Deviation Sought)
<u>NIT TERMS & REQUIREMENTS</u>					
SI-1		SI-10		SI-19	
SI-2		SI-11		SI-20	
SI-3		SI-12		SI-21	
SI-4		SI-13		SI-22	
SI-5		SI-14		SI-23	
SI-6		SI-15		SI-24	
SI-7		SI-16		SI-25	
SI-8		SI-17		SI-26	
SI-9		SI-18			
<u>NIT ARTICLES</u>					
Art.1		Art.10		Art.19	
Art.2		Art.11		Art.20	
Art.3		Art.12		Art.21	
Art.4		Art.13		Art.22	
Art.5		Art.14		Art.23	
Art.6		Art.15		Art.24	
Art.7		Art.16		Art.25	
Art.8		Art.17		Art.26	
Art.9		Art.18		Art.27	
<u>STANDART TERMS & CONDITIONS (STAC)</u>					
STC 1		STC 16		STC 31	
STC 2		STC 17		STC 32	
STC 3		STC 18		STC 33	
STC 4		STC 19		STC 34	
STC 5		STC 20		STC 35	
STC 6		STC 21		STC 36	
STC 7		STC 22		STC 37	
STC 8		STC 23		STC 38	
STC 9		STC 24		STC 39	
STC 10		STC 25		STC 40	
STC 11		STC 26		STC 41	
STC 12		STC 27		STC 42	
STC 13		STC 28		STC 43	
STC 14		STC 29		STC 44	
STC 15		STC 30		STC 45	

(Signature of Authorized Representative with official seal)

Date:

Name:

Designation:

ACCEPTANCE MATRIX FOR SOTR / SOR

NIT No / निविदा संख्या:	
Job Title / कार्य का नाम:	
Clause no	Bidder's Remarks (Accepted / Deviation Sought)
1. INTENT	
2. BUILD SPECIFICATION	
3. DETAILS OF BLOCK DIVISION	
4. SUB-CONTRACTOR'S SCOPE OF WORK	
5. CLASIFICATION	
6. ISO STANDARD	
7. WORKMANSHIP	
8. INSPECTION FOR ERECTION JOB	
9. DRAWINGS	
10. GRSE'S SCOPE OF SUPPLY	
11. SUB-CONTRACTOR'S SCOPE OF SUPPLY	
12. CONFIDENTIALLY AND INTELLECTUAL PROPERTY RIGHTS (IPR)	
13. MATERIALS	
14. MANPOWER	
15. TECHNICAL PRE-QUALIFICATION CRITERIA	
16. PLANING	
17. SAFETY AND SECURITY	
18. HINDRANCE & DELAY	
19. MODIFICATION/REWORK	
20. WORK DONE CERTIFICATE	
21. MILESTONES FOR PAYMENTS	
22. OWNERSHIP	
23. PROJECT MONITORING	
24. WEIGHT RECORDING	
25. DOCUMENTATION	
26. ANNEXURE- AA	
26. ANNEXURE-A	
27. ANNEXURE-D	

(Signature of Authorized Representative with official seal)

Date:

Name:

Designation:

ANNEXURE-9: CHECK LIST FOR BILL SUBMISSION - for Service Contracts

CHECK LIST FOR BILL SUBMISSION - for Service Contracts

A. GENERAL PARTICULARS: (to be checked and submitted by Contractor/Vendor)

- A.1 BTN (as per BTS System):-
A.2 Invoice No and date / E-Invoice No. & Date (if applicable for the vendor)
(Original & in triplicate)
A.3 PO Number
A.4 Name of Vendor
A.5 Location of work: MW / RBD/ FOJ/ TU / 61Park/Vendor's premises

I. For RA Bill (Running/Progressive bill) (Put √ Mark)		YES	NO	NA
A.6	PO Number and date verified with Invoice:			
A.7	Vendor Name & Address in Invoice verified with Purchase Order:			
A.8	Vendor Code as in PO verified with Invoice:			
A.9	Original certified WDC enclosed :			
A.10	Whether WDC is Certified by the Authorized Person as per PO / SOTR with Rubber Stamp			
A.12	HSN/SAC code is as per PO			
A.13	GSTIN No. is as per PO			
A.14	GST % is as per PO			
A.15	Security Deposit (SD) submitted as per PO			
A.16	PBG of equivalent amount submitted, as per PO			
A.17	Compliance of Statutory Liabilities of labour as per PO			
II. Applicable for Final/Balance Bill (Put √ Mark)				
A.20	Certified Job Completion Certificate (JCC) enclosed			
A.21	MRS as per PO terms enclosed (If applicable)			
A.22	Guarantee Period (GP) expired as per PO term			
A.23	PBG of equivalent amount submitted, if GP is not over (If Yes, copy to enclose with the bill)			

Signature of Vendor's representative
with Seal/Stamp

For GRSE Use Only

B.	To be checked and verified by Bill certifying authority (Put √ Mark)	YES	NO	NA
B.1	Whether Bill has been forwarded through BTS			
B.2	Whether WDC is Certified by the Authorized Person as per PO / SOTR with Rubber Stamp			
B.3	Job starting & Completion Date (Schedule & Actual) indicated in WDC			
B.4	Certification of Penalty/ Recovery from bill indicated in WDC, if applicable			
B.5	Whether Bill is Certified by the Authorized Person as per PO / SOTR with Rubber Stamp			
B.6	Certification of Penalty/ Recovery from bill as per WDC, if applicable			
B.7	Service Entry Sheet (SES)/GR in line with WDC, PO & Invoice			
For Final/Balance Bill (Put √ Mark)				
B.8	Certified MRS copy as per PO terms enclosed (If applicable)			
B.9	Guarantee Period (GP) expired as per PO term and JCC			
B.10	PBG copy of equivalent amount till GP validity enclosed (if GP is not over)			

Signature of GRSE Bill Certifying Authority
with Designation

b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act, further the Bidder(s)/Contractor(s) will not use improperly, for purpose of competition or personal gain, or pass on to others, any information or document provided by the principal 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 particulars, if any. Further details as mentioned in the "Guidelines on Indian agents of Foreign suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only, copy of the "Guidelines on Indian agent of foreign supplier" is annexed and marked as annex.

e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

[2] The Bidders(s)/ Contractor(s) will not instigate third persons to commit offences, outline above or be an accessory to such offence.

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

If the Bidder(s)/Contractor(s) before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the principal is entitled to disqualify the Bidders(s)/ Contractor(s) from the tender process or take action as per the extant procedure of the company.

Section 4- Compensation for Damages.

1) If the principal has disqualified the Bidder(s) from the tender process prior to the award according to section 3, the principal is entitled to demand and recover the damages equivalent to earnest Money deposit/Bid security.

2) If the Principal has terminated the contract according to section 3, or if the principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

Section 5- Previous Transgression

1) The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

2) If the Bidder makes incorrect statement on this subject he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealing"

Section 6- Equal treatment of all Bidders/Contractors/Sub-contractors.

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

Section 7- Criminal charges against violating Bidder(s) Contractor(s)/Sub-Contractor(s)

If the principal 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 Sub contractor which constitutes corruption, or if the principal has substantive suspicion in this regard, the principal will inform the same to the Chief Vigilance Officer.

Section 8- Independent External Monitor/Monitors

- 1) The Principal 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 representative of the parties and perform his functions neutrally and independently. He reports to the Chairman GRSE.
- 3) The Bidder(s)/Contractor (s) accepts that the Monitor has the right to access without restriction to all project documentation of the principal including that provided by the contractor. The contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) /Subcontractor(s) with confidentiality.
- 4) The Principal will provide to the Monitor sufficient information about all meeting among the parties related to the project provided such meetings could have an impact on the contractual relations between the principal and the contractor, The parties offer to the Monitor the option to participate in such meetings.
- 5) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the management of the principal 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.
- 6) The Monitor will submit a written report to the Chairman, GRSE within 8 to 10 weeks from the date of reference or intimation to him by the principal and should the occasion arise, submit proposals for correcting problematic situations.
- 7) Monitor shall be entitled to compensation on the same terms as being extended to/provided to Independent Directors on the GRSE Board.
- 8) If the Monitor has reported to the Chairman GRSE a substantiated suspicion of an offence under relevant IPC/PC act, and the Chairman GRSE 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.

9) 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 18 months after the last payment under the contract, and for all other Bidders 6 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 of GRSE.

Section 10- Other provisions:

- 1) This agreement is subject to Indian Law, place of performance and jurisdiction is the Registered Office of the principal i.e. Kolkata.
- 2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(For & On behalf of the principal)

(For & On behalf of the Bidder/Contractor)

Place

Place

Date

Date

Witness 1

(Signature, Name & Address)

Witness 2

(Signature, Name & Address)

ANNEXURE-12: NON-DISCLOSURE AGREEMENT

(to be executed in Non-Judicial Stamp Paper of Rs.100/- and to be signed & stamped on all pages)

This Non-Disclosure Agreement executed thisDay of2023.

Between

GARDEN REACH SHIPBUILDERS & ENGINEERS LIMITED, a company incorporated under the provisions of the Companies Act, 1956, having its Registered Office at 43/46, Garden Reach Road, Kolkata – 700024, hereinafter referred to as “**GRSE**” (which expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successors-in-interest, administrators and assigns) of the **FIRST PART**.

AND

M/s _____ (with full address), hereinafter referred to as the L1 Bidder (which expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successors-in-interest, administrators and assigns) of the **SECOND PART**.

WHEREAS

For purpose of this Agreement, GRSE discloses (herein after referred to as the “Disclosing Party”) to the Bidder (herein after referred to as ‘Recipient’) Confidential Information as are required to give effect to the terms of the NIT/Purchase Order and the Recipient receives and or accesses the said Confidential Information

WHEREAS the Bidder being considered inter alia for the purpose of _____ work and as such some of the data, drawings/documents in connection to execution of work against Tender No: _____ are required to be disclosed which shall be treated as confidential and the said Recipient, shall not disclose or part with such drawings/documents either whole or in part to any other third party, without prior written consent from GRSE.

AND WHEREAS the said Recipient, is obliged to execute an undertaking in the form of “Non-Disclosure Agreement” on receiving Confidential Information in the form of data drawings/ documents and also confidential/proprietary drawings or technical information of Indian Navy through Government of India or any other party, as the case may be, by GRSE, duly promising and/or undertaking to keep and treat such data, drawings/documents as strictly ‘confidential’.

NOW THEREFORE both GRSE and the Bidder do hereby agree as follows in the premises aforesaid: -

1. In the Premises aforesaid it is agreed as follows:

- (a) “Confidential Information” means and includes any and all facts, knowledge, information, data and drawings and documents of any nature whatsoever, whether written or electronic mode owned and/or possessed by GRSE notwithstanding it belongs to any person, government or otherwise not limited to ideas, designs, data, source code, processes, computer programming, flow diagrams, know how, computer programming and other software and software techniques and such other notes, interpretation, derivative or analysis of data that has been or may hereafter be provided or shown to the Recipient or is gathered, received or obtained directly or is otherwise obtained from the review of GRSE’s documents. It is agreed that any and all reports, notes, minutes, summaries, flow charts, diagrams and any other information that is prepared based on the discussions and interaction with GRSE pursuant to this Agreement shall be deemed to be Confidential Information under this Agreement.
- (b) During the pre-bid discussion and subsequent agreement between the parties herein, if any, for execution of the job and also for a period of 10 years from the date of Expiry and/or foreclosure and/or termination of the said NIT/PO, M/s _____, the Recipient, undertakes that the Confidential Information so received in any form whatsoever shall be:

- i) Protected and kept as strictly confidential by them.
 - ii) Disclose to and used only by the persons within the organization of M/s_____, who have a need to know solely for the purpose of pre-bid meeting and for execution of the work if awarded by GRSE subsequently subject to their taking due care and protection of the system and data.
 - iii) Used in whole or in part solely for the purpose of pre-bid meeting and for execution of the work if awarded by GRSE subsequently in the manner as ordered by GRSE or to be ordered from time to time exclusively and shall not be exploited for any other purpose or customers.
 - iv) Neither be disclosed nor cause to be disclosed directly or indirectly to any third party.
 - v) Neither be copied nor otherwise be reproduced, in whole or in part without prior express consent from GRSE.
 - vi) Returned to GRSE forthwith on demand at any point of time and upon immediate foreclosure /expiry of the contract if subsequently entered.
2. Nothing in this agreement or the disclosure of the Confidential Information or data or systems, to be intended to be granted or shall be construed as granting to the Recipient., any rights, title, interest or license other than the right to use such Confidential Information for the purpose of pre-bid meeting and for the execution of the contract/job if subsequently awarded by GRSE and shall not be exploited for any other purpose or customers of the Recipient. In this regard for the purpose of pre-bid meeting or for execution of job if any, to be subsequently awarded by GRSE to the Recipient shall at all times remain the exclusive property of GRSE and rest with GRSE.
 3. The Recipient shall resort to any publicity or advertising in respect of this agreement or the subject matter thereof and the subject matter of PO and/ or any Agreement, if any, to be entered into subsequently.
 4. The Recipient shall not make any copies or duplicate or reduce in writing the Confidential Information or part thereof in anyway in whole or part any information without the prior written consent of GRSE and where such copies or reproductions are permitted in accordance with this clause, the Recipient shall treat them strictly confidential in accordance with the provisions of this agreement and comply with the instructions of GRSE with regard to the protection and disposal of them.
 5. If the Recipient is compelled under any law to disclose (whether by way of announce or otherwise) any Confidential Information, it shall give prompt notice in writing of such fact to GRSE and shall provide all cooperation and assistance as may be requested by GRSE in order to seek an appropriate remedy to prevent or restrict such disclosure.
 6. It is agreed by the Recipient that the Recipient shall take full responsibility while handling the Confidential Information provided by GRSE, which means that the Recipient shall be fully responsible of the acts of its employees/subcontractors/officers/associates who are required to handle the Confidential Information provided by GRSE.
 7. **Indemnity:** Recipient shall indemnify GRSE and hold harmless from and against all actions, proceedings, claims, demands, losses, damages, costs (including between attorney and clients) charges, expenses and consequences whatsoever that may be brought or made against or sustained or incurred by GRSE in consequences resulting from any act or omission on the part of Recipient including its employees/subcontractors/officers/associates.
 8. The Recipient agrees and undertakes GRSE that the Recipient shall obtain appropriate indemnity from its sub-contractors and outside personnel/workers to the effect that they will use Confidential Information for construction of the ships only and for no other purpose and also, they would not divulge or pass on any Confidential Information to any third party for any reason whatsoever.
 9. The Recipient acknowledges the competitive value and confidential nature of the Confidential Information and the resultant damage to GRSE if the Confidential Information is disclosed or allowed to be disclosed to any unauthorized persons or used for the purpose of violation of this Agreement. The Recipient confirms that it is imperative that all Confidential Information remains confidential. The

Recipient acknowledges that GRSE possesses Intellectual Property Rights in the Confidential Information.

10. The expiry, foreclosure or termination of the PO or any or all of the subsequent agreements entered into by GRSE and the Recipient, if any, in pursuance of the pre-bid discussion, shall not relieve the Recipient of their/its obligations under these presents which shall be effective and remain effective and in full force, for a period of 10 years from the date of such expiry/foreclosure/termination of the PO.
11. In the event of expiry, foreclosure or termination, the Recipient shall forthwith return to GRSE, the Confidential Information as received by them/it during tenure of the PO and/or subsequent agreements.
12. Neither party shall assign any PO and / or any Agreement, if any, to be subsequently entered into, without the written consent of the other and should there be any re-organization, merger, take over or the like, its successor-in-interest shall be bound by the conditions of this Agreement.
13. Failure to enforce any provision of this agreement and/or failure to initiate timely action, will not construe to be waiver and GRSE shall be freely entitled to enforce the provisions of this agreement at any appropriate time thereafter.
14. In the event any provision of this Agreement shall be held invalid or unenforceable for any reason, that provision shall not affect any other provision of this Agreement.
15. The Recipient acknowledges that Confidential Information belonging to GRSE is a valuable asset. Disclosure in breach of this Agreement will result in irreparable injury to GRSE for which monetary damage alone will not be an adequate remedy. Therefore, the parties agree that in the event of a breach or threatened breach of the terms of this Agreement, GRSE will be entitled to specific performance, injunctive relief or other equitable relief prohibiting any breach of this Agreement. Any such equitable remedy shall be in addition to and not in lieu of, other appropriate relief at law which GRSE may be entitled.
16. This agreement shall be governed under the Indian Laws and the Courts in Kolkata shall have exclusive jurisdiction to try determine and adjudicate any disputes arising between the parties in relation to this agreement.
17. GRSE' standard arbitration clause as contained in NIT shall apply to this agreement for resolution of disputes between the parties.

IN WITNESS WHEREOF the parties have hereunto set and subscribed their respective hands and seals on the day, month and year first above written.

**FOR GARDEN REACH SHIPBUILDERS &
ENGINEERS LTD**

Signature:
Name:
Address:

FOR M/s _____,

Signature:
Name:
Address:

WITNESS 1

Signature:
Name:
Address:

WITNESS 2

Signature:
Name:
Address :

ANNEXURE-13: FORM FOR BID SECURITY DECLARATION**Form for Bid Security Declaration**

(To be submitted in Company's Letterhead)

Date: DD/MM/YYYY

Bidder's Ref: _____

Tender Ref: _____

To

M/s. Garden Reach Shipbuilders & Engineers Ltd.

61-P, Garden Reach Road,

Kolkata – 700 024

Kind Attn: *(Name & Designation of tender issuing officer)*

Dear Sir / Madam,

We the undersigned declare that:

We understand that, according to tender conditions, bids must be supported by a bid Security Declaration along with valid MSE/NSIC document.

We accept that we will automatically be suspended from being eligible for bidding in any contract with M/s. GRSE Ltd. for the period of 03 Years starting from date of opening of price bid, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) Have withdrawn our bid after opening of price bid and within the bid validity specified in the tender;
or
- (b) Having been notified of the acceptance of our bid by M/s. GRSE Ltd. during the period of bid validity,
 - (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the security deposit, in accordance with Article 21 (i) of tender.

We understand this bid security declaration shall expire if we are not the successful bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful bidder; or (ii) twenty-eight days after the expiration of our bid.

[Insert signature of authorized representative]

[Insert legal capacity of the person signing the declaration]

[Insert complete name of person signing the declaration]

Duly authorized to sign the bid for and on behalf of *[insert complete name of bidder]*

Date: DD/MM/YYYY

[Put corporate seal as appropriate]

- In case of JV, the entity should be registered with GRSE and Bid security declaration to be submitted by the JV entity.
- In case of consortium, the Lead partner should be registered with GRSE and Bid security declaration to be submitted by all of the Consortium

FORMAT FOR BANK GUARANTEE TOWARDS EARNEST MONEY

(to be executed in Non-Judicial Stamp Paper of Rs.100/- and to be signed & stamped on all pages)

(To be used by all scheduled Banks)

BANK GUARANTEE TOWARDS EARNEST MONEY

GUARANTEE BOND

In consideration of M/s. Garden Reach Shipbuilders & Engineers Limited, 61, Garden Reach Road, Kolkata - 700024 (hereinafter called "the Buyer") having agreed to exempt M/s..... having its registered office at (hereinafter called "the party") from the demand, under the terms and conditions contained in the Tender No..... dated (hereinafter called "the Said Tender") of EARNEST MONEY DEPOSIT for the due fulfillment by the said party's of the terms and conditions contained in the said Tender on production of a Bank Guarantee for Rs..... (Rupees.....only) we.....Bank Limited (hereinafter referred to as "the Bank") do hereby undertake to pay to the Buyer an amount not exceeding Rs..... (Rupees.....only) against any loss of any breach by the said Party of any of the terms & conditions contained in the said Tender.

2. We, Bankdo hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the Buyer stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Buyer by reason of any breach by the said Party of any of the terms and conditions contained in the said Tender or by reason of Party's failure to perform the said Tender. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee.

3. We, Bank Limited further agree to the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of said Tender / Order and that it shall continue to be enforceable till all the dues of the Buyer under or by virtue of the said Tender / Order have been fully paid and its claims satisfied or discharged or till the Managing Director, Garden Reach Shipbuilders & Engineers Limited, certifies that the terms and conditions of the said Tender / Order have been fully & properly carried out by the said party and accordingly discharges the Guarantee. Unless a demand or claim under this Guarantee is made on us in writing on or before the We shall be discharged from all liability under this Guarantee thereafter.

4. We, Bank Limited further agree with the Buyer that the Buyer 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 / Order or to extend time of performance by the said Party from time to time or to postpone for any time or from time to time any of the powers exercisable by the Buyer against the said Party and to forbear or enforce any of the terms and conditions relating to the said Tender / Order and we shall not be relieved from our liability by reason of any such variation, or extensions being granted to the said Party or for any forbearance, act or omission on the part of the Buyer or any indulgence by the Buyer to the said Party or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. We Bank Limited lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Buyer in writing.

6. Notwithstanding anything contained herein above, the liability of the Guarantor under this Guarantee is restricted to Rs..... (Rupees.....only), and that this Guarantee shall remain in force until its expiry on the(date), unless a suit or action to enforce a claim under this Guarantee is made against the Guarantor within six months from the aforesaid date of expiry, all the rights of beneficiary under the said Guarantee shall be forfeited and the Guarantee shall be released and discharged from all liabilities thereof.

For Bank Limited

Dated the day of..... 20

FORMAT FOR BANK GUARANTEE TOWARDS SECURITY DEPOSIT

(to be executed in Non-Judicial Stamp Paper of Rs.100/- and to be signed & stamped on all pages)
(to be used by all scheduled banks)

BANK GUARANTEE TOWARDS SECURITY DEPOSIT

GUARANTEE BOND

In consideration of M/s. Garden Reach Shipbuilders & Engineers Limited, 43/ 46, Garden Reach Road, Kolkata - 700024 (hereinafter called "The Buyer") having agreed to exempt M/s..... having its registered office at (hereinafter called "The Party") from the demand, under the terms and conditions contained in the Tender/ Purchase Order No..... dated (hereinafter called "the said Tender/ Order") of SECURITY DEPOSIT for the due fulfillment by the said Party's of the terms and conditions contained in the said Order, on production of a Bank Guarantee for Rs. (Rupees only), we, Bank Limited (hereinafter referred to as "the Bank") do hereby undertake to pay to the Buyer an amount not exceeding Rs. against any loss or damage caused to or suffered by the Buyer by reason of any breach by the said Party of any of the terms and conditions contained in the said order.

2. We, Bank do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the Buyer stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Buyer by reason of any breach by the said Party of any of the terms and conditions contained in the said order or by reason of the Party's failure to perform the said order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee.

3. We, Bank Limited further agree to the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Tender/ Order and that it shall continue to be enforceable till all the dues of the Buyer under or by virtue of the said Tender/ Order have been fully paid and its claims satisfied or discharged or till the Managing Director, Garden Reach Shipbuilders & Engineers Limited, certifies that the terms and conditions of the said order have been fully and properly carried out by the said Party and accordingly discharges the Guarantee. Unless a demand or claim under this Guarantee is made on us in writing on or before the we shall be discharged from all liability under this Guarantee thereafter.

4. We, Bank Limited further agree with the Buyer that the Buyer 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/ Order or to extend time of performance by the said Party from time to time or to postpone for any time or from time to time any of the powers exercisable by the Buyer against the said Party and to forbear or enforce any of the terms and conditions relating to the said Tender/ Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Party or for any forbearance, act or omission on the part of the Buyer or any indulgence by the Buyer to the said Party or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. We, Bank Limited lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Buyer in writing.

6. Notwithstanding anything contained hereinabove, the liability of the Guarantor under this Guarantee is restricted to Rs. (Rupees) and that this Guarantee shall remain in force until its expiry on the (date), unless a suit or action to enforce a claim under this Guarantee is made against the Guarantor within six months from the aforesaid date of expiry, all the rights of the beneficiary under the said Guarantee shall be forfeited and the Guarantee shall be released and discharged from all liabilities thereof.

For Bank Limited.

Dated the day of 20.....

**CHECK LIST OF STATUTORY RESPONSIBILITY OF CONTRACTOR
THE CONTRACT LABOUR (R& A), ACT, 1970 AND CENTRAL RULES, 1971**

SL. NO.	NATURE OF STATUTORY REQUIREMENTS	FORM NO.	RESPONSIBILITY	REMARKS
01	Labour License	Form –II	Contractor	Contractors engaging 20 or more contract labours would apply for obtaining labour license (in triplicate) to the ALC (C), Kolkata. A copy of the license should be submitted to concerned Unit HR Department. <i>Note:</i> The Contractor cannot deploy more than the number of workmen mentioned in the license on any day.
02	Renewal of labour license	Form –II	Contractor	The contractor shall apply to the ALC(C), Kolkata for renewal of license at least 30 days prior to its expiry. A copy of the acknowledgement / renewed license should be submitted to concerned Unit HR Department.
03	Notice for commencement / completion of work	Form-VII	Contractor / Principal Employer	The contractor shall submit Form – VII to the Inspector / Labour Enforcement Officer (C), Kolkata within 15 days intimating the actual date of commencement / completion of the work. The receipted copy of Form – VII should be submitted to concerned Unit HR Department.
MAINTENANCE OF REGISTERS				
04	Employee Register	FORM – A	Contractor	Comprising of personal details like name, father's name, DOB, Address etc. of the workmen engaged by the contractor.
05	Wages Payment Register	FORM – B	Contractor	Comprising of current rate of minimum wages, employees PF & ESI contribution and other allowances, if any.
06	Register of Loan / Recoveries / Fines etc.	FORM – C	Contractor	To maintain record of loans, fines and advances given, if any and monthly record of recoveries.
07	Attendance Registers	FORM – D	Contractor	Data of daily attendance of each workmen engaged by the contractor indicating their in and out time.

SL. NO.	NATURE OF STATUTORY REQUIREMENTS	FORM NO.	RESPONSIBILITY	REMARKS
08	Employment Card	Form – XII	Contractor	Every contractor shall issue employment card / appointment letter to their contract workers within 03 days from their date of employment.
09	Service Certificate	Form – VIII	Contractor	To be issued by the contractor upon termination of employment / completion of work etc.
10	Wage-slip	Form – XIX	Contractor	Contractors shall issue wage-slip to their workmen at least 01 day prior to disbursement of wages.
11	Annual Return	Online Submission	Contractor	Every Contractors shall prepare Annual Return for the previous year which is submitted online by the Contractors' in <i>Shram Suvidha</i> Portal to the Registering Officer within 31st Jan of the following year.

**CHECK LIST OF STATUTORY RESPONSIBILITY OF CONTRACTOR
COMPLIANCE OF OTHER STATUTES FOR ENGAGEMENT OF CONTRACTORS' WORKMEN**

Sl. No.	Relevant Statutes	Responsibility	Compliances to be ensured as per the Statute
01	The Factories Act, 1948 & West Bengal Factories Rules, 1958	Contractor	1. <u>Leave with Wages</u>: Every worker who has worked for a period of 240 days or more is entitled to get leave with wages to be calculated one day for every 20 days of work performed by him. 2. <u>Payment of Overtime</u>: Where a worker has worked for more than 09 hours in any day or for more than 48 hours in a week, he shall, in respect of overtime work, be entitled to wages twice the hourly rate. 3. <u>Hours of Work</u>: The total nos. of hours of work in a week, including overtime, shall not exceed sixty. 4. <u>Hours of Overtime</u>: The total hours of overtime shall not exceed fifty in any quarter i.e. during three consecutive months for any worker.
02	Payment of Wages Act, 1936	Contractor	Contractors (employer) engaging less than 1,000 persons have to pay wages before expiry of the 7th day after the last day of wage period.
03	The Minimum Wages Act, 1948	Contractor	Contractors (employer) shall pay minimum wages to every worker as per the Central rates circulated by the Management from time to time.
04	The EPF & MP Act, 1952	Contractor	1. Every contractor shall obtain the following before commencement of work: (a) PF Code No. of the firm. (b) PF UAN i.r.o of the workmen engaged by him. (c) Ensure submission of nominee and dependent details while applying for UAN of workmen.
		Contractor	2. Every contractor shall contribute towards PF @ 12% of the monthly wages of each workman as employer's share and recover 12% of monthly wages from each employee, as employees share and thereafter remit the entire amount to EPFO i.r.o every workman engaged by him. The contribution for the preceding month should be remitted prior to expiry of the 15th day of the following month. Contractors (Employers) are also required to bear the administrative charges as applicable.

Sl. No.	Relevant Statutes	Responsibility	Compliances to be ensured as per the Statute
05	The ESI Act, 1948	Contractor	1. Every contractor shall obtain the following: a) ESI Code No. of the firm (b) ESI code no. i.r.o of the workmen engaged by him (c) Ensure submission of nominee and dependent details while applying for ESI TIC (E-Pehchan Card).
		Contractor	2. Every contractor shall remit ESI contribution (employers' share @ 3.25% and employees' share @ 0.75%) i.r.o every workman engaged by him for the preceding month prior to expiry of the 15th day of the following month.
06	The Payment of Bonus Act 1965 & Rules	Contractor	1. Contractors shall pay annual bonus to their workmen (Contract Labour) drawing wages below and upto Rs. 21,000/- per month. Bonus will be payable minimum @ 8.33% and maximum @ 20% of annual wages.
		Contractor	2. Register in Form - C format {Rule 4(b)} of 'The Payment of Bonus Act, 1965' is to be maintained by the contractor for submission of Annual Return as per the Act.

RESPONSIBILITIES OF CONTRACTORS OVER AND ABOVE THE STATUTORY REQUIREMENTS

- (i) Contractors shall take all necessary steps for disbursement of wages through bank-transfer and issue a payment notice at least 02 days prior to such bank-transfer for information of respective unit HR Dept. as well his workers. (should be incorporated in the contract document in the Payment Terms).
- (ii) All contractors should obtain labour-licenses prior to commencement of work. Principal Employer shall not allow any contractor without license.
- (iii) All outsourced jobs are required to be supervised by a Supervisor duly appointed by the Contractor. The contractor should declare the name and contact number of the supervisor(s) against each P.O before commencement of work and submit the details of the supervisor(s) to the respective unit HR Department. He should keep adequate nos. of supervisors to supervise and co-ordinate the execution of job by contract labours. (The principal employer must check that the name and number of the supervisor which has been provided by the contractor, whether the same person is coming as the said supervisor).
- (iv) The supervisor's name should not be mentioned in the employee register as he is not a contract labour.
- (v) Supervisor of concerned contractor should be present in the work-site where the contract labours of the concerned contractor are supposed to work. To ensure the presence of the supervisor, their attendance may be recorded by the user department on daily basis.
- (vi) Contractor should mention the name of his Supervisor / agent / manager in Form-II which is to be submitted to ALC (C) for obtaining labour license.
- (vii) The supervisor should maintain the attendance register of their contract labours (Form-D) which may be randomly checked by the Officers of the user department. This attendance register will be submitted by the contractors on monthly basis along with the wages-payment registers to the respective unit HR Depts. for obtaining certification of payment of wages to each contractor labour based on their daily / monthly attendances.
- (viii) Contractors must submit details of their firms in the Appendix B1 format prior to commencement of work. They must also submit details of their contract labours in B2 formats for making new gate-passes for the purpose of entry / exit prior to the engagement of such contract labour.
