



Garden Reach Shipbuilders & Engineers Limited
DIESEL ENGINE PLANT

(A Govt. of India Undertaking, Ministry of Defence)

An ISO 9001-2008 Plant

Plant Plaza Road, Dhurwa, Ranchi - 834 004

CIN L35111WB1934GOI007891

Website: www.grse.in

Phone: 0651 – 240 1434 / 240 1428

Fax: + (91) 0651-2446895

Tender No.: DEP/OT/TEST BED NO 1/2021-22/02/ET-1883.

Date-26-07-2022

NOTICE INVITING TENDER

Tender No.: DEP/OT/TEST BED NO 1/2021-22/02/ET-1883.

Pre bid meeting Date and Time: 06.08.2022 at 11:00 Hrs.

Tender Closing Date and Time: 18.08.2022 at 12:00 Hrs.

Tender Opening Date and Time: 20.08.2022 at 12:00 Hrs.

Sub.: UPGRADATION OF TEST BED NO 1 AT DEP RANCHI

E- OPEN TENDER ENQUIRY

1. INSTRUCTION TO BIDDERS:-

- a. **Bids in single stage two bid system (Part-I: Techno-Commercial Bid and Part-II: Price Bid) are invited for Up gradation of Test Bed No 1 at DEP RANCHI**
- b. **Part -I:** Techno-Commercial bid (it must contain only technical & commercial points and should not contain any price. **If any price is indicated in Part-I, the offer will be treated as CANCELLED**)
- c. **Part - II:** Price bid (containing only price) with no other attachment. In case any attachment is found in the price bid, the bid will be rejected outright.
- d. You will have to submit bid in two part (Techno-Commercial & Price Bid) in E-Procurement mode where all data sheet will be available for download, need to fill up the required field and upload the file. Price bid need to be filled up in given price bid data sheet only (ANNEXURE-C). **No other attachment regarding price will be allowed in price bid, if so then offer will be treated as cancelled.** You should mention your offer ref. no. and date in ANNEXURE – A, B & C.
- e. The supply is to be carried out as per Statement of Technical Requirement in ANNEXURE-I.

2. Tender Fees

- a) Parties downloading tender documents from website need to submit a Demand Draft/Pay Order for **Rs.500/- (Five Hundred only)** (non-refundable) in favour of "Garden Reach Shipbuilders & Engineers Ltd." payable at Ranchi from Nationalized/Scheduled Bank other than Co-operative bank towards cost of tender documents. (MSME registered firms are exempted towards payment of tender Fees.)



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- b) Vendor to send Original Demand Draft/Pay Order towards cost of tender documents to AGM (I/C), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004, on or before tender closing date and time. **Non-receipt of Original Demand Draft/Pay Order towards tender fees, within tender due date and time, will lead to offer rejection summarily.**
- c) Scan the Demand Draft/Pay Order Copy and attach to General Documents part in E-Procurement. **Non – attachment of tender fees will lead to summarily rejection of offer.**
- d) MSME/SSI Units registered with govt. designated authority and also those registered under single point registration with NSIC will be exempted from Tender Fee Deposit on submission of valid EMII/NSIC single point registration certificate / Udyog Aadhaar Memorandum or Registration certificate, for particular product under tender.
- e) GRSE shall not be responsible for any postal delays or non-receipt of tender fees by tender due date / time, for any reasons whatsoever.
- 3. BID SECURITY DECLARATION:**
- a) Vendors are not required to submit any EMD/Bid Security in the form of any negotiable instrument against this tender. However, in lieu to that a Bid Security Declaration has to be submitted as per format enclosed at **Annexure IV**. In case of withdrawal of the bid / fail or refuse to execute the contract / fail or refuse to submit the Security Deposit, punitive action will be taken against the bidder by imposition of tender holiday for a period of 03 (three) years.
- b) MSME/SSI Units registered with govt. designated authority and also those registered under single point registration with NSIC will be exempted from Bid Security Declaration on submission of valid EMII/NSIC single point registration certificate/Udyog Aadhaar Memorandum or Registration certificate, for particular product/service under tender.
- c) Scan the Bid Security Declaration and attach to General Documents part in procurement. Non submission / non attachment of Bid Security Declaration or a valid MSME document, whichever applicable, will lead to outright rejection of offer.
- 4. SECURITY DEPOSIT (INTEREST FREE):**
- a) Successful bidder will deposit an amount equivalent to 3% of the total contract value in form of PBG, as interest free Security Deposit in the form of Pay Order/duly crossed favouring GRSE Ltd. payable at Ranchi or Bank Guarantee (**as per GRSE format Annexure-V**) on any Scheduled Bank other than Co-operative Bank, within 15 days of placement of Purchase Order/LOI, whichever is earlier. Bank Guarantee as per GRSE format



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towards security deposit will have to be submitted fresh. In case of non-submission of PBG, 10% of the total Contract value will be withheld by GRSE, DEP-Ranchi till completion of Guarantee Period.

- b) SD submitted in the form of BG should be forwarded directly to AGM (I/C-DEP), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004, in Banker's sealed envelope
- c) Security Deposit to be kept valid till completion of installation and commissioning.
- d) Non-submission of Security Deposit within the stipulated time would entitle GRSE to claim interest at SBI Prime Lending rate prevailing at the time of such imposition on the amount of Security Deposit to be submitted from the due date of submission till the date of actual submission of the same. GRSE may recover such interest from the bills of the Contractor/Successful Bidder for which no separate notice shall be issued.
- e) GRSE reserves the right to invoke the above BG at any time during its validity period in the event of any breach of terms stipulated in the order.
- f) Vendors are required to follow the guidelines for submission of BG at Annexure-III.
- g) The vendors registered with NSIC under single point registration for manufacture/supply of concerned equipment/item, will additionally be exempted from submitting the security deposit, as may be notified from time to time by Directorate of MSME. NSIC document, Entrepreneurs Memorandum (EM Part-II) for manufacture/supply of concerned equipment/item, must be submitted along with the offer for such purpose to claim the benefit.

5. MICRO & SMALL ENTERPRISE :

- a) MSME registered with MSME authority as above, quoting prices within 15% of lowest eligible price bid of other bidder(s) shall be eligible for purchase preference for 20% of the order quantity (subject to order quantity being adequate for this purpose) provided the MSE matches the L1 landed cost at GRSE.
- b) To avail this purchase preference, submission of EM-II certificate is mandatory failing which the benefit will not be accorded.
- c) If it happens that two or more MSME are within L1 + 15% range, all such MSME will be given an opportunity to accept the L1 price and to share 20% of the order value equally.
- d) In case the MSME is owned by SC/ST owners then the enterprise will get a share of 4% of the above 20% exclusively in addition to sharing of equal portion of balance 16% with other non- SC/ST MSME.



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- e) If more than one MSME owned by SC/ST owners are there in case of a tender, such MSME will share 16% of the total ordered value equally with other non-SC/ST owned MSME in addition to equally sharing 4% exclusively reserved for SC/ST owned enterprises.
- f) To qualify for entitlement as SC/ST owned MSME, the SC/ST certificate issued by the District Authority must be submitted along with the offer.

6. BENEFIT TO START-UPS:

- a) All start-Ups are allowed to participate against tender enquiries without submission of prior experience and prior turnover details even if asked for in the tender enquiry.
- b) However, with a view to ensure quality, such participating start-Ups shall submit proof of manufacturing capability, testing capability and submission of samples (s) (wherever required) to meet the quality and technical specifications of the tendered product (s).
- c) In case, after ordering, such start-Ups are not able to deliver the material of required quality and specifications the same will be informed to the Dept. of Industrial Policy and Promotion authorities for necessary corrective action for delivery compliance.
- d) To preclude possibilities of failures of Start-Ups to execute the purchase order which in turn, may result in cascading effect on project timelines, leading to delay, price escalation, L.D. from customer and loss of reputation as a reliable shipbuilder, this policy will be application considering the criticality of the item (s) in terms of technology, safety, etc.
- e) All Start-Ups will be exempted from submission of Earnest Money Deposit. However, Security Deposit/ Contract Performance Bank Guarantee will be applicable.
- f) The start-Ups get themselves registered with GRSE prior to placement of Purchase order.
- g) Start-Ups here will imply all such organization as registered with the Dept. of industrial Policy and Promotion and will include Micro, Small and Medium sub-categories

7. Queries if any may be clarified from DEP, Ranchi prior to submission of offer. Email- ranjan.nikhil@grse.co.in; raj.abhishek@grse.co.in;

8. QUALIFICATION CRITERIA OF THE BIDDER:The following documents are to be attached with the techno-commercial bid:

- a) Certificate of incorporation / registration
- b) Valid trade license
- c) PAN card
- d) GST registration certificate



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- e) MSME/Start up certificate, wherever applicable
 - f) Latest income tax certificate, wherever applicable
 - g) Details of Required experience vide Annexure-I para 23 of published NIT.
 - h) Details of Average Annual Turn-Over of Rs 50 Lakh for three Financial Year as per Annexure-I para 26 of published Tender.
9. The offer will be considered for further process, if valid pre-qualifying documents as mentioned above, at para 8 of published NIT, are not enclosed along with techno-commercial offer without intimation to the bidder for further submission of left out documents.
10. In case tenderer has any query regarding e-tender procedure / DSC, they may contact GRSE E-Procurement Cell helpdesk (email: mtl.eproc@grse.co.in; Ph.: +91 33-24893902 / +91-33-2469-8100-15, Extn: 221 / 315). Bids are to be submitted through e-tender only. Vendors are also requested to check with GRSE E-Procurement Portal (<https://eprocuregrse.co.in>).
11. **E-Mail Address for communication:** Vendor should have a computer with suitable internet connection & e-mail address to enable better communication with various offices of GRSE.
12. Last date of submission of Bid / Date of opening of bid is indicated in Tender Document. In no circumstances the extension of Tender date will be accepted.
13. Date of opening of offer (Price Bid) will be notified in due course after conclusion of TNC/CNC meetings and acceptance of Techno-Commercial offer.
14. GRSE reserves the right to accept / reject any bid in full or in part, at any stage, without assigning any reason thereof.
15. Tender document is available from Website www.grse.in or www.tenders.gov.in or may contact DM (Maint), Contact no-0651-2401572/8521338999 Diesel Engine Plant, Plant Plaza Road, Dhurwa, and Ranchi-834004 on all working days (except Sundays/Holidays) from 10.30 AM to 12.00 Noon and 2.00 PM to 4.30 PM.



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16. Pre Bid Meeting:

(a) The Pre-Bid meeting shall be held at 1100 Hrs till completion on **06TH August 2022** at **DEP/GRSE Ranchi Conference Hall / Video Conferencing / Web-Ex whichever is feasible (due to ongoing pandemic scenario)**. The bidder is requested to send an official correspondence regarding interest for participation one week in advance of the pre bid date. The bidder will be intimated on the scheduled time slots of pre bid meeting by DEP Ranchi via e-mail. The bidder shall nominate his representatives (if not attending in person) to attend the Pre-Bid Meeting on scheduled timing, Conference Hall / Video Conferencing / Web-Ex whichever is feasible (due to ongoing pandemic scenario) The address is given below for reference:

**Garden Reach Shipbuilders & Engineers Ltd
Diesel Engine Plant, Plant Plaza Road, Dhurwa
Ranchi- 834004**

Jharkhand, India

Telephone: 9246655055 / 7995487597

Fax: 910651-2446895

E-mail: ranjan.nikhil@grse.co.in; raj.abhishek@grse.co.in;

(b) The Pre-bid meeting will be held with all the vendors as per the intimation mail on varied individual time slots / together as the case may be. The bidders' authorize representatives attending the Pre-Bid Meeting shall submit an authority letter as proof of representation through mail to DEP Ranchi, one week in advance. The purpose of the Pre-Bid Meeting shall be to clarify issues and to answer the questions on any technical, commercial matters to vendor to make them fully understand the technical requirement of tender / NIT and enable them to prepare Bid accordingly.

(c) Additionally any queries by the bidder's representatives received in written from vendor prior to or during the Pre-Bid Meeting shall be considered by GRSE and the written response to all the queries shall be circulated to all the Bidders present during pre-bid meeting.

(d) Minutes of the Pre-Bid Meeting, including the text of the questions raised and the responses given shall be transmitted to all the Bidders who have attended the meeting. Any modifications of the Bidding documents, which may



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become necessary as a result of the Pre-Bid Meeting, shall be made by GRSE exclusively through the issue of suitable Corrigendum and will be hoisted in GRSE Website only and not through the minutes of the Pre-Bid Meeting. **Non-attendance at the Pre-Bid Meeting shall not be a cause for disqualification of a Bidder.** However, all clarifications and modifications presented in the Addenda / Corrigendum shall be legally binding on all the Bidders irrespective of their status of attendance at the Pre-Bid Meeting.

NOTE:

BIDDERS ARE REQUESTED TO SUBMIT THEIR OFFER MUCH IN ADVANCE OF DUE DATE TO AVOID LAST MINUTE TRAFFIC / MISTAKES. GRSE SHALL NOT BE RESPONSIBLE FOR ANY DELAY THEREBY, NO REQUESTS FOR EXTENSION SHALL BE ENTERTAINED FROM LAST-DAY BIDDERS.

17. LIST OF ENCLOSURES:-

- (a) ANNEXURE I : STATEMENT OF TECHNICAL REQUIREMENT (SOTR)
- (b) ANNEXURE II : STANDARD TERMS & CONDITIONS (STAC) OF PURCHASE
- (c) ANNEXURE III : GUIDELINES FOR BANK GUARANTEE
- (d) ANNEXURE IV : FORMAT FOR BID SECURITY DECLARATION
- (e) ANNEXURE V : FORMAT FOR SD BG
- (f) ANNEXURE VI : FORMAT FOR PERFORMANCE BG
- (g) ANNEXURE VII : INTRIGRITY BOND FORMAT
- (h) ANNEXURE VIII : REFERENCE DRAWINGS
- (j) ANNEXURE IX : SPECIFICATION REFERENCE
- (k) ANNEXURE-A : TECHNICAL BID
- (l) ANNEXURE-B : COMMERCIAL BID
- (m) ANNEXURE-C: PRICE BID
- (n) ANNEXURE-D: ACCEPTANCE MATRIX

Note: It is mandatory to submit duly filled Annexures A, B, C and D for consideration of the bid. If not complied, the bid will be rejected outright.



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18. **INTEGRITY PACT** : Bidder needs to submit Integrity Pact bond as per **Annexure VII** along with technical bid duly signed on N. J. S. Paper of Rs. 100/- (Rupees Hundred Only). The details of Independent External Monitor (IEM) for the GRSE tender which are under integrity Pact are as below:

a) Shri Bam Bahadur Singh, Height-7; Flat No.1802, Uniworld City,New Town, Rajarhat, Kolkata-700160 bbsinghbeml@gmail.com	b) Shri Pidatala Sridhar, IRS (Retd.) Flat 2C, Kanaka Lakshmi Apartments 3-6-467 & 468 Street Number-6, Himayatnagar, Hyderabad- 500029 sridharpidatala@gmail.com
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19. Commercial requirement for the NIT:

FEES / DEPOSITS	
Tender Fee	Rs. 500 (exemption as per clause in STAC)
Earnest Money Deposit (EMD) (refer clause 06 of STAC)	Nil (exemption as per clause in STAC)
Security Deposit (SD)	3% of Order Value. (exemption as per clause in STAC)
Billing Frequency	On Recurring Basis, Line Item wise post completion of work.
Evaluation of L1	L1 bidder will be decided on Totality Basis.

20. **Conditional Offer:** No conditional offer will be accepted and conditional offer will be rejected without any further communication

Lt Cdr (IN) Abhishek Raj (Rtd)
Senior Manager (Tech)
M/s Garden Reach Shipbuilders &
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Diesel Engine Plant, Dhurwa , Ranchi-
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ANNEXURE – I

STATEMENT OF TECHNICAL REQUIREMENT (SOTR)

1. Introduction

(a) Diesel Engine Plant, a Government of India undertaking, is a unit of Garden Reach Shipbuilders & Engineers Ltd. (GRSE), are in process to modernize / Upgrade its existing facilities at its Diesel Plant at Ranchi which will be conducting Assembly & Servicing of Diesel Engine in rain & dust-controlled environment. GRSE wish to appoint Contractor for complete work on turnkey basis which includes civil construction, electrical work, mechanical work, supply of mechanical equipments etc. and commissioning of all the supplied equipment for the said works. The work needs to be properly executed & completed by the contractor in time bound manner.

(b) E-Tenders are thus invited from reliable, reputed and experienced Structural and Services engineering contractors for **"UPGRADATION OF TEST BED NO 1 AT DIESEL ENGINE PLANT, RANCHI"**.

2. Work Requirements The Work included in this tender broadly comprises: Civil, Mechanical & Electrical work, supply of Mechanical / Electrical equipment, Installation & Commissioning of equipments & Maintenance during Defect Liability Period

3. SCOPE OF WORK:

(a) **CIVIL WORK (SERVICES) FOR UPGRADATION OF TEST BED:-** This specification covers civil works, procurement for the existing test bed. There are two rooms in the existing test bed. One is **Engine room** where engines are proposed to be tested and another room to be used as **control monitoring room**. Bidders are requested to quote for the same on the basis of details as depicted in the SOTR. Following are major civil work for test bed:

i) **Demolishing of Entrance/Front wall:** - Demolishing of Entrance/Front wall: - Existing old test bed-01 has a facility of lowering of engine from top of Test bed with the help of EOT Crane, to overcome this limitation, it requires to demolish the Entrance wall 6x3.3x1.5 mtr. and construct/ fabricate a steel gate of size 3.3x6.0 mtr. For entering the engine at test bed through proposed newly construct entrance gate and place at platform of test bed with the



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help of EOT Crane. Existing steel door of size 1.7X2.5 mtr. Shall be retained for normal entry of personnel.

ii) **Repairing of Engine room:** - As existing test bed -01 of size 13.4x 9.9 mtr. is not utilizing for testing of Engine since long time where it needs to be repair the crack wall, painting of wood, steel structure and wall of engine room.

iii) **Repairing of Control Room:** - At control room of size 9.9 x 2.9 mtr. Needs to be renovated with Tiles work, painting and plaster of wall and replacement of existing door of control room.

iv) **Repairing of Corridor:** - At corridor room of size 13.5 x1.4 mtr. Needs to be renovate with Tiles work, painting and plaster of wall and replacement of existing door of control room.

Subject: Up gradation of Test Bed no 1			
Name of the work :- Up gradation of GV Test Bed			
1	Dismantling of Concrete: Dismantling R.C. floor, roof, beams etc. including cutting rods and removing rubbish as directed within a lead of 75 m. including stacking of steel bars. From any floor.	CuM.	10
2	Dismantling of Brick masonry: Dismantling all types of brick masonry including stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. from any floor.	Cum.	25
3	Dismantling carefully insulating walling of test bed: Dismantling carefully insulating wooden walling from wall/ceiling & stacking dismantled materials as directed.	Sq. m	50
4	Taking out door and window: Labour work for taking out door and window frame including shutter including mending all damages complete. Up to area 2.5 Sq.	Sqm.	10.0
5	Dismantling, Lowering and stacking Metal Items: Labour work for lowering and stacking after dismantling in parts R.S. joists, duct, channels, angles, tees, plates etc. complete as directed. (from any floor)	kg	3000



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6	Clearing & Cleaning of GV test Bed floor: Clearing & Cleaning of floor of GV test Bed, control room & also gallery by taking out completely or by part all electrical panels, cylindrical vessels, metal boxes, dust, or any solid metal from the floor etc. as per direction & make the floor neat & clean.	Sq. m.	250
7	Welding work: - Welding in M.S. structural work with gas or electric: by Continuous weld.	cm run	200
8	Top Roof Cleaning: - Taking out old damaged tar felt from the roof, parapet etc. including preparing the roof surfaces by removing all spoils, blisters, moss etc. and disposal of the same as per direction of Engineer-in-Charge.	Sq. m.	100
9	Cutting hole in brick wall & concrete: - Cutting chase up to 125 x 150 mm. and subsequent mending of damages.	M.	60
10	Cutting holes in brick wall: Cutting holes and subsequent mending damages of Diameter exceeding 300 mm. but not exceeding 450 mm.	M.	10
11	Providing of Cement concrete of M20 grade: Supplying & placing Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips 20 mm nominal size in ground floor as per relevant IS codes.	Cum.	18
12	Providing Cement Punning over Concrete: Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE: Cement 0.152 cum per 100 sq.	Sq. M	120
13	Providing of Reinforcement Bar: Reinforcement bar for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. Also providing of bar made of round or square M.S. rods fitted and fixed in holes of window/door/gate frames etc. complete.	kg	150
14	Waterproofing of top concrete roof : Providing of Cement concrete of M15 grade (mix 1:2:4) with graded stone chips 6mm nominal size as per relevant IS codes including using water proofing and plasticising admixture @ 0.2% by weight of cement (or at manufacturer's specified rate) for concrete of various grades.	Cum.	10



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15	Providing Polyester Fibre for anti-shrinkage roof concrete: - Adding Polyester Fibre anti shrinkage material @ 0.25% by weight of cement [or as per Manufacturer's Specification] as reinforcement to arrest hair crack in concrete.	Kg	10
16	Supplying, spreading and consolidating Stone Dust to a depth of 1.50 m including watering & compacting to a desire density as necessary.	Cum	60
17	Earth work in Excavation: - Earth work in excavation of foundation trenches or drains, in all sorts of soil including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, as required complete. (a) Depth of excavation not exceeding 1,500 mm.	Cum	10
18	Shuttering work: - Hire and labour charges for shuttering with centering and necessary staging for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (up to roof of ground floor) (a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	Sq.m	20
19	Supplying fitting and fixing M.S. Gate frame with M.S. angle/channel as per drawing & direction of required section. All welding spots should be properly filed or rounded smooth including cost of welding, clamps of 25mm x 6mm flat 225mm long as per direction welded to the frame fitted and fixed in position. Also including of providing heavy duty hinge, floor spring, handle, AL drop. Etc.	Kg.	600
20	Supplying & fixing MS sheet over MS gate frame: Supplying 1.5mm thick M.S. sheet fitted and fixed on one or both faces of M.S. / W.I. gate etc. with point welding complete in all respect as per design including cost of all labour and materials.	Sq. m	18
21	Ceramic Tiles:- Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc.	Sq. M	100



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	<p>With Sand Cement Mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m.</p> <p>(b) Area of each tile will be up to 600mm X 600mm. (i) Coloured decorative</p>		
22	<p>Providing of Aluminium swing door frame :- Supplying, fitting & fixing of partly glazed partly panelled or fully glazed single leaf Aluminium swing door of all aluminium sections via door frame (top and side frame), shutter(top rail, bottom rail, lock rail, door vertical) , glazing clip made of Aluminium Alloy Extrusions conforming to IS: 733-1983 and IS: 1285-1975, anodized conforming to IS:1868-1983, fitted with all other accessories viz. EPDM gasket, cleat, angle screws etc. including labour charges for fitting and fixing of aluminium door with door spring,/aluminium hinges, glass / Panel board all complete as per architectural drawings and direction of Engineer-in charge.</p> <p>(Excluding cost of glass/ panel board, door spring/ Al hinges, door closer, door stopper, handle, tower bolt and locking arrangement etc.)</p> <p>10-12 Micron thickness Anodizing film Natural white</p>	Kg.	60
23	<p>Providing of float Glass: - Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987.i) 4mm thick clear glass.</p>	Sq.M	12
24	<p>Aluminium Composite Panel (ACP) for Al. door: Providing and fixing exterior quality Aluminium Composite Panel (ACP) wall cladding on existing Al. /MS frame work with GI brackets, ACP fixed on the existing frame work by folding the edges of ACP panel (Engraving the rear surface of ACP sheet) with CP angles, cleats and stainless Steel screws forming grooves at the periphery of ACP panel. Such grooves filled with foam and silicon sealant etc. complete with all materials (but including the cost of silicon sealant), labour, scaffolding and all other incidental charges complete in all respect as per specification and direction of Engineer-in-charge. (Mode of payment is on finished surface area of ACP)</p> <p>(b) 4mm thick (0.50mm Al.+3.0mm LDPE +0.50mm Al. PVDF coating)</p>	Sq. M	10.0



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25	Floor spring for Al. Door: Supplying heavy duty hydraulic double action floor spring along with top pin/set of pivots conforming to IS: 6315 or any approved make as per direction of Engineer in charge.	Each Set	3.0
26	Door closer : Supplying Aluminium casted body hydraulic door closer as per I.S.I.	Each	1
27	Hinge for Door : Supplying Aluminium casted body Butt Hinge Natural white)	Each set	6.0
28	Tower bolt: - Anodised aluminium barrel / tower / socket bolt (full covered) of approved of size 200mm long x 10mm dia. Bolt.	Each	3.0
29	Al drop: - Anodised aluminium Al drop / Sliding bolts of approved quality manufactured of size 300mm x 16mm dia. Bolt.	Each	3.0
30	D-type handle: Anodised aluminium D-type handle of approved quality manufactured of size 100 mm grip x 12 mm dia rod.	Each	6.0
31	Aluminium sliding Window:- Supplying, fitting & fixing of 2-Track Aluminium sliding Window of all Aluminium sections viz. window frame (top, bottom & side frame), shutter (top, bottom, side & interlock member) made of aluminium alloy extrusions conforming to IS 733-1983 & IS 1285-1975, anodised conforming to IS 1868-1983, fitted with all other accessories viz. PVC roller, EPDM gasket, maruti lock, screws etc. including labour charges for fitting & fixing of aluminium 2-track/ sliding window with fixing of glass (excluding cost of glass) all complete. 10-12 Micron thickness Anodizing film Natural white	Kg.	10.0
32	Aluminium fixed partition wall :- Supplying, fitting & fixing of Aluminium fixed partition wall of all aluminium sections viz top, bottom and side member, intermediate member, glazing clip made of Aluminium Alloy Extrusions conforming to IS: 733-1983 and IS: 1285-1975, anodized conforming to IS:1868-1983, fitted with all other accessories viz. EPDM gasket, cleat, angle screws etc. including labour charges for fitting and fixing of aluminium fixed partition wall with glass / panel board all complete. (Excluding cost of glass/ panel board. 10-12 Micron thickness Anodizing film. Natural white.	Kg.	80.0



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33	Plaster work : Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed including throating, nosing and drip course, scaffolding/staging where necessary With 1:4 cement mortar 15 mm thick plaster	Sq. M	45.0
34	Chipping of concrete surface: - Labour work for Chipping of concrete surface up to 25mm depth before taking up water proofing of roof & laying tiles.	Sq.M	200.0
35	Providing & fixing of glass panes: - Supplying best Indian sheet glass panes set in putty (as per I.S specification) and fitted and fixed with teak wood beads and nails complete. (i) 4 mm thick	Sq. M	10.0
36	Cement Putty :- Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand(1.5mm thick)	Sq.M	200
37	Primer for applying distemper: Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete.) One Coat Water based interior grade Acrylic Primer	Sq. M	200
38	Distemper paint: - Acrylic Distemper to interior wall, including cleaning and smoothing of surface. Two Coats	Sq. M	400
39	Cleaning of wall & ceiling & all required painting surface:- Removing loose scales, blisters etc. from old painted surface and thoroughly smoothing the surface to make the same suitable for receiving fresh coat of paint.	Sq. M	500
40	Priming coat on metal/wood surface:- Priming one coat on steel or wood surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc.	Sq. M	300
41	Painting on metal/wood surface:- Painting with best quality synthetic enamel paint of approved make (iv) Two coats (with any shade except white)	Sq. M	400
Any small items/works fully borne by contractor.			



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Note: i) All required materials related to the work will be strictly followed by approved make list and standard specification listed as Part 3 "Specification & Details" of published NIT.

ii) . Apart from above mentioned details if any supporting items/service require to execute the job then vendor will execute the job without any cost and accordingly the vendor has to consider price on lum sum basis for complete work.

iii) Payment will be made as per actual quantity fitted.

v) Engine & Dynamometer Mounting Arrangement:

(aa) The existing engine platform is approx. 9 meter long and 3 meter wide enough to accommodate the proposed MTU engines. No modification/extension is required.

(b) MECHANICAL WORK (SERVICES) FOR UPGRADATION OF TEST BED

(i) The setup of Test bed no 1 is as per layout drawing at Annexure-VIII for reference.

(ii) Laying of Pipelines along with accessories, machineries & system installations, alignment, modification of Exhaust trunking, Fitment of various Valves, Filters, pumps etc. are under the vendor scope.

(iii) The following systems are part of up gradation of Test bed and the detailed layout has been attached as Annexure-VIII for reference & installation.

(aa) Fuel Oil System

(ab) Start Air System

(ac) Raw Water System

(ad) Fresh Water System

(ae) Lub Oil System

(af) Air Intake System

(ag) Exhaust Air system



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(c) ELECTRICAL WORK (SERVICES) FOR UPGRADATION OF TEST BED

- (i) The setup of Test bed no 1 is as per layout drawing at Annexure-VIII for reference.
- (ii) The layout of Three Phase and single phase Electrical Power supply cables including fitment & Connectorisation of various consumables on the test bed & Control room are under scope of vendor.
- (iii) Manufacturing of Various Stands for Placement of panels as per drawing reference at Annexure-VIII are under scope of vendor.

(d) SUPPLY AND COMMISSIONING OF OFFICE EQUIPMENT FOR UPGRADATION OF TEST BED:

-The control monitoring room is required to have two numbers A/C's, two number fans, tables and chairs to facilitate testing of the engine. Following are the major new item / equipment required. For requirement of commissioning of said items like-socket,cable,Three pin top or MCB ,it will be scope of vendor.

SI No.	Item	Source	Qty	Remarks
(i)	SPLIT AC	Indigenous (Voltas, Hitachi, Samsung, LG, Godrej)	02 No.	2 ton
(ii)	Ceiling Fan	Indigenous	03 No.	Supply of AC 230/250 volts, 50 HZ energy efficient Ceiling Fan with standard down rod, blades, 2 Nos. color white caps etc complete (Make: Havells, Philips, Crompton Greaves, Usha, PSPO)
(iii)	Office Table & Chairs	Indigenous (Godrej Interio, Durian,	12 No.	<u>For Watch Keeping Table (Qty : 01):</u> Length:2100 mm (approx.) Breadth:900mm (approx.)



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		Geeken, Zuari)		Height: 760mm (approx.) Standard Office Table (Qty : 01): Length:1400 mm (approx.) Breadth:680mm (approx.) Height: 760mm (approx.) Watch Keeping Chair (Qty: 01) Fixed: Width:590 mm (approx.) Depth:490mm (approx.) Height: 980mm (approx.) Office Armed Chair (Qty : 09) Fixed: Width:580 mm (approx.) Depth:670mm (approx.) Height: 1255 mm (approx.)
(iv)	Rubber Mat	Indigenous	1 set	(At Electrical power installation) Length: 5 mts Breadth: 5 mts Thickness: 10 mm
(v)	Fire Fighting appliance (CO2 Fire fighting Extinguisher and ABC Powder type	Indigenous	1 Set	Make-STD (Palex, Firetech, Cease Fire)

Note:-

i) All required materials related to the work will be strictly followed by approved make list and standard specification.

ii) . Apart from above mentioned details if any supporting items/service require to execute the job then vendor will execute the job without any cost.

iii) Payment will be made as per actual quantity fitted.



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(e) MECHANICAL SCOPE OF PROCUREMENT / SUPPLY FOR UPGRADATION OF TEST BED:

As per layout the systems mentioned below are to be installed at Test bed. The layouts are attached as Annexure VIII. While undertaking work for the systems below all necessary accessories requirements like clamps, foundation, brackets, retainers etc. is under the scope of vendor.

(i) **FUEL OIL SYSTEM:** The layout is attached as Annexure-VIII for reference. The Layout of piping along with pressure testing, Painting is to be undertaken as per drawing of Annexure VIII along with required accessories. Following are the major new item / equipment in required in Fuel Oil System:

SI No.	Item	Source	Qty	SPECIFICATION
(aa)	Fuel Pipe from Tank plant to test bed replacement.	Indigenous	500 meter	DIN 32 MS (42X4 mm)
(ab)	Fuel Pipe inside test bed replacement	Indigenous	100 meter	DIN 32 MS (42X4 mm)
(ac)	Fuel Inlet Ball Valve	Indigenous	1	Forged Ball Valve
(ad)	Solenoid Valve	Indigenous	1	24VDC Operated Valve
(ae)	10 Micron Fuel Filter Before Fuel Tank In Main Line	Indigenous	1	10 Micron cartridge filter
(af)	Fuel Tank	Indigenous	1	1000 L Capacity Sheet Of Thickness 08mm



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(ag)	High Level Switch FLOAT SWITCH AT 900 L	Indigenous	1	Float Level Switch Flange Mounted
(ah)	Low Level Switch FLOAT SWITCH AT 300 L	Indigenous	1	Float Level Switch Flange Mounted
(aj)	Ball Valve	Indigenous	1	MAKE – STD
(ak)	Pressure Gauge (0- 10 BAR)	Indigenous	1	MAKE - STD
(al)	Elect. Temp. Sensor	Indigenous	2	PT 100 SENSOR
(am)	Ball Valve	Indigenous	1	FORGED BALL VALVE
(an)	Fuel Flow Meter	Indigenous	1	1000 L /Hour. With remote indication
(ap)	Ball Valve	Indigenous	1	FORGED BALL VALVE
(aq)	Thermometer	Indigenous	1	Analogue
(ar)	Elect. Temp. Sensor	Indigenous	1	PT 100 SENSOR
(as)	Pressure Gauge (0- 10 BAR)	Indigenous	1	Analogue
(at)	Vent Tank (5L)	Indigenous	1	MS ,Capacity – 5L



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(au)	Thermometer	Indigenous	1	Analogue
(av)	Ball Valve BEFORE COOLER	Indigenous	1	SS Forged Flanged Ball Valve
(aw)	Motor Control Valve for fuel temperature control	Indigenous	1	3 phase motor control valve
(ax)	ANALOGUE TEMPERATURE GAUGE BEFORE ENGINE	Indigenous	1	MAKE - STD
(ay)	Electrical Solenoid Valve	Indigenous	1	24vdc Operated Valve
(az)	Ball Value	Indigenous	1	Forged Ball Valve
(ba)	Filter BEFORE ENGINE	Indigenous	1	10 Micron Cartridge Filter
(bb)	Ball Value	Indigenous	1	Forged Ball Valve
(bc)	SEPAR FILTER 130 LPM	Indigenous	1	Separ Filter For Water Separation, Switchable With Back Flush Facility
(bd)	Level sight side Glass	Indigenous	1	MAKE - STD
(be)	10 HP PUMP MOTOR PRIOR	Indigenous	1	MAKE - STD



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	FUEL CONSUMPTION METER			
(bf)	Consumable, FASTNER ETC	Indigenous	1	MAKE - STD
(bg)	Fuel Cooler	Indigenous	1	Make-STD

- (ii) Start Air System:** The layout is attached as Annexure-VIII for reference. The Layout of piping along with pressure testing, Painting is to be undertaken as per drawing of Annexure VIII along with required accessories. Following are the major new item / equipment in required in Start air system:

SI No.	Item	Source	Qty	Remarks
(aa)	Renewal Of Pipe Inside Test Bed. MS PIPE	Indigenous	300 meter	DN 20 (25x3.5 MM)
(ab)	Pressure Gauge (0-70 Bar)	Indigenous	2 nos.	DIGITAL
(ac)	Adjustable Air Reducer valve	Indigenous	1	(40 bar to 1.5 Bar pressure regulator)
(ad)	Pressure Gauge	Indigenous	1	0 to 10 bar
(ae)	T- Joint	Indigenous	1	SS T JOINT 40 BAR



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(af)	Air Receiver With Pressure Relief Valve And Pressure Regulator	Indigenous	1	<p>The Air receiver shall consist of following :</p> <p>a) Air Bottle ,600L Vertical</p> <p>b) Pressure relief Valve 50 Bar</p> <p>c) Out Put Pressure regulating valve</p> <p>d) In let shut off Valve</p> <p>e) Out let shut off valve</p> <p>f) Pressure Gauge 0-70 bar</p> <p>g) Pressure sensor 0-70 bar</p> <p>h) Drain arrangement with valve</p> <p>Note: Air receiver to be supplied with test certificate by statutory authority.</p>
(ag)	Pressure Sensor at Inlet to engine	Indigenous	1	0 -70 BAR INLET
(ah)	Flexible Hose Pipe	Indigenous	2 nos.	HIGH PRESSURE STEEL WIRE MESH FLEXIBLE HOSE PIPE approximate length of 3 mts each.
(ak)	Consumable, Fastner Etc	Indigenous	1	MAKE - STD

(iii) **Raw Water System:** The layout is attached as Annexure-VIII for reference. The Layout of piping along with pressure testing, Painting is to be undertaken as per drawing of Annexure VIII along with required



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accessories. Following are the major new item / equipment in required in Raw Water system:

SI No.	Item	Source	Qty	Remarks
(aa)	Renewal Of Pipe Inside Test Bed.	Indigenous	500 meter	100 DN MS PIPE- 115 x 8 mm
(ab)	Electronic Pressure Sensor 0-12 bar	Indigenous	2	Make-STD
(ac)	Mesh Filter Element	Indigenous	2	Make-STD 1.5 mm
(ad)	Flanged hose pipes	Indigenous	6	MAKE - STD
(ae)	Pressure Gauge 0-10 bar	Indigenous	8	Make-STD
(af)	Gate Valves	Indigenous	3	Make-STD
(ag)	Temperature Sensor PT 100	Indigenous	6	Make-STD
(ah)	Motor Control Valve for Charge /raw water inlet temperature control	Indigenous	1	3 phase motor control valve
(aj)	Consumable, FASTNER ETC	Indigenous	1	MAKE - STD

(iv) Fresh Water System: The layout is attached as Annexure-VIII for reference. The Layout of piping along with pressure testing, Painting is to be undertaken as per drawing of Annexure VIII along with required accessories. Following are the major new item / equipment in required in Fresh Water system:



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SI No.	Item	Source	Qty	Remarks
(aa)	Fresh Water Tank	Indigenous	1	1000 L WITH 8 mm MS SHEET
(ab)	Heater	Indigenous	4	12 kw
(ac)	Renewal Of Pipe Inside Test Bed.	Indigenous	300 meter	32 DN MS PIPE- 42 x 4 mm
(ad)	Thermostat	Indigenous	1	Temperature adjustable (10 to 300 degree)
(ae)	High Level Switch	Indigenous	1	FLOAT LEVEL SWITCH FLANGE MOUNTED
(af)	Low Level Switch	Indigenous	1	FLOAT LEVEL SWITCH FLANGE MOUNTED
(ag)	Teflon Sleeve Valve	Indigenous	5	MAKE - STD
(ah)	Ball Valve	Indigenous	2	FORGED BALL VALVE
(aj)	3-Way Cock	Indigenous	2	FLANGED END SS 3 WAY BALL VALVE
(ak)	Analogue Temperature Gauge Before Engine	Indigenous	1	MAKE - STD



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(al)	Pressure Gauge (0-10 BAR)	Indigenous	1	Analogue
(am)	Elect. Temp. Sensor	Indigenous	1	PT 100 SENSOR
(an)	Circulation Coolant Pump	Indigenous	1	RPM-1430 KW-2.2 CosΦ – 0.82, PH-3, Hz-50
(ap)	Flanged hose pipes	Indigenous	2	MAKE - STD
(aq)	Consumable, Fastner Etc	Indigenous	1	MAKE - STD

(v) Lub Oil System: The layout is attached as Annexure-VIII for reference. The Layout of piping along with pressure testing, Painting is to be undertaken as per drawing of Annexure VIII along with required accessories. Following are the major new item / equipment in required in Lub Oil system:

SI No.	Item	Source	Qty	Remarks
(aa)	Renewal Of Pipes For Lube Oil System.	Indigenous	300 meter	MS PIPE DN 25 (35x4 MM)
(ab)	Priming Pump	Indigenous	1 no.	RPM-900 KW-0.75 (1HP)
(ac)	3 Way Valve	Indigenous	2 Nos.	FLANGED END SS 3 WAY BALL VALVE



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(ad)	Duplex Filter BASKET	Indigenous	2 Nos.	Make-STD
(ae)	Ball Value	Indigenous	2 Nos.	FORGED BALL VALVE
(af)	Filling Pump	Indigenous	1 No.	RPM-1440 KW-2.2 (3 HP)
(ag)	Flexible Hose Pipe Out (5 mts)	Indigenous	1 No.	Make-STD
(ah)	Consumable, FASTNER ETC	Indigenous	1	MAKE - STD
(aj)	Flanged hose pipes, 3 Mts each	Indigenous	2	MAKE - STD
(ak)	Flexible Hose Pipe In, 5 mts	Indigenous	1	Make-STD

(vi) Air Intake System: The layout is attached as Annexure-VIII for reference. The Layout of piping along with pressure testing, Painting is to be undertaken as per drawing of Annexure VIII along with required accessories. Following are the major new item / equipment in required in Air Intake system:

SI No.	Item	Source	Qty	Remarks
(aa)	Filter Box SS	Indigenous	1 SET	SS 1M3 WITH PROVISION FOR MOUNTING 8-10 FILTER AND OUTLET FOR TWO BANK. MANUFACTURING AS PER DRGS /SAMPLE
(ab)	Air Filter Elements	Indigenous	10	Make-STD



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(ac)	Rubber Hose Pipes. Make-STD	Indigenous	2	UP TO 6 METER LENGTH each (35 x 1500 mm)
(ad)	Consumable, Fastner Etc	Indigenous	1 Set	MAKE - STD

(vii) Exhaust Air System : The layout is attached as Annexure-VIII for reference. The Layout of piping alongwith pressure testing, Painting is to be undertaken as per drawing of Annexure VIII along with required accessories. Following are the major new item / equipment in required in Exhaust air system:

SI No.	Item	Source	Qty	Remarks
(aa)	Steel Flexible Hose Pipe 200 NB	Indigenous	2 Nos	Make-Standard Approx. 3 meter length
(ab)	Temperature Sensor Thermocouple	Indigenous	2 Nos	Ni-Cr Ni Thermocouple Make-Standard
(ac)	Electrical Pressure Sensor (-1 to 5 Bar)	Indigenous	2 Nos	Make-Standard
(ad)	Motor able Control Flap	Indigenous	1 no	Make-Standard
(ae)	Modification of Exhaust Pipes	Indigenous	1 no	Make-Standard



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CIN L35111WB1934GOI007891

Website: www.grse.in

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(af)	Exhaust Smoke Meter	Indigenous	1 no	Make-Standard / AVL
(ag)	Consumable, Fastner Etc	Indigenous	1 no	MAKE - STD

Note:-

i) All required materials related to the work will be strictly followed by approved make list and standard specification.

ii) . Apart from above mentioned details if any supporting items/service require to execute the job then vendor will execute the job without any cost.

iii) Payment will be made as per actual quantity fitted.

(f) ELECTRICAL SCOPE OF PROCUREMENT: Electrical power system work is being divided into two following groups:

(i) **Three Phase power electrical work:** There will be 3 phase power requirements for various equipment like motors, heaters, control panel etc. The layout plan is attached as Annexure VIII For reference. The Procurement of Cables (4 core x 2.5 mm², approximately 200 mts) & their dressing accessories are in the scope of vendor.

3 PHASE POWER WORK			
S No	Description	Unit	Qty
(aa)	Pump Starter Panel, 3 Phase 10 HP Raw Water System: 01 Nos, Lub Oil System: 01 Nos, Coolant System: 01 Nos, Spares-03 Nos	Nos	06
(ab)	Cable for 3 Phase Power Distribution from Various Panel to Equipment 3 core x 2.5 mm Multi strand Copper Armoured Cable	Mts	500
(ac)	3 Phase 4 Pole Power (MCCB) Distribution Board 100 Amp with BUS BAR & 3 Pole MCBs 63 Amp (08 Nos.)	Set	01
(ad)	Consumables for Cabling (Metallic Cable Tray, Metallic Cable TIES Etc.)	Meter	100
(ae)	Relay Panels for LOGIC Builders / Operation of Equipment	Set	02



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(af)	Connection STW LUMPSUM Labour 04 Personnel for 20 Days	Set	01
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- (ii) **Single Phase power electrical work:-** There will be single phase power requirements for various equipment like lighting, fans, ACs, Power socket etc. in Engine room as well as in Control Monitoring room. The Procurement of Cables (2 core x 2.5 mm², approximately 200 mts) & their dressing accessories are in the scope of vendor.

SINGLE PHASE POWER CABLING WORK FOR LIGHTING			
S no	Description	Unit	Qty
(aa)	RAW POWER DB: Supply and Installation metallic double door MCB Distribution Board with following MCB for RAW Incoming- 63 Amp, 4 Pole MCB-1 no & 20 Amps Single Phase MCB- 15 nos.	Nos	01
(ab)	RAW POWER SOCKET: 6/16 Amp Socket Outlet Point Wiring Power Point wiring for 5 pin 6/16 Amp, shuttered socket outlet with controlling switch from PDB with grade 2x4 sq mm and 1 x 2.5 sq mm wire in PVC Conduit with all accessories and controlling switch, suitable mounting box and front plate for socket.	Nos	10
(ac)	LIGHTING DISTRIBUTION BOARD (LDS) SPN 14 Way MCB DB comprising of following: Incoming 01 no 240 V, 32 Amps, DP MCB. Outgoing 06 nos. 240 V, 6 Amp Single Phase MCB & 06 nos. 240 V 10 Amp Single Phase MCB	Set	01
(ad)	AC Power Point: AC power point wiring from PDB to AC Power Points with 1100V grade 2 x 4 sq mm and 01 no. 1 x 2.5 sq mm copper wire in PVC conduit. Complete with all	Nos	06



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	accessories having 25Amp Single Pole MCB with plug, plug top and socket in sheet steel enclosure.		
(ae)	Light Point Wiring: Supply and laying of electrical point Wiring through PVC conduit including modular switches having 03 nos. 1x 1.5 sq mm copper wire, common neutral by looping method, common earthing by looping method along with circuit wiring work from DB to switchboards including interconnection with 2 x 2.5 sq mm and 1 x 1.5 sq mm single core copper wires in PVC conduit, 6 Amp switches of requisite module sizes including matching metal boxes. (01 Light control by 01 switch).	Nos	20
(af)	Street Light Point Wiring: Supply and laying of Electrical point wiring through PVC conduit including modular switches having 2 x 2.5 sq mm & 1 x 1.5 sq mm single core copper wire, common neutral by looping method along with circuit wiring work from DB to switchboards including interconnection with 2 x 4 sq mm &* 1 x 2.5 sq mm single core copper wires in PVC conduit, 6 Amp switches of requisite module sizes including matching metal boxes. (01 Light control by 01 switch).	Nos	20
(ag)	Cable Tray Laying: Supply and laying of metallic Cable Tray for laying of Wire / Cable along the entire premises	Meter	100
	Supply & Installation of Light Fittings & Fans		
(ah)	SITC of LED Light 12 W with Holder	Nos	5
(aj)	SITC of T5 LED 22W	Nos	10
(ak)	Industrial Pedestal Fan	Nos	5



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(al)	SITC of LED Light fitting 1 x 150 Watt	Nos	20
(am)	Dismantling of Existing Metal Structure and existing wiring and restoration of premises in good condition	Job	01

(iii) **Illumination in Test Bed No1 Area:** Supply, install and commission the lighting system of 750 lux luminous inside the workshop.

4. Dismantling of mechanical structure from shop-floor area in the work shop.
5. Fire safety measures in the workshop area.
6. Sewerage arrangement to be refurbished.
7. Supply, installation, commissioning & testing of Battery (12V,100AH).
8. For mechanical and electrical plant, equipment and systems supplied under the Principal Contract:
 - (a) Training of GRSE staff in the operation, maintenance and defect diagnosis.
 - (b) Provision of Operation and Maintenance Manuals, spare parts.
 - (c) Contractor to submit the specification of each items and obtain approval in writing prior supply of items against each system. Contractor to submit specification of all the items within 04 weeks from placement of work order. GRSE will accord approval/modify the specification within 02 weeks on receipt of specifications from contractor.
9. The Principal Contractor is responsible for overall management and co-ordination of site activities within the boundary of the works, as necessary to ensure the safety of the works and of persons at the site.
10. The Details of work pertaining to Specification & Detail of Work Content, against civil, electrical & supply of Mechanical equipment are given in the **Annexure- IX** for reference. Strict adherence to the specification is part of clearance from inspection.
11. Site Clearance on completion of the Works is under scope of Bidder & necessary clearances from QA inspector is to be administered.
12. **Principal Contractor's Capability and Resources**
 - (a) The Principal Contractor is to use modern construction equipment to achieve high productivity within the severely limited space available at the project site, and quality control.
 - (b) The Principal Contractor's contract management and supervisory team are to be of suitable high calibre necessary to manage site activities and logistics safely and efficiently.



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13. Sub-contractors

- (a) It is expected that the Principal Contractor will undertake the majority of the Civil Works using his own employed professional staff and operatives.
- (b) The Principal Contractor shall / can sub-contract some or all of the services works to one or more of the specialist services contractors with prior approval by GRSE.

14. Site Constraints

- (a) The Tenderer shall visit the site and assess the impact of access constraints by road on his work methods. Due to severe constraints of space at the site and on access, tenderer must carefully consider storage of materials and housing of workforce off site. Space required for activities such as structural fabrication work, concrete batching may not be available within the site area.
- (b) Tenderer must carefully consider his method of construction and safety of the works in relation to environmental factors.

15. Site Familiarisation

- (a) Before quoting, the Tenderer in his own interest shall carry out site visits to know the site conditions and full implications of the assignment. This will also help him in proper assessment of the work. Failure to do so will not absolve the contractor of his responsibility to carry out the work as specified in the Tender Documents. The cost of visiting the site shall be borne by the Tenderer and shall be at his own responsibility and risk. The Tenderer should apply to the Senior Manager (Purchase), DEP, GRSE, Ranchi to arrange site visits.

- 16. Site Consultations** The work shall be carried out in consultation with the Additional General Manager (I/c) DEP, GRSE Ranchi & with other officers as nominated by him, and with GRSE's Consulting Engineers.

- 17. Inspection Authority:** GRSE DEP QA for Inspection of procurement / supply material and Tender Committee for progress & Completion of work. The Work Completion Certificate will be certified by Tender Committee in two stages i.e post completion of installation & Trials of Test bed as per para 21 below.



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18. COMMISSIONING PERIOD :-

(a) On the foregoing basis, it is estimated that Commissioning could be completed within minimum man-days in accordance with vendor standard procedure.

(b) Anything not specifically mentioned in this specification, will be scope of vendor.

19. TRAINING:-

(a) On-going training to using personnel's especially on troubleshooting, Operation of the Test Bed, general up-keep etc. will have to be provided by vendor. No. of personal for training will be decide by GRSE/DEP-management.

(b) 04 (four) full working days training at GRSE DEP Ranchi is to be provided by the Vendor free of cost. Date will be intimated by GRSE.

Note- Any Further Engine Data shall be provided on finalization of purchase order.

20. The following documentation should be provided along with the equipment by Bidder.

(a) One set of operation cum maintenance manual.

(b) One set of spare parts manual where ever applicable.

(c) General Arrangement drawings & Wiring diagram.

21. Installation & Commissioning: After Completion of work by vendor, load trial and commissioning with the help of combustion engine will be undertaken in presence of the Rep of GRSE. GRSE/DEP will arrange Combustion engine within three months from the date of offer of test bed for trials by the vendor. If engine is not available for undertaking trials during the period of three months, the vendor can submit the bill accordingly for necessary clearance. After satisfactory result of test and trial Acceptance-cum-Commissioning Certificate will be given to Vendor by the inspection authority & the Tender Committee.

22. Required Experience: The bidder must have undertaken one similar work of construction/ erection/ fabrication/ installation etc. in past Seven years of order value Rs 1.5 (One crore fifty Lakh) or two similar work of Order Value Rs 75 Lakh each or three similar Work of Order Value Rs 50 Lakh each. Necessary documents in form of Work Order / Completion Certificate etc. are required to be submitted by the bidder for verification and acceptance for further process. Non-Submission of requisite documents by bidders are liable for non-consideration for further Tender Process.



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23. The Bidders are required to submit details (make model etc.) regarding standard supply of deliverables & plan for execution of work on totality along with the NIT (ONLINE AS WELL AS HARD COPY) for technical validation & acceptance by Tender Committee. GRSE has the right for non-consideration of offered deliverable items proposed to be supplied by the bidder, for technical evaluation, thus bidder are liable for non-consideration for further tender process.

24. Delivery Period: The Scope of work is estimated to be completed within 120 Days from the date of issue of Purchase Order. The Scope of work includes supply of deliverables, installation & commissioning including satisfactory trials of the Test bed.

25. Average Annual Turn-Over: The minimum average annual turnover of the bidder to be not less than Rupees 50 Lakh for five Financial Year FY- 17-18, FY- 18-19, FY- 19-20; FY: 20-21 & FY: 21-22. The bidders are required to submit documentary proofs for ascertaining the clause.



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ANNEXURE-II

STANDARD TERMS AND CONDITIONS (STAC)

1. The bid must be valid for 180 days from the tender opening date.
2. The price quoted for the **Upgradation of Test Bed no 1** shall remain firm and fixed till execution of the order in full. The price quoted must be legibly written or type written both in words and figures. Price quoted should include proper packing to withstand air / inland transit, tropical storage during transit clearing and Scope of Supply as per Statement of Technical Requirement (SOTR).
3. The lowest bidder will be decided on the basis of the total quoted price for the Supply, Erection, Testing and Commissioning for Upgradation of Test Bed no 1 i.e. on totality basis. Price quoted should also be inclusive of packing / forwarding / freight / toll tax / etc. charges.
4. GST shall be clearly indicated, separately, both in the commercial and the price bid. However, GST applicable at the time of despatch will be paid by GRSE.
5. The price quoted for supply, erection, testing and commissioning (including incidental charges) shall be FOR, DEP Ranchi Stores.
6. Delivery should be made within the delivery period indicated in SOTR. The date of delivery shall be considered the date of receipt at DEP Ranchi Stores.
7. All supplies will be subjected to GRSE's inspection and approval in our works. The rejected materials if any will have to be removed within 10 days from the date of rejection at supplier's expenses. Such rejected and if not removed within the specified date then DEP has the right to dispose of the same. DEP shall also be entitled to recover ground rent on these rejected stores after expiry of the specified date.
8. Goods rejected by DEP will lie in the premises at the Seller's sole responsibility. DEP shall in no way be responsible for any deterioration or damage to such goods, under any circumstances whatsoever. DEP will not be responsible for loss, damage of rejected material lying at DEP after three months of Goods Receipt Note (GRN).
9. All goods supplied according to the purchase order shall be inspected, re-inspected at the DEP and acceptance of the goods shall always be subjected to such inspection. If the goods supplied are not as per order specification or otherwise not satisfactory for any reason of which DEP will be the sole judge,



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DEP shall be entitled to reject the supplies, cancel the purchase order, buy requirement from elsewhere and recover from Seller the extra cost incurred for replacement, and if the situation warrants, even by legal means.

10. Despatches:

- a) When despatching by rail / road transport or order modes of transport from outstations, goods shall be securely packed to avoid damages. Packing for railways despatch should conform to Railway regulations. The Seller will be liable for all breakages, losses resulting from defective packaging.
- b) The e-Way Bill no. must be mentioned in your challan, invoices, otherwise bill may not be entertained. The Consignee copy of transporter/Railway receipt/ Air way bill must be sent to DEP.
- c) Demurrage charges due to lapses of incomplete, faulty improper documents, postal delays will be Seller's account.
- d) Any loss arising out of non-availability of packing list will be to Seller's account.
- e) All components should be tagged properly for identification.
- f) The items should be preserved as per different requirement.
- g) GRSE reserves the right to engage the Seller for Joint Receipt Inspection, if required.
- h) Transit insurance to be arranged by Seller.

11. Packaging:

All packages are to indicate outwardly besides the consignor and consignees name following details:

- a) Purchase order no.
- b) Package serial no.
- c) Special packing marking should be there for fragile / sensitive items. A packing list which should also indicate details at (a) to (c) above must be enclosed in the case packing to enable verification of contents at the receiving point or when taking open delivery case, any loss arising out of faulty packing will be to Seller's account.
- d) The packages / container must have proper hooks / arrangement for ease of unloading.

12. Consignment details:

All consignment should be booked to the Buyer and not to self. The RR copy and 2 copies of the relative challan and a copy of the packing list giving all relevant details along with guarantee certificate should be sent to the Buyer's: Dy. Manager (Stores), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004, immediately on booking. Losses incurred to DEP



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owing to Seller's failure to adhere to these conditions will be recovered from the Seller.

13. Performance Bank Guarantee:

- a) Successful bidder will deposit an amount equivalent to 3% of the total contract value, as interest free Performance Bank Guarantee in the form of Bank Guarantee favouring GRSE Ltd., Ranchi on any Scheduled Bank other than Co-operative Bank, within 15 days of successful installation and commissioning. Bank Guarantee as per GRSE format towards PBG will have to be submitted fresh.
- b) PBG submitted in the form of B.G should be forwarded directly to AGM (I/C-DEP), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004, in Banker's sealed envelope. PBG to be kept valid till completion warranty period
- c) Non-submission of PBG within the stipulated time would entitle GRSE to claim interest at SBI Prime Lending rate prevailing at the time of such imposition on the amount of PBG to be submitted from the due date of submission till the date of actual submission of the same. GRSE may recover such interest from the bills of the Contractor/Successful Bidder for which no separate notice shall be issued.
- d) GRSE reserves the right to invoke the above BG at any time during its validity period in the event of any breach of terms stipulated in the order.

14. Payment Terms:

a) 90% payment of bill against order value on line item basis against submission of PBG of 3% of Total Purchase Order Value of published tender will be paid through ECS/NEFT within 30 days against ink signed invoice supported with pre-dispatch inspection certificate of seller / test certificate if any / warranty or guarantee certificate. Receipt of material / work undertaken in services to be certified for processing of payment post clearance by SM(Tech)/Mgr (P&S)/DM(Maint).

b) Balance Payment of 10% of Purchase Order Value (against submission of PBG) of published tender will be paid post satisfactory completion of trials & requisite bills submitted by vendor with Final work Completion certificate issued by Tender Committee.



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- c) In Case of non-Submission of PBG, 10% of Purchase Order Value will be retained by GRSE and the same will be released post Guarantee & Warrantee period as per clause Annexure-II para 16 of published Tender.
15. **Liquidated damage:** For delay in delivery beyond the scheduled delivery date, L.D. will be imposed, @ 0.5% of undelivered portion, per week or part thereof, subject to a maximum of 5% value of PO.
16. **Guarantee / Warranty:** The firm has to provide Guarantee / Warranty as follows
- (a) For Supplied Items: Guarantee / Warranty of 12 Months from the Date of submission of Final Work Completion Certificate.
- (b) For Services: Guarantee / Warranty of 06 Months from the Date of submission of Final Work Completion Certificate.
17. **Risk purchase:** If successful tender fails to supply material within the stipulated delivery date, GRSE reserves the right to procure same or equivalent materials from alternative sources at the vendors risk, responsibility and cost. Any extra cost incurred in the procurement of the material from alternative sources will be recovered from the successful bidder and if necessary, by due legal process.
18. **Patent right:** GRSE / DEP shall be completely absolved of any responsibility towards any infringement of patent right etc. i.e. a clear and quite possession of goods should take place with the passing of title on execution of the order.
19. **Demurrage / Wharf age charges:** For late submission of original despatch documents/ wrong documentation, demurrage / wharf age charges, if incurred, from the supplier.
20. **Delivery:** Ordered material shall be delivered between 9:30 Hrs. to 1300 Hrs. and 1330 Hrs. to 1630 Hrs. only on full working days. Late supply will not generally be accepted.
21. GRSE reserves the right to accept / reject any Tender in full or in part without assigning any reason.
22. No Conditional offer will be accepted.
23. **Individuality of contract:** 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.



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- 24. Registration of approved vendor:** The contractor is to confirm whether they are registered with GRSE as approved Vendor and Indicate Supplier's Code (5 digits) and product Code group. If not an approved vendor, provisional vendor registration code is to be taken from GRSE Vendor Registration Cell prior to placement of order.
- 25. Correction of errors:** Bids determined to be responsive will be checked by the Employer for any arithmetic error. Errors will be corrected by Employer as follows:
- a) Where there is a discrepancy between the rate in figures and in words, the rate in words will govern.
- 26. Compliance with laws:** Vendor is warranted that all goods purchased against the inquiry shall conform with all applicable City, States and Central laws, Ordinances and Regulations. Further, Vendor shall indemnify/defend/relieve GRSE harmless from loss, cost of damage, by reason or any actual or alleged violation thereof.
- 27. Secrecy clause:** All information given to the supplier for the execution of the order is to be related as Secret / Confidential. The technical information, drawings, specification and order related document forming part of this enquiry / order are the property of the Purchaser and shall not be used for any other purpose except for execution of the order.
- 28. Force majeure:**
- a) 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.
- b) 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



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as indicated above cannot be considered as a Force Majeure condition under this contract.

29. Arbitration:

- a) 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.
- b) 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 .
- c) Such arbitration shall, in all respects, be conducted in accordance with the provisions of the Arbitration and Conciliation Act, and the rules framed there under or any statutory modification or re-enactment thereof for the time being in force.
- d) The Award of the Sole Arbitrator shall be final, conclusive and binding upon the Parties.
- e) 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.
- f) 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.
- g) 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



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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 700024.

h) The language of the proceeding shall be in English.

30. **Jurisdiction:** Litigation, if any pertaining to this contract will come under the jurisdiction of High Court at Kolkata.

31. **Termination of contract:** In the event of non-performance of the job within the delivery period, GRSE reserves the right to cancel the order in part or in full, and no compensation whatsoever will be entertained.

32. Unless otherwise mentioned all other terms and conditions will be as per General Conditions of Purchase in GRSE.

33. **TERMS OF PRICE :** Price quoted to be firm & fixed till execution of work F.O.R. GRSE Ranchi delivery. No claim will be entertained due to sudden fluctuations of rates of labour and materials, freights, taxes and duties at any stage.

34. **PRICE:**

a) Price bid need to be filled up in given price bid data sheet only **in online excel data sheet**. No other attachment regarding price will be allowed , if so, then offer will be treated as cancelled.

b) L1 bidder will be decided based on quoted **total cost for the project** (Totality basis) and **NOT** on individual items.

c) DEP, Ranchi (GRSE) has right to place the part Work order / remaining work Order on line item basis to L2 firm on circumstances of L1 bidder noncompliance to terms and conditions / unsatisfactory performance by L1 Bidder / urgency to meet Delivery period to L2 bidder, on condition of L2 Bidder matching price & terms of acceptance at L1 accepted terms & cost on totality basis. If L2 bidder does not accept the price and terms of acceptance at L1 accepted terms & cost on totality basis then next bidder i.e. L3 will be considered for part Work order / remaining work Order on line item basis provided the bidder matches the price & terms of acceptance at L1 accepted terms & Cost on totality basis, similarly for L4 & so on.

Note: If work is partially completed for particular line item by vendor & due to circumstances the work could not proceed then L2 Bidder will be

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approached to complete the partial work (of that line item) & complete billing for that line item will be claimed by L2 Bidder (L1 in this case can't claim against the line item). In case L2 Bidder does not accept the work, then L3 bidder may be approached and similarly L4 and so on.

- d) As a general rule, Price Negotiation with L1 vendor (s) will not be entered into as far as possible, unless warranted by unreasonable price quoted in the opinion of GRSE. The quoted price should be inclusive of all statutory Taxes/Levies and other charges as applicable. The price should remain firm & fixed till satisfactory execution of the entire contract with no escalation applicable whatsoever. GST will be paid as per the ruling rate on the date of service/supply.



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ANNEXURE - III

FORMAT NO. OS/03/0085

GARDEN REACH SHIPBUILDERS & ENGINEERS LIMITED

43/46, Garden Reach Road, Kolkata 700 024

(GUIDELINES OF BANK GUARANTEE)

1. Non- Judicial Stamp Paper – N. J. S. Paper of Rs. 50/- (Rupees Fifty Only) is to be Obtained in the name of the banker for execution of the Bank Guarantee. If a single Stamp Paper of Rs. 50/- is not available, Stamp Papers of multiple denominations may be used but the serial nos. or purpose of each Stamp Paper be of consecutive nos. and purchased on the same day. Such Stamp Paper should not be older than one year or the date of Purchase Order / Contract whichever is applicable. Stamp Papers obtained in the name of the supplier will not be accepted.
2. Address of the Supplier / Contractor and the executing Bank should be incorporated in full in the Bank Guarantee.
3. Bank Guarantee should be executed by scheduled Banks preferably by Nationalised Banks and should be sent in Banker's sealed envelope directly to AGM (I/C), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004. Super scribing the word " BANK GUARANTEE ".
4. No. confirmation of B. G. is required to be obtained from issuing Bank if the B. G. Executed by Scheduled / Nationalised Banks is received in Banker's sealed envelope.
5. The Bank Guarantee should conform strictly in conformity with the terms and Conditions of the order and in GRSE's standard format prescribed against each of the above cases.
6. Expiry date should be in accordance with the requirement of contractual terms and the claim period for preferring the claim should not be less than six months from the date of expiry of any case.
7. Bank Guarantee shall be free from all infirmities and typographical errors / Deletions / inclusions / riders etc., requires to be authenticated by Bank's signatory with Official seal.
8. Issuing Bank should furnish confirmation towards execution of Guarantee Immediately on receipt of GRSE's formal letter for same. Confirmation letter should Contain GRSE's letter reference requested for and must be in Bank's sealed cover Addressed to GRSE.



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ANNEXURE IV

FORMAT OF BID SECURITY DECLARATION

Date: DD/MM/YYYY

Bid Ref: _____

Tender Ref: _____

To

M/s. Garden Reach Shipbuilders & Engineers Ltd.

43/46, 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.

We accept that we will automatically be suspended from being eligible for bidding in any contract with M/s. GRSE 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 **XX** 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]

[Note: In case of a joint venture, the Bid Security Declaration must be in the name of all partners to the Joint Venture that submits the bid.]



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Annexure V

**FORMAT OF BANK GUARANTEE TOWARDS SECURITY DEPOSIT
GUARANTEE BOND
(to be used by all scheduled banks)**

1. In consideration of M/s. Garden Reach Shipbuilders & Engineers Limited, 43/46, Garden Reach Road, Kolkata – 700 024 (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



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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 theday of



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Annexure VI

**FORMAT OF BANK GUARANTEE TOWARDS PERFORMANCE
GUARANTEE BOND**

(to be used by all scheduled banks)

THIS DEED OF GUARANTEE made this day of .

.....

..... BETWEEN

.....

(hereinafter called "THE BANK") which expression shall unless excluded by or repugnant to the context be deemed to include its successors in Office and assigns of the ONE Part and GARDEN REACH SHIPBUILDERS AND ENGINEERS LIMITED, having their Head Office at 43/46, GARDEN REACH ROAD, KOLKATA – 700 024 (hereinafter called "THE BUYERS") which expression shall unless excluded by or repugnant to the context be deemed to include their successors in office and assigns of the other part. WHEREAS, Messrs

..... having its registered office at

(hereinafter called "THE SELLER") have accepted an Order No.

..... for supply of

..... from the Buyer to manufacture and deliver the same

to Buyer in good condition.

AND WHEREAS it is one of the terms of the said order that the Seller shall furnish to the Buyer a Bank Guarantee comprising % of the value of the order amounting to Rs.

(Rupees

.....)only for the

satisfactory performance of the equipment's supplied against the said Order at

least for a period offrom the date of supply i.e.

from

.....

AND WHEREAS the Buyer has agreed to accept such Bank Guarantee.

NOW THIS INDENTURE WITNESSETH THAT in consideration of the premise the

Bank hereby

unequivocally undertakes and agrees with the Buyer to pay to the Buyer upon

demand in writing whenever required so by them to do and within a fortnight from

the date of such demand sum or sums not exceeding in the whole of Rs.

.. (Rupees



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.) only as may become payable to the Buyer by the Seller by virtue of or arising out of the Terms and conditions of the said Order.

Provided it is hereby expressly stipulated and agreed that if any question arises as to whether any sum has become payable by the Seller to Buyer by virtue of or arising out of the said Order, the decision of the Buyer will be final and conclusive and the Guarantee herein contained shall not be revocable by notice or by reason of dissolution or winding up of the business of the Seller or any change in the constitution or composition of the Seller's business and the liability of the Bank under this presents shall not be impaired in any way by any extension of time or variation or alteration made given conceded in the conditions of the said

Order or any other indulgence given by the Buyer or by reasons of any failure on the part of the Buyer to enforce any of their remedies against the Sellers and / or by reasons of failure on the part on the part of Buyer to observe or perform any of the stipulation contained in the said order and to be observed or performed by the Sellers or by any other dealings between the Buyer and the Seller whether any of the above takes place with or without the knowledge of the Bank and that the Guarantee herein contained shall remain in full force and virtue only. All claims and demands of the Buyer arising out of or in connection with the said Order have been fully paid and satisfied PROVIDED ALWAYS AND IT IS HEREBY AGREED BETWEEN THE PARTIES THAT a Bank's liability under this Indenture shall remain in full force the date of issue of the Guarantee till

.....and is limited to a sum of Rs. (Rupees) Only.

NOTWITHSTANDING anything stated above our liability under the Guarantee is restricted to Rs. (Rupees) Only. Our Guarantee shall remain in force up to and unless a claim or demand in writing is made on the Bank within 6 months from the date of expiry of the bank Guarantee the Bank shall be released and discharged from all liabilities thereunder.

S E A L
Of the Bank

Date:



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Annexure VII

INTEGRITY PACT

Between M/s. Garden Reach Shipbuilders & Engineers Limited (GRSE) hereinafter referred to as "The Principal"

and..... hereinafter referred to as " the Bidder /Contractor"

The Principal intends to award, under laid down organizational procedures, contract/insert/delete's for..... The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness /transparency in its relations with its Capital Bidder(s)/ or Contractors(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principals mentioned above.

Section 1 - Commitments of the Principal

[1] The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

a. No employee of the Principal, personally or through family members, will in connection with the tender for , or the execution of a contract, demand, take a promise for or accept for self or third person, any material or immaterial benefit which the person is not legally entitled to.

b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provided to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

c. The principal will exclude from the process all known prejudiced persons.

[2] If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/ Contractor(s)

[1] The Bidder(s) /Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

a. The Bidder(s) / Contractor(s) will not, directly or through any other person or



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- firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant 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 Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined 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 Bidder(s)

/Contractor(s) from the tender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings" is annexed and marked as Annex – B".



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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 subcontractors 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 its provisions.

Section 7 – Criminal charges against violating Bidder(s) Contractor(s)/Subcontractor(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 Subcontractor 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 performs his functions neutrally and independently. He reports to the Chairman GRSE.



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- (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 meetings 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 beginswhen 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 by Chairman of GRSE.

Section 10 – Other provisions:



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- 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 Bidder/Contractor)

(Office Seal)

(Office Seal)

Place.....

.....

Date.....

.....

Witness 1:

(Name & Address)

Witness 2:

(Name & Address)