



## GARDEN REACH SHIPBUILDERS & ENGINEERS LTD.

गार्डन रीच शिपबिल्डर्स एण्ड इंजीनियर्स लिमिटेड  
(A GOVERNMENT OF INDIA UNDERTAKING)

(भारत सरकार का प्रतिष्ठान)

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CIN सी आई एन: L35111WB1934GOI007891

### NOTICE INVITING TENDER (NIT)

#### निविदा आमंत्रण सूचना

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

NIT No. निविदा संख्या :	<b>SCC/AJK/OT(Press)/Repairing &amp; Retrofitting/022/ET-1871</b> Date: 01.07.2022
Job Title कार्य का नाम:	<b>Repairing and Retrofitting of Old office Building at GRSE Main, 61 Park Unit and RBD Unit [to be executed as per SOTR No. TS/CIVIL/22-23/01]</b>
Tender issuing Dept. विभाग द्वारा जारी:	Contract Cell संविदा विभाग (GRSE Main)

**This tender is related to previous tender ref. no. SCC/AJK/OT (Press)/Repairing & Retrofitting/022/ET-1863 Dt. 28.05.2022 which has already been cancelled on 30.06.2022.**

#### **ARTICLE 1 अनुच्छेद-1: SCHEDULE OF CALENDAR DATES समायावली की अनुसूची:**

SCHEDULE सारणी		
Pre Bid Meeting (if applicable) बोली-पूर्व बैठक (यदि लागु है)	08.07.2022	11.00 Hrs.
Tender Due Date निविदा जमा की अंतिम तिथी	22-07-2022	12:00 Hrs.
Tender Opening Date (Part I) निविदा खुलने की तिथी	25-07-2022	14:00 Hrs.
Offer Validity Period minimum ऑफर की नियुक्तम वैधता अवधि	90 Days from Tender due date	

**ARTICLE 2 अनुच्छेद-2: COMMERCIAL REQUIREMENT FOR THE NIT निविदा की व्यवसायिक आवश्यकता:**

<b>FEES / DEPOSITS</b>	
Tender Fee (refer clause 03 of STAC) निविदाप्रपत्र मुल्य (स्टैक के परिच्छेद 03 मे उदधृत)	INR 500 (Rupees Five Hundred only)
Earnest Money Deposit (EMD) (refer clause 04 of STAC) बयाना राशि जमा (स्टैक के परिच्छेद 04 मे उदधृत)	INR <b>5,00,000/-</b> (Rupees Five lakhs only)
Security Deposit (SD) प्रतिभूति	3% of Order Value (incl. GST)
PBG पी बी जी	3% of Order Value (incl. GST)
Liquidity Damage परिनिर्धारित नुकसान	½ % per week max. 5 % of unexecuted job
Billing Frequency बिल करने की अवधी	Monthly basis (until completion)
Evaluation of L1 एल1 का मूल्यांकन	Package wise L1 bidder will be decided

**Note:-** 1. **Attending Pre-Bid meeting & visit of Site is mandatory for participation against this tender as per SOTR. Any bid received from any vendor who has not visited the site as well as pre bid meeting will not be considered for processing of the tender. For site visit, please contact Sri. Tanay Saha SM (YM-CIVIL), mob: 7603039445/ E-mail: Saha.Tanay@grse.co.in and Sri Debojit Nandi, JM (YM), Mob: 8100188120, Nandi.Debojit@grse.co.in.**

2. **Pre Bid Meeting and site visit is not mandatory for the bidders who already attended Pre bid meeting and visited site against the NIT No. SCC/AJK/OT (Press)/Repairing & Retrofitting/022/ET-1863 dt. 28.05.2022.**

3. Bidders are required to submit EMD amount as Bid Security in the form of DD/ Pay Order against this tender as per the Clause Ref. (2) of STAC, Enclosure-2. In case of withdrawal of the bid/ fail or refuse to execute the contract / fail or refuse to furnish the security deposit, the EMD shall liable to be forfeited.

MSE/NSIC registered firms having the tendered service listed in their MSE document will be eligible for exemption from submitting the EMD.

Non-submission of EMD or a valid MSE/NSIC certificate may lead to offer rejection.

The submission of EMD instrument is MANDATORY for joint-venture or consortium of two or more firms and there shall be no exemption applicable against submission of NSIC/MSE certificates by the firms.

**ARTICLE 3 अनुच्छेद-3: ANNEXURES FORMS PART OF THIS TENDER निविदा की संलग्नक प्रपत्र:**

<b>ARTICLES ENCLOSED FORMING PART OF THIS e-TENDER</b> ई-निविदा अंतर्गत संलग्नक परिच्छेद		
<b>Annexure 1</b> संलग्नक-1	Statement of Technical Requirement (SOTR) and Special Terms and Conditions	Yes

<b>Annexure 2</b> संलग्नक-2	GRSE Standard Terms And Conditions (STAC) (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 3</b> संलग्नक-3	Format for - Integrity Pact (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 4</b> संलग्नक-4	Format for Technical Eligibility Criteria (Attached with NIT)	Yes
<b>Annexure 5</b> संलग्नक-5	Format for Financial Eligibility Criteria (Attached with NIT)	Yes
<b>Annexure 6</b> संलग्नक-6	Format for Self Certification (Attached with NIT)	Yes
<b>Annexure 7</b> संलग्नक-7	Fire & Safety Guidelines (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 8</b> संलग्नक-8	Special condition of contract (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 9</b> संलग्नक-9	Contractors Responsibility (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 10</b> संलग्नक-10	General Requirement (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 11</b> संलग्नक-11	Check List for Bill submission (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 12</b> संलग्नक-12	Format for - Bank Guarantee Format for EMD (please refer <a href="http://www.grse.in">www.grse.in</a> → Tender → Enclosures Related to tenders of Sub-Contracting Activities)	Yes
<b>Annexure 13</b> संलग्नक-13	Format for - Bank Guarantee Format for SD (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 14</b> संलग्नक-14	Format for - Bank Guarantee Format for PBG (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes
<b>Annexure 15</b> संलग्नक-15	Guide line for Bank Guarantee (please refer <a href="http://www.grse.nic.in">www.grse.nic.in</a> )	Yes

**ARTICLE 4 अनुच्छेद-4: DOCUMENTS TO BE UPLOADED अपलोड हेतु दस्तावेज:**

Self-Attested documents are to be scanned and uploaded with Part I of e-bid ई-बिड के भाग-1 के साथ स्कैन एवं अपलोड हेतु स्वअभिप्रामाणित दस्तावेज		
1	DD/PO or MSE/NSIC Exemption certificate towards tender fee	Yes
2	Technical Acceptance format as available with NIT after being downloaded and filled up	Yes
3	Commercial Acceptance Format as available with NIT after being downloaded and filled up	Yes
4	Documents meeting the Technical Eligibility Criteria as per format at Annexure-4	Yes
5	Documents meeting the Financial Eligibility Criteria as per format at Annexure-5	Yes
6	Solvency Certificate of <b>Rs.1.0 Cr.</b> from Banker Required which should not be 06 (Six) months old w.r.t. this tender.	Yes

7	Audited/Certified Annual Accounts and Annual Report for immediate last three years in support of Financial Eligibility.	Yes
8	PAN /TAN , GST , Labour License Certificate , Registration Certificate of the Company with ROC	Yes
9	Integrity Pact (refer clause 01 of STAC)	Yes
10	Partnership Deed / Memorandum and the Article of Association of the firm confirming partners and lead partner	Yes
11	Government E-Market Place (GeM) registration certificate with Unique GeM Seller ID	Yes

- a. Registered Bidders with GRSE need not upload para 8 documents if valid documents already submitted / available with GRSE Vendor Registration Cell.
- b. Winning Bidder may submit ink signed hard copy of all above documents, prior to issuance of PO.

**ARTICLE 5 अनुच्छेद-5: DOCUMENTS IN PHYSICAL FORM TO SUBMIT** वास्तविक प्रपत्र जो जमा करने हैं:

PHYSICAL SUBMISSION		
1	Tender Fee instrument	Within 03 days from opening of Part-I bid
2	EMD Instrument	Within 03 days from opening of Part I bid
3	Integrity Pact	Scanned copy to be uploaded along with the bid & original to be submitted within 03 days from opening of Part I bid
NOTE:	If instruments submitted through demand draft, the same to be drawn in favour of :	GARDEN REACH SHIPBUILDERS & ENGINEERS LIMITED
	The demand drafts should be payable at	<u>Kolkata</u>

- a. Above original Negotiable Instruments as stipulated, to reach to AGM (Contract), Contract Cell, GRSE, Main Works within stipulated period as indicated above in a sealed envelope with tender number and job duly superscripting on it.

**ARTICLE 6 अनुच्छेद-6: JOB EXECUTION SCHEDULE** कार्य निष्पादन सूची:

- (A) **Job Starting Date** कार्य आरम्भ तिथि: Job must be started within 10 days after receipt of LOA/ PO (whichever is earlier).
- (B) **Job Completion date** कार्य समाप्ति तिथि: The entire job must be completed within 05 (five) months from the date of starting of the job.

**ARTICLE 7 अनुच्छेद-7: JOB EXECUTION** कार्य निष्पादन:

Refurbishment job has to be carried strictly as per SOTR for Electrical Building, Security building & Time Office at Main unit, Block – A and Block – D at 61 Park unit, Electrical Building at RBD unit of GRSE Ltd., Kolkata enclosed herewith as Annexure - I. In case of

any doubt, instructions of the Officer in-charge (YM Dept.) is to be followed. The total job has been divided in 02 packages which has been detailed in the List of BOQ attached with this NIT.

**ARTICLE 8 अनुच्छेद-8: GURANTEE & WARRANTEE गारंटी एवं वारंटी:**

The work executed including equipment or components thereof are to be guaranteed for satisfactory performance for the period of **12 (Twelve) Calendar months** from the date mentioned in the Completion Certificate, unless otherwise agreed in writing by the Engineer; this will be deemed as the 'Guarantee Period'/ 'Defect Liability Period'.

**ARTICLE 9 अनुच्छेद-9: PRICE मूल्य:**

Price quoted will be firm and fixed for the entire contract period till completion of work awarded during valid contract period. GST is to be indicated separately and will be paid extra. No escalation whatsoever will be considered under any circumstances within the stipulated period of contract.

**ARTICLE 10 अनुच्छेद-10: ESCALATION मूल्य वृद्धि: Not Applicable**

**ARTICLE 11 अनुच्छेद-11: UNREASONABLE QUOTES अतर्कसंगत भाव:**

- i. In case the price of L-1 Bidder is found to quote unreasonably low and/or express desires to withdraw from the tender then such bid will be cancelled and EMD will be forfeited and punitive action will be taken in line with the provision as per GRSE Vendor policy.
- ii. However, in case the L1 Bidder agrees to take-up the job with such unreasonable low quote, lower by 30% or more than estimate and also if the difference in price between L1 & L2 is 30% or more, then the quoted price to be analyzed w.r.t. tender requirement and if the L1 bidder fails to justify their quoted rate, the obtained L1 quote will be rejected and the tender will be cancelled. During re-tendering, such bidder with low quote will not be allowed for participation.
- iii. If justification is acceptable to GRSE, then Bidder have to submit a declaration to execute the job till satisfactory completion of entire contract. In case of breach of contract, GRSE shall reserve the right to impose Tender Holiday for a period of at least 01 year.

**ARTICLE 12 अनुच्छेद-12: OFFER VALIDITY प्रस्ताव की वैधता:**

Offer should be valid for 90 days from the date of opening of Part-I bid i.e. Techno-commercial bid. Under exceptional circumstances GRSE may request for extension of price validity, beyond 90 days against valid reason.

**ARTICLE 13 अनुच्छेद-13: CONDITIONAL OFFER सशर्त प्रस्ताव:**

Conditional offers w.r.t. SOTR will not be accepted. However, in case of bidder wish to deviate on any / same commercial terms & conditions, then separate deviation statement has to be uploaded along with Part-I bid. However, GRSE reserves the right to accept / reject the deviations / bid with deviations after giving reasonable opportunity to the Bidder.

**ARTICLE 14 अनुच्छेद-14: DETERMINATION OF L1 एल-1 का चयन:**

L1 vendor will be determined **Package wise (Package-01 & Package-02):**

1. Package 01 :

- A. Retrofitting, Strengthening, Repairing and Shifting of surface drainage of A-Block Building at GRSE 61 Park Unit
- B. Repair and Rehabilitation of 100 year old 3-storied unreinforcement Brick masonry building at Block-D GRSE, 61-Park Unit

2. Package 02 :

- A. Retrofitting, Strengthening and Repairing of Electrical Building at GRSE, Main Unit
- B. Retrofitting, Strengthening and Repairing of Electrical Building at GRSE, RBD Unit
- C. Retrofitting, Strengthening and Repairing of Security Building at GRSE, Main Unit
- D. Retrofitting, Strengthening and Repairing of Time Office at GRSE, Main Unit

However, in case of loading the price due to any commercial deviation against the tender, GRSE will evaluate L1 bidder offline, considering all applicable loading factors decided during TNC / CNC proceedings on quoted price.

**ARTICLE 15 अनुच्छेद-15: BOQ बी ओ क्यू:**

BOQ as part of SOTR given in the tender is tentative. The detail BOQ (package wise) is attached with the NIT. The quantity mentioned in BOQ may vary according to actual requirement of job during the period of rate contract. The selected Bidder has to execute the required quantity at same rate and terms & Condition up to variation ( $\pm$ ) 25% for individual items and the total Purchase Order Value may be increased by 10% for completion of the job. Similarly, quantity of individual items as well as total order value may be reduced also as per requirement of the job. Necessary amendment of PO will be issued accordingly.

**ARTICLE 16 अनुच्छेद-16: OPENING OF BIDS निविदा खुलना:**

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

**ARTICLE 17 अनुच्छेद-17: MICRO & SMALL ENTERPRISES सूक्ष्म एवं छोटे उद्योग:**

Purchase preference may be given to eligible Micro and Small Enterprise Firms as per MSME Act provided, the tendered job is listed in their MSE document. (Detail at Clause 2 of STAC)

All Micro & small enterprises are required to declare their Udyog Aadhar Memorandum (UAM) number on the Central Public Procurement Portal (CPPP). Documentary evidence of the said declaration is to be submitted along with the techno-commercial bid failing which benefits being accorded to Micro & Small Enterprises will not be extended.

**ARTICLE 18 अनुच्छेद-18: AWARDING JOBS TO MULTIPLE BIDDER बहुल बिडर के लिए ठेका कार्य:**

GRSE is interested to execute the job through TWO bidders and asked for package wise L1 bidder. In case a single bidder comes to L1 position for both the packages, the higher value package will be loaded to L1 bidder and other package will be loaded to L2 / L3 bidders subject to acceptance of established rate for the particular package with L1 bidder.

In case of non-acceptance of the same total job will be awarded to L1 bidder only.

**ARTICLE 19 अनुच्छेद-19: ELIGIBILITY CRITERIA पात्रता के मापदंड:**

**Technical Eligibility Criteria तकनीकी मापदंड –**

- (a) Bidder shall have experience of successful execution of Similar Nature/Type of civil work i.e. Civil work involving Retrofitting/ Structural Repair work using construction chemicals for Industrial structure / Buildings during last five (05) years. Supporting documents meeting above Technical eligibility Criteria to be submitted along with the bid. Also full contract details like name, address, telephone numbers of the person under whose direct jurisdiction the work was executed etc. to prove that they had carried out such work successfully in any PSU / Corporate house / Big Industry / Reputed organization.
- (b) Bidder has to fulfill experience in successful completion of aforesaid similar jobs of value not less than **Rs.190 Lakhs for one job** OR not less than **Rs.120 Lakhs**

**each for two jobs** OR not less than **Rs.100 Lakhs each for three jobs** in last five (05) years ending on 30.04.2022. The bidder must submit necessary proof duly endorsed along with the bid.

- (c) It may kindly be noted that the past performance of responded bidder who already worked at GRSE will be considered for evaluating the bid. If it is found that his past performance at GRSE is not good, his bid will be rejected.
- (d) Format for Technical Eligibility Criteria has been attached to this document as per format attached at Annexure - 4. The format has to be filled up and to be uploaded with the Techno-commercial Bid.
- (e) The bidder should give self-certification (as per Annexure-6) that they have neither been Blacklisted nor have received any tender holiday from any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations during last 03 (three) years ending on 30.04.2022. The bidder has to submit self-certification for the same along with the techno-commercial offer. GRSE reserves the right to independently verify the same. In case violation of declaration is detected at any stage of tender process and during currency of contract, the order will be terminated.

Note: a) If any bidder has been black listed by any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations, then the bidder is not eligible to participate in this tender. If any discrepancy is detected at any stage of the tender, then the offer submitted by the bidder / contract awarded to the bidder will be cancelled and EMD/SD shall be forfeited and appropriate action will be taken in accordance with the vendor policy of GRSE.

b) If any bidder has been 'Put on Tender Holiday' by any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations, then this fact must be clearly stated and it may not necessarily be a cause for disqualifying them.

c) In case of non-submission of the self-certification document as per format at Annexure-6, the bidder will be treated as non-responsive and their offer will be rejected

**Note:** Non-submission of documents along with Techno-commercial bid as mentioned in above clauses, the offer will not be considered for further tender

processing /bidders not having requisite experience as established by their uploaded technical bids, may not be called for TNC.

**Financial Eligibility Criteria वित्तीय मापदंड –**

- (i) Bidder should have average minimum Annual Turnover of **Rs.110 Lakhs** during last 03 (three) financial years ending on 31.03.2021.
- (ii) Audited Balance Sheet and Profit & Loss Account of the company for last 03 (three) financial years need to be submitted in support of above requirement.
- (iii) Bidder shall provide Solvency Certificate for a sum of not less than **Rs.1.0 Crore** from Banker (any scheduled bank other than co-operative bank) required. Solvency certificate should not be 06 (Six) months old w.r.t. this tender opening date.
- (iv) Format for Financial Eligibility Criteria in this regard has been attached to this document as per format attached at Annexure - 5. The format has to be filled up and to be uploaded with the Techno-commercial Bid.

**ARTICLE 20 अनुच्छेद-20: INSTRUCTION TO THE BIDDERS बिडर हेतु अनुदेश:**

1. Before submitting a bid, bidders are expected to examine the Bid Documents carefully, if they desire, may visit the work front, fully inform themselves of existing conditions and limitations including all items described in the Bid Documents. NO consideration will be granted for any alleged misunderstanding or the materials to be furnished, work to be performed or actual considerations to complete all work and comply with conditions specified in the Bid Document.
2. Any qualified deficiency, errors, discrepancies, omissions, ambiguities or conflicts in the Bid Documents, or there be any doubts as to the meaning of a provision or requirement, the same shall immediately brought to notice of GRSE Tendering Dept. in writing not less than 07 days prior to bid closing date.
3. It is understood that in receiving this bid, GRSE assumes no obligation to enter into a contract for the WORK covered by this bid request. GRSE reserves the right to reject any and all unqualified proposals or waive irregularities therein. GRSE reserves the right to evaluate each and every proposal and accept the whole or any part of the tender and the Tenderer shall be bound to perform the same at the rates quoted.
4. GRSE also reserves the right to reject any and all bids and accept the bid, which in its opinion, appears to be most advantageous to GRSE. Receipt and review of this Bid Request constitutes an agreement of confidentiality between GRSE and each of the contracting Firms preparing its Bid. GRSE reserves the right to change the form of this

request to Bids, or make clarifications thereto, within a reasonable time before date of submission of Bids.

5. General Contractors assume all safety related responsibilities for the site and will furnish and maintain its own safety program for itself and its subcontractors. Contractor are bound to comply with all applicable Environmental, Health & Safety rules, regulations, policies, procedures and guidelines when performing work in the facility or site.
6. **Independent External Monitors (IEM): (Applicable for the Contract value more than Rs. 2.0 Cr.)**

Either or both of the following Independent External Monitors will have the power to access the entire project document and examine any complaints received by him. In case of any change in IEMs, it will be informed accordingly.

The communication details of the IEMs are as follows:-

(A) Shri Bam Bahadur Singh,  
Height-7; Flat No.1802, Uniworld City,  
New Town, Rajarhat,  
Kolkata-700160  
Email: bbsinghbeml@gmail.com

(B) Shri Pidatala Sridhar, IRS (Retd.)  
Flat 2C, Kanaka Lakshmi Apartments 3-6-467 & 468  
Street Number-6,  
Himayatnagar, Hyderabad-500029  
Email: sridharpidatala@gmail.com

7. **Integrity Pact (समग्रताअनुबंध): (Applicable for the Contract value more than Rs. 2.0 Cr.)**

The Integrity pact essentially envisages the agreement between prospective vendors /Bidders & buyers committing the person/officials of both the parties not to exercise any corrupt influence on any aspects of the contract. Only those vendors/bidders who enter into such an integrity pact with the buyer would be competent to participate in the bid. The format of integrity Pact is enclosed with tender documents. Refer Annexure-4. The "Integrity pact on Govt. issued bond paper of Rs. 100 duly filled as per enclosed format to be submitted in original. Bidders to ensure that every page of IP is ink signed with company seal/stamp in every pages. [Please refer guideline for IP in STAC (Sl.-1) in GRSE website/ Annexure-2 of the tender]

8. Job is to be carried out as per SOTR and instruction of the Engineer in-charge.
9. Any Drawings or technical information attached / provided with this NIT is the Intellectual Property of the Company and will be governed by the specific Acts

applicable thereto.

10. Post submission of Tender, such drawings and technical information are to be physically returned. Also all soft copies are to be destroyed and a self-certification to be submitted during CNC, failing which the processing of bid will not be taken further.
11. Contractors are responsible to clean up the area of work w.r.t all sort of debris generated on daily basis. If they fail to do so GRSE reserves the right to perform the cleaning activity and charge the contractor with penalty of up to 25%.
12. Bidder has to declare, in what capacity he is participating in the tender viz PSU, Limited Co, Pvt Ltd. Co., Sole Proprietorship Organization, Partnership firm, Joint Venture, etc. Supporting documents (scanned copy) confirming such status to be uploaded as attachment to Part I bid.
13. A Bidder is allowed to submit only one Bid under any capacity / status.
14. Difficulty in submitting the bid:

Any query/difficulty in understanding of SOR or other technical Terms may be got clarified from Mr. Tanay Saha, SM (YM) e-mail/[Saha.Tanay@grse.co.in](mailto:Saha.Tanay@grse.co.in) prior to submission of offer.

For difficulty in submitting / uploading of e-tender or for any system help contact person is Mr. Saraswata Palit , SR MGR (E-PROCUREMENT); e-mail/[Palit.Saraswata@grse.co.in](mailto:Palit.Saraswata@grse.co.in) and / or GRSE Service Provider M/s. NIC personnel may be contacted at Land line no: 033 24893902

15. E-mail Address for communication संचार हेतु ई. मेल पता: Vendor to provide e-mail address to enable faster communication.

**ARTICLE 21 अनुच्छेद-21: e-BID INSTRUCTION ई बिड के अनुदेश:**

- a) To participate in the e-Bid submission for GRSE, it is mandatory for the bidders to get their firms registered with E-Procurement portal <http://www.grse.in/etender> or <http://eprocuregrse.co.in>
- b) It is mandatory for all bidders to have class – III Digital Signature Certificate (DSC) in the name of the person who will digitally sign the bid from any of licensed Certifying Agency (CA). Bidders can see the list of licensed CAs from the link <http://www.cca.gov.in>.
- c) Bidders can view / download Part-1 (Techno-Commercial) bid documents along with all attachments. They need to fill up the downloaded documents as per instruction and upload the same during bid submission. Non-acceptance of any techno-commercial criteria is discouraged. However, if there is any, it is to be commented accordingly and also stated in the separate deviation format.

- d) Bidders need to fill up Part II (Price) bid online in HTML price bid format by inserting unit price only. No other attachment to the price bid will be reckoned.
- e) In case the bidder does not quote his rate for any item(s), it will be presumed that the bidder has included the cost of that/those item(s) in the rates of other items and the rate for such item(s) shall be considered as **Zero** and the tender will be evaluated by the Employer accordingly and the work executed by the successful bidder accordingly.
- f) Bids can be submitted only during validity of registration of bidder with GRSE e- Procurement portal.
- g) The amendments / clarifications to the bid document, if any, will be posted on E- Procurement portal / GRSE web site only.
- h) It will be the bidder's responsibility to check the status of their Bid on-line regularly after the opening of bid till award of work.
- i) **AMENDMENT OF TENDER DOCUMENT**

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

**ARTICLE 22 अनुच्छेद-22: BID REJECTION CRITERIA** बिड अस्वीकृति के मापदंड:

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

- a) Bidder's failure to furnish sufficient or complete details for evaluation of the bids within the given period which may range in between two to three weeks depending

on the deficiencies noticed in the drawings / technical data which shall not however conflict with validity period.

- b) Incomplete / misleading / ambiguous bid in the considered opinion of the Technical Negotiation Committee (TNC) of GRSE.
- c) Bid with technical requirements and/or terms not acceptable to GRSE / Customers / External agency nominated, as applicable.
- d) Bid received without qualification documents, where required as per the tender.
- e) Bid not meeting the pre-qualification parameters / criteria stipulated in the Tender Enquiry.
- f) Bid with validity expiry date shorter than that specified in the Tender Enquiry.
- g) Bid Security Declaration form not submitted as per format enclosed within time.
- h) Bidders who have not agreed for the fixed price till the validity of the tender or have quoted the variable price.
- i) Bidder not agreeing for furnishing of the required Security Deposit (SD).
- j) Bidder not submitting Integrity Pact as per requirement of the tender.
- k) Bidder submitted false/incorrect documents etc.

**ARTICLE 23 अनुच्छेद-23: POST AWARD APLICABLE CLAUSES** ठेका जारी करने के पश्चात लागू उपधारा:

**i. Security Deposit प्रतिभूति जमा -**

Non-interest-bearing security deposit of 3% of total order value is to be deposited in the manner elaborated at clause 5 of STAC. In case of non-submission of SD as per schedule, penal interest will be charged for delayed period of submission of SD beyond 15 days at the prevailing SBI cash credit rate on the amount of SD to be submitted.

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

The contractor will put up Work done for certification to Engineer along with all inspection report / measurement sheet signed by Engineer-in-charge of GRSE. Work done certificate is to include whether work has been completed as per delivery schedule or the delay in days/weeks occurred in completion of work. Any recovery towards usage of GRSE resources is also to be indicated.

**iii. Bill Submission बिल प्रस्तुति:**

On obtaining WDC, bills are to be raised (considering the checklist for Bill Submission as per attached format at Annexure-11) by contractor monthly progressive basis. Bills are to be submitted along with supporting document (Work Done Certificate) at the Bill Receiving Counters located at the respective unit of Company. Bill is to be submitted (in 03 copies) in sealed envelope super-scribing on the envelope the Purchase Order No., Vendor code, Bill / Invoice No., Name of person /employee to whom bill is addressed, for processing. The Name of the Bill certifying authority to be mentioned on sealed envelope. Against this particular case AGM (YM) is the Bill Certifying Authority.

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

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

- a. The contractor shall submit the R/A bills in triplicate along with all necessary / required supporting documents, measurement sheet etc.
- b. 97% (Ninety Seven percent) of the value of actual work done will be paid progressively against R/A bill at a frequency of once every month during construction. The amount paid at every month shall be evaluated on the basis of actual completed works done during the previous month, against the BOQ item and unit Rates, on certification of quantum and quality of work by Engineer / Engineer's Representative.
- c. Balance 3% (Three percent) bill amount will either be retained from each bill as Performance Guarantee and the same will be released after expiry of guarantee period of the of the Hand Standing duly certified by the bill approving authority or be paid against submission of performance Bank guarantee.
- d. Payment will be made on actual certification basis through ECS mode.
- e. No advance payment will be made in any circumstances.

**v. Liquidated Damages (निर्णीत हर्जाना)**

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

**vi. Risk Purchase (जोखिम खरीद):**

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

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

- vii. **Time of completion shall always be considered as essence of the contract / PO (कार्य समापन अवधी निविदा का मूलतत्व)** and cannot be extended for any reason whatsoever. However in an unlikely situation beyond the control of the contractor, application for extension of due time shall be submitted by the Contractor, 1 Month in advance with proper justification duly endorsed by Engineer In-charge / YM (FOJ) dept. of GRSE.

**ARTICLE 24 अनुच्छेद-24: SUBMISSION OF BID** बिड की पेशी:

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

**ARTICLE 25 अनुच्छेद-25: PRE BID MEETING** बोली-पूर्व बैठक:

A pre-bid meeting will be held on **08.07.2022** at the YM Dept., GRSE Main Unit, on 11:00 AM to discuss the detail Scope of Work of the Tender/ clarifying the queries of the bidders, if any.

Vendors interested to participate in pre-bid meeting should inform Mr. Tanay Saha, SM (YM), email: [Saha.Tanay@grse.co.in](mailto:Saha.Tanay@grse.co.in) and for other query Mr. Prakash Golder, Manager (YM), email: [Golder.Prakash@grse.co.in](mailto:Golder.Prakash@grse.co.in) may be contacted, 48 hours before schedule.

**Anukaran J. Kandir  
SR. MGR. (Contract)  
Garden Reach Shipbuilders & Engineers Ltd.  
GRSE Ltd., Main Unit,  
43/46, Garden Reach Road, Kolkata-700024  
(Cont. no. 9163361808)**

<b>GRSE Ltd.</b>	<b>Repairing and Retrofitting of Security Building , Time office Building &amp; Electrical Building of Main unit , Block A and block D building of 61 Park Unit and electrical building of RBD</b>	SOTR No. TS/CIVIL/22-23/01 Sheet : 1 of 18
Yard No. : NA Group : YM		Rev : 0
Inspection : GRSE YM Dept . Dept.	Prepared by : T. Saha ,Sr. Mgr ( YM )	Checked by : Sanat Datta AGM(YM&CM)

**STATEMENT OF TECHNICAL REQUIREMENTS (SOTR) AND SPECIAL TERMS & CONDITIONS (STC)**

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## 1 GENERAL

This set of technical requirements provides a general guideline for carrying out the job under the subject tender. Scope of work required to be carried out for successful implementation of the project mainly comprises of repairing, retrofitting, strengthening of existing old buildings (as given below). Primary aim of the tendered job is to address the structural distress/damages/corrosion etc. as per structural audit report and also to improve durability of the buildings:

### A. Main Unit

- i) Electrical Building
- ii) Security Building
- iii) Time Office

### B. 61 Park

- i) Block A
- ii) Block D

### C. RBD Unit

- i) Electrical Building

## 2 DESCRIPTION OF VARIOUS BUILDING AT DIFFERENT UNITS:

### A. MAIN UNIT

#### i) **ELECTRICAL BUILDING**

Electrical Building is located on the western side of the Main Unit. It is a G+1 storied building with total plinth area 11134.92 sq.m (including ground and first floor each 5567.46 sq.m) is about 70 years old and made of steel structural framework and peripheral load bearing brick wall with RCC slab.

#### ii) **SECURITY BUILDING**

Security Building is located on the south-western side of the Main Unit. It is a G+3 storied building with total plinth area 3239.40 sq.m (ground-938.67 First and second floor each 869.9 sq.m and third floor 560.92 sq.m) and approx. 35 years old building.

#### iii) **TIME OFFICE**

Time office Building is located on the southern side of the Main Unit. It is a G+1 storied building with total plinth area 1029.1 sq.m (including ground and first floor each 514.55 sq.m) and approx. 100 years old building.

### B. 61-PARK

#### i) **BLOCK-A**

Block-A is located on the North side of the 61-Park unit. It is a G+2 storied building with total plinth area 2299.62 sq.m (ground 813.3 sq.m First and second floor each 743.17 sq.m and approx. 100 years old building.

ii) **BLOCK-D**

Block-D is located on the south-west side of the 61-Park unit. It is a G+3 storied building with total plinth area 2168.15 sq.m ((including G+2 each 722.72 sq.m) and approx. 100 years old building.

C. **RBD UNIT**

i) **ELECTRICAL BUILDING**

Electrical Building is located on the middle of the RBD Unit. It is a G+1 storied building with total plinth area 896.66 sq.m (ground floor 510 sq.m and first floor 386.66 sq.m) is about 100 years old.

3 **SCOPE OF WORK**

Broad scope of the work under this as under:

- a) Structural repairing, retrofitting, strengthening of aforesaid Building as per the recommendation of structural audit report as attached at **Appendix-3**. Also Bill of Quantities (BOQ) for the work to be carried is enclosed at **Appendix-2** and necessary drawings are also attached at **Appendix - 1**
- b) Scope includes repair of concrete cracks & damages, grouting, concrete jacketing, micro concreting, anti-corrosive painting, corrosive protection to reinforcement etc. and allied jobs as per the attached reports.
- c) All equipment, tools and machinery including consumables necessary for the repairing, grouting, construction, fabrication & erection are to be arranged by the contractor.
- d) Cutting and trimming of vegetation/bushes/trees as necessary before undertaking repair work.
- e) Structural Repairing & Retrofitting being a specialised job, the jobs are to be carried out by the Senior/Experienced Applicator (Level –III or equivalent applicator) and also applicator should be certifying by the any construction chemical manufacturer( As mentioned in CL No 24 of SOTR) of specialized structural strengthening, Repair and Rehabilitation work. Credential of the proposed applicator to be submitted along with technical bid and after due approval by GRSE
- f) Other allied & related works for satisfactory completion of work

#### **4 GENERAL REQUIREMENTS**

- 4.1 The Contractor shall carry out detail survey on site for finalisation of extent of work before execution. All work shall be carried out as per specification provided in BOQ/ Reports/Relevant BIS / Relevant drawings and as directed by the engineer.
- 4.2 The Contractor will be responsible for overall site management and coordination of site activities within the boundary of the works, as necessary to ensure the adequacy, stability and safety of the works and of persons at the site. The contractor shall require planning his work in coordination with on-going production activities of GRSE, other contractors working in and around the workplace.
- 4.3 The contractor shall take all necessary work permit from concern Dept. of GRSE (i.e. Safety, Fire etc.) as applicable in line with prevailing rule in GRSE.
- 4.4 The contractor shall take all precautionary measures in consultation with GRSE Safety Dept. while working at height during dismantling, construction painting etc.
- 4.5 The submission to and comment/acceptance by the Engineer of such programmes, methods, drawings, designs, QAP shall not relieve the Contractor of any of his duties or responsibilities under the Contract.

#### **5 DOCUMENTS, DRAWINGS AND CALCULATIONS**

The Contractor shall submit documents, drawings and calculations as necessary to the Engineer or his representative for approval:

- (i) Detailed construction / working drawings along with necessary design /details as necessary during execution for approval.
- (ii) Detailed activity schedule of work.
- (iii) Quality Assurance Plan.
- (iv) Progress Reports.
- (v) All relevant Test Reports / Test Certificates as per Indian Standard or PWD Schedule as applicable.

## **6 SUPERVISION, MONITORING & CERTIFICATION OF JOBS**

- 6.1 The work shall be executed in coordination/consultation with GRSE-Reps i.e. Nominated Representative of Civil Maintenance Dept. of respective Unit, who will overall in-charge of the job at their respective Unit.

## **7 DETAIL JOB REQUIREMENT & QUANTITY**

- 7.1 BOQ with item quantities for construction as part of SOTR are given in the tender is tentative. The quantities set out in the BOQ of the tender shall be treated as estimated quantities of the work and shall not be deemed as actual or correct quantities of the work to be executed by the Contractor.
- 7.2 The Contractor shall execute required quantity for successful completion of project work at the same contractual rates and terms & conditions for any extent of variation in stipulated BOQ quantities.
- 7.3 List of BOQ Items considered under the scope of this tender is provided at **Appendix-2** for reference.
- 7.4 All bidders shall quote against all the items of BOQs, otherwise, their bid would be considered as Incomplete Bid and shall be liable for rejection.

## **8 CONTRACTOR TO SUPPLY ALL MATERIALS**

- 8.1 Unless stipulated otherwise in the Contract, all materials including consumables required for the work shall be procured and supplied by the Contractor with the approval of the Engineer or his Representative and subject to subsequent testing as may be required by the Engineer or his Representative.
- 8.2 The Contractor shall comply with the relevant IS Codes

## **9 DEPLOYMENT OF RESOURCES**

- 9.1 Contractor shall provide adequate number of qualified / experienced workmen, with experienced Project Engineer with a technical qualification not less than BE(Civil)/ Diploma( Civil ) with 3 year Experience and 3 Nos Supervisor (i.e. 01 Supervisor for each Unit) having Technical qualification not less than diploma in Civil Engg. and also sufficient construction equipment, materials, tools & tackles etc. for achieving the schedule target

as per approved work schedule. The contractor shall ensure timely deployment of all above resources at site to ensure contractual completion.

- 9.2 The contractor shall ensure deployment of adequate and proper skilled /semi-skilled workforce as per work requirements and optimum supporting unskilled workforce as necessary.
- 9.3 Repairing and Retrofitting of Buildings are to be executed by engaging authorised level –3 or equivalent applicator and also [applicator should be certifying by the any construction chemical manufacturer of specialized structural strengthening, Repair and Rehabilitation work](#) as approved by Engineer in charge of any approved make as mentioned in BOQ.

## **10 TESTING OF MATERIALS AND ACCEPTANCE & QAP**

- 10.1 Test samples shall be prepared and submitted for approval of the Engineer or his Representative, whenever required to do so, all at the Contractor's cost.
- 10.2 The Contractor shall submit valid correlated test certificates conforming to applicable standards for materials/items before incorporation in the permanent works.
- 10.3 Testing of materials shall be conducted as per the approved Quality Assurance Plan or relevant Indian Standards.
- 10.4 Unless stipulated otherwise in the Contract, the cost of any test required by the Engineer or his representative in respect of materials and workmanship deployed on the work shall be borne by the Contractor.

## **11 INSPECTION BY THE ENGINEER**

- 11.1 For Site supervision, the Contractor shall give adequate notice to the Engineer .
- 11.2 The Contractor shall provide the Engineer with proper free and safe access to the Contractor's works and stores or his sub-contractor's works and stores at all times and shall provide reasonable facilities to enable him to undertake his inspection.
- 11.3 The Contractor shall make all necessary arrangements to enable stage inspections by the Engineer.
- 11.4 The Engineer or his Representative shall have power to certify or disapprove/reject works or materials, in accordance with the Conditions of Contract.

## **12 QUALITY & WORKMANSHIP**

Quality and workmanship of all items/materials and work shall conform to BOQ/ Reports /Technical Specification / relevant Indian Standards. The Contractor shall be responsible for any loss/damage during the course of work to machinery, equipment, fittings, wiring, piping, and systems etc. caused by his workman (or his sub contractor's) and the Contractors shall make good such damage free of cost.

### **13 MATERIALS / WORK NOT ACCEPTABLE TO ENGINEER**

The Engineer or his Representative shall have the power to inspect any material and work at any time and to order at any time – (a) for removal from the Site of any material which in his opinion is not in accordance with the Contract or the instruction of the Engineer or his Representative, (b) for the substitution by the proper and suitable materials, or (c) the removal and proper re-execution of any work, which in respect of material and workmanship is not in accordance with the Contract or the instructions of the Engineer. The Contractor shall comply with such order at his own expense and within the time specified in the order. If the Contractor fails to comply, the Engineer shall be at liberty to dispose any such materials and re-do any work in the manner convenient to the Engineer by engaging any outside agency at the risk and expense of the Contractor and after giving him a prior written notice of 7 (seven) days. The Contractor shall extend his full assistance as required by the Engineer during inspection.

### **14 CONTRACTOR TO COMMENCE WORK**

The Contractor shall mobilize and commence the work on site on the Commencement Date stated in the LOA/PO. The Contractor shall then proceed with the work with due expedition and without delay, except as may be expressly sanctioned or ordered by the Engineer or his Representative, time being deemed the essence of the Contract on the part of the Contractor.

### **15 SUPERVISION BY THE CONTRACTOR**

- 15.1 The Contractor shall engage experienced and qualified Engineers having Technical qualification BE(Civil)/ Diploma in Civil Engineering with minimum 3 years experienced for Project engineer and for Supervisor **not less than diploma in Civil Engg.** at site in day-to-day charge of the work and he should be authorized to receive instructions from the Engineer/GRSE. He shall receive orders given by the Engineer from time to time and shall act on them promptly. Bio-data along with due clearance of supervisor to be obtained from GRSE
- 15.2 The Contractor shall provide necessary and adequate supervision during the execution of the works and as long thereafter as the Engineer or his Representative shall consider necessary during the Defect Liability Period.

15.3 The Contractor or his competent and authorised agent or representative shall be constantly at site during working hours. The Contractor shall inform the Engineer or his Representative in writing about such representative / agent of him at site. Replacement of any of the authorised agent of the Contractor during the currency of Contract shall only be with prior written approval of the GRSE/ Engineer.

15.4 The Contractor and his authorised agent or representative shall be readily available to meet with the GRSE and/or Engineer and/or Engineer's Representative and instructions given to him by the Engineer or his Representative in writing shall be binding upon the Contractor.

## **16 SETTING OUT**

16.1 The Contractor shall be responsible for the true and proper fitting / alignment of the Works in relation to reference points / lines / levels as applicable. The checking of any alignment or level by the Engineer or his Representative shall not in any way relieve the Contractor of his responsibility for the correctness thereof and he shall fully provide, protect and preserve the setting out of the works.

16.2 The Contractor shall promptly notify the Engineer of any discrepancy in the setting out of the works.

## **17 CARE OF THE WORK & CLEAN JOB PLANNING**

From the commencement of the works till issue of the Completion Certificate hereof; the Contractor shall take full responsibility for the care thereof. Save for the excepted risks, any damage, loss or injury to the work or any part thereof shall be made good by the Contractor at his own cost as per instruction and to the satisfaction of the Engineer, failing which the Engineer or his Representative may cause the same to be made good by any other agency and the expenses incurred and certified by the Engineer / Owner, shall be recovered from the Contractor.

## **18 PROTECTION OF THE EXISTING STRUCTURES / MACHINES**

18.1 The Contractor will be responsible for the protection of all existing structures, machines, cranes etc. adjacent to and within the Works from any type of damage.

18.2 Before the commencement of work, the Contractor to take necessary precautions and measures to safeguard the existing structures/machines/

materials and protect them from possible damages. For that the Contractor will arrange adequate safety nets, ropes etc. without any extra cost.

- 18.3 If any damage occur by the Contractor or contractor's workmen, will be recovered suitably from the Contractor.

## **19 EXISTING ROADS & SHOP FLOOR TO BE KEPT CLEAN**

- 19.1 Existing roads& Shop floor used by vehicles/machineries of the Contractor or any of his subcontractors for supplies of materials or plant shall be kept clean and clear of all dirt, mud or any other materials dropped by the said vehicles or their tyres. The Contractor shall provide and maintain all equipment as may be necessary to keep the Owner's roads clean as required by this Clause.
- 19.2 Any damage caused by the Contractor to the surface of the roads or car parks shall be made good at his own cost.

## **20 CONTROL OF POLLUTION / HEALTH HAZARDS / SAFETY**

- 20.1 The Contractor shall take care to comply with current legislation on the Control of Pollution.
- 20.2 Being a health hazard issue of asbestos sheet, the Contractor shall take utmost care to avoid breaking of existing asbestos sheet while carrying out dismantling, removal or handling at site. In no case, the contractor is allowed to drop the asbestos sheet from height.

## **21 SITE-IN CHARGE / LOG BOOK / HINDRANCE & OTHER RECORDS / DESIGNATED SAFETY PERSONAL**

- a) One fully responsible and experienced / Qualified Site-in-charge and designated safety personal have to be posted at the site during progress of work.
- b) Details of technical personnel deployed for the job.
- c) Log book for re-work/ modification.
- d) Site instruction book.
- e) Details of materials brought by vendor along with copies of challan.
- f) Proper record of hindrances is to be maintained by the contractor for the purpose of timely removal of the hindrance and is to be put up for approval by the Engineer on weekly basis.

## **22 CLEARANCE OF SITE**

- 22.1 During construction work, the Contractor shall remove all unsalvageable dismantled materials, excavated surplus earth etc. as directed by the Engineer from the site progressively so that construction activities remain unaffected. These materials shall be disposed off to a suitable area (to be

arranged by the Contractor in conformity with statutory rules) outside the GRSE premises.

- 22.2 On receiving the Completion Certificate, the Contractor shall remove any remaining Contractor's Equipment, surplus material, scrap materials, wreckage, debris, rubbish and temporary works from the Site or as directed by the Engineer.
- 22.3 The site shall be handed over in a tidy and workmanship manner.
- 22.4 If all these items have not been removed within 28 (twenty eight) days, after the issue of Completion Certificate the Owner may sell or otherwise dispose of any remaining items. The Owner shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.

## 23 GRSE SCOPE OF SUPPLY

### 23.1. Electricity

GRSE will provide electrical power supply at one point / suitable location near the construction area / site at free of cost for execution of job. The Contractor shall make necessary arrangements for further distribution, as required, from that point on a temporary basis all at his own cost. The contractor shall ensure consumption of power in very economical way to save energy.

### 23.2 Water

Construction water will be provided at free of cost from existing source of GRSE. The Contractor shall arrange necessary water distribution pipe line and pump as required all at his own cost.

## 24 PREFERRED MAKE / BRAND

Item	Make / Brand
Construction Chemicals	Krishna Conchem/ Fosroc/ Sika / MYK/ Dr Fixit /MC
Cement	Lafarge / ACC / Ultratech/ RAMCO
Reinforcement Steel	TISCO / SAIL / JINDAL / ESSAR / RINL/ SRMB
Zn-al alloy metal sheet	Tata Bluescope

Structural Steel	SAIL / TATA / JINDAL / ESSAR / RINL/ SRMB
Others	As per approval by Engineer/GRSE

## 25 SPECIAL TERMS AND CONDITIONS OF CONTRACT

### 25.1 Technical Eligibility Criteria

The bidder shall have experience of successful execution of Similar Nature/Type of civil work i.e. Civil work involving Retrofitting / Structural Repair work using construction chemicals for Industrial structure / Buildings during last five (05) years. Supporting documents meeting above Technical Eligibility Criteria to be submitted along with the bid. Also full contact details like name, address, telephone numbers of the person under whose direct jurisdiction the work was executed etc. to prove that they had carried out such works successfully in any PSU / Corporate house / Big Industry/ Reputed organization .

25.2 Bidder has to fulfill experience in successful completion of aforesaid similar jobs of value not less than Rs. 190 lakhs for one job OR not less than Rs. 120 lakhs each for two jobs OR not less than Rs. 100 lakhs each for three jobs in last five (05) years.

25.3 One of the experience reference has to be submitted from reputed organization other than GRSE.

## 26 PRE-BID MEETING

26.1 Pre-bid Meeting will be held on 7<sup>th</sup> day from the date of publication of tender.

26.2 All the vendors who want to respond the tender are requested to attend the Pre-bid meeting without fail. Prospective Tenderers shall submit their queries, if any in connection with the Tender, in writing by email at the earliest to enable GRSE to clarify the same. The last date of submitting the queries is 2 days prior to the pre-bid meeting. Copies of the Employer's response will be displayed on GRSE website [www.grse.nic.in](http://www.grse.nic.in) including a description of the enquiry but without identifying its source.

26.3 Site visit is must. Vendors must visit the site before quoting the rate with a written intimation to the YM Dept. During the visit the vendor must thoroughly survey / inspect the site condition / structure for proper assessment of work requirement. If at any stage it is found that vendor has

not visited the site / Visited site without proper intimation to YM dept./ or not attended Pre Bid Meeting., Technical Bid will not be evaluated and the bid of that particular vendor will be treated as cancelled

## **27 SUBMISSION OF TECHNICAL DOCUMENTS ALONG WITH THE BID**

The Tenderer shall submit following documents along with their bids;

- i) Work plan
- ii) Bar chart / schedule of work
- iii) Necessary supporting documents for experience as per technical eligibility criteria
- iv) Credential of the proposed applicator for specialized repair work from construction chemical company as per list mentioned in CI No 24.
- v) QAP

## **28 SITE CONDITION**

- 28.1 The Tenderer shall consider that accommodation for personnel of the Contractor and their sub-contractors is not allowed to reside at GRSE premises.
- 28.2 All the work sites are within the compound of a running engineering works and the Contractor's works will have to be carried out in a manner so as to avoid interruption in the normal shipyard production activities. Accordingly, the Contractor is to co-operate with GRSE to minimize disruption to shipbuilding activities and is to preserve and maintain GRSE vehicular access route for the transport of ship blocks etc.
- 28.3 To minimise the interference to production activity of GRSE at the above Block A & Block D at 61 park Unit, Time Office, Security Building & Electrical Building at Main Unit and Electrical Building at RBD Unit , the Contractor has to work progressively i.e. area wise suitably and the work front will be handed over progressively .The same has already been taken into consideration in the duration of work i.e. 5 months .
- 28.4 Tenderer must carefully consider his method of construction and safety of the works in relation to environmental factors and the ground conditions.
- 28.5 Before quoting, the Tenderer in his own interest shall carry out site visits to know the site conditions / situations 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.

## **29 SITE CONSULTATIONS**

The work shall be carried out in consultation with the Civil Engineering Department of respective unit of GRSE headed by Addl. General Manager (YM & CM) with other officers as nominated by him.

## **30 AWARD OF WORK**

GRSE is interested to execute the job through multiple bidders

## **31 WORK DONE CERTIFICATE (W.D.C.)**

The contractor will put up Work done for certification to Engineer along with all inspection report / measurement sheet signed by Quality Assurance Authority/Engineer. Work done certificate is to include whether work has been completed as per delivery schedule or the delay in days/weeks occurred in completion of work. Any recovery towards usage of GRSE resources is also to be indicated.

## **32 COMPLETION PERIOD**

This work being urgent in nature is required to be completed on fast track. Completion period of the entire scope of work under this tender shall be:-

Total 5 (Five) calendar months from the date of issue of Letter of Award (LOA) The Tenderer, however, is required to assess the period and confirm the completion period. The tenderer must submit a network schedule explaining planning and program in detail for execution of the project. Please note Time is the essence of this contract.

During execution of work the contractor shall ensure the timely mobilization of their equipment, adequate manpower and materials based on agreed work schedule / milestones. The contractor shall adopt necessary measures to avoid any delay in work progress. In case of interim delay, the contractor shall augment more manpower and also work during extended working hours / holidays to catch up the delay.

### **33 GUARANTEE PERIOD / DEFECT LIABILITY PERIOD (DLP)**

The work executed including equipment or components thereof are to be guaranteed for satisfactory performance for the period of 12 (Twelve) Calendar months from the date mentioned in the Completion Certificate, unless otherwise agreed in writing by the Engineer; this will be deemed as the 'Guarantee Period'/'Defect Liability Period'.

### **34 TERMS OF BILL PAYMENT**

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

### **35 SUBMISSION OF RA BILLS BY THE CONTRACTOR**

The Contractor shall submit to the Engineer, RA bills (in triplicate) for the payments, for the amount due along with all relevant documents each signed by the Contractor's authorised representative, such interim measurement and valuation of the works, material entry documents, etc. signed by the Engineer's Representative, certificates of inspection/ trials, as may be applicable to respective stages. Works completed shall be jointly measured by the Contractor & Engineer /Engineer's representative.

### **36 OWNERSHIP OF SCRAP**

All scrap items (salvageable) i.e. Metal and wooden scrap materials (loose) if obtained/generated by demolishing of any structure / during excavation shall remain the property of the Owner/GRSE and shall be shifted and stacked at place earmarked by owner within GRSE premises and other GRSE units (within a lead of 5KM) However, steel embedded within concrete shall be disposed of from site by the Contractor along-with excess earth, debris and rubbish etc.

Dismantled asbestos sheets, translucent sheets and north light glazing will be property of contractor. The contractor while quoting his rate should consider salvage value of these into account.

### **37 COMPLETION CERTIFICATE**

37.1 When the whole of the work has been completed to the satisfaction of the Engineer and has passed any final test as per the Specification/Contract/ instruction of the Engineer, the Contractor shall, within 21 (twenty one) days

of submission of his application to the Engineer, be entitled to receive a "Certificate for Completion of work.

- 37.2 If any part of the total work having been completed to the satisfaction of the Engineer, be taken over and / or used by the Owner, the Contractor shall on application be entitled to partial completion certificate indicating the portion of the work covered by it, so that the Contractor's liability during Defect Liability Period of the Contract, if any, shall commence from the date mentioned in such certificate so far as the completed portion of the work is concerned.

### **38 VARIATION AND ITS VALUATION**

The Engineer shall have the power to order the Contractor in writing to make any variation of the quantity, quality or form of the works or any part thereof that may, in his opinion, be necessary and the Contractor upon receipt of such an order shall act as follows:

- a) Increase or decrease the quantity of any work included in the Contract.
- b) Omit any work included in the Contract.
- c) Change the character or quality of kind of any work included in the Contract.
- d) Execute extra and additional work of any kind necessary for completion of the works.

### **39 QUANTITIES IN PRICE SCHEDULE ARE ESTIMATED**

BOQ as part of SOTR given in the tender is tentative. The detail BOQ is attached with the SOTR. It may vary according to actual requirement of job during the tenure of the work/contract. The Contractor shall assess actual quantity of work based on drawings and requirements of Owner (to be decided by Engineer) and shall submit updated BOQ incorporating quantity variation to the Engineer for review/approval. No variation (upward/downward) in quantity (without any limit) and value shall no way vitiate or invalidate the Contract or be treated as revocation of the Contract, but the value (if any) of all such variations

evaluated shall be taken into account and the Contract Price shall be varied accordingly without any change in agreed rates of Price Schedule/BOQ on account of variation. Due to above quantity variation in individual items, the total Purchase Order Value may vary for successful completion of the job. Necessary amendment of PO will be issued accordingly. Limit on Cost of Variation. Value of contract may increase up to a maximum of 10% of the total Contract Value. This is to be a cumulative total for all variations. The Contractor shall give reasonable prior notice to the Engineer of any variation which may cause this cumulative limit to be exceeded

#### **40 PAYMENT FOR EXTRA, ADDITIONAL , OMITTED, SUBSTITUTED WORK**

- a) The Contractor shall not be entitled to any claim of additional work unless they have been carried out under the written orders of the Engineer.
- b) The Engineer shall solely determine the amount (if any) to be added to or deducted from the sum named in the Tender in respect of any additional work done or work omitted by his order subject to approval of the Owner.
- c) All additional or substituted work done or work omitted by order of the Engineer shall be valued on the basis of the rates and prices set out in the Contract, if in the opinion of the Engineer, the same shall be applicable. If the Contract does not contain any rates or prices directly applicable to the extra, additional or substituted work, the Engineer shall solely determine suitable rates in the manner deemed by him as fair and reasonable, and his decision shall be final, binding and conclusive.
- d) Rates of item of work that is not included in the schedule of items/BOQ shall be fixed as per the following procedure:
  - i) Where the extra works are of similar character and of equivalent value and / or executed under similar conditions as to any item of work appearing at Schedule of Quantities, then the rates for such extra items shall be equal to the rates of such items.
  - ii) If the extra works are of similar character but differing in particulars then the rate of such item or items shall be derived from Schedule of Quantities, as modified to take fair account of the differences in particulars.
  - iii) Where items of similar character are not contained in the Schedule of Quantities and none of the foregoing methods are applicable, rates shall be based on the norms of PWD/CPWD for labour, materials content

respectively. However, in both cases local prevailing market rate for labour & material shall be adopted.

- iv) Where rates for extra item of works cannot be established by rate analysis as per the above, then rate for such item shall be estimated and fixed by the Engineer based on the market rates and assessment for labour, materials and other factors involved thereon.

\*\*\*\*\**END*\*\*\*\*\*

## List of BOQ items

### **PACKAGE 01:**

#### **A. Retroffiting, Strengthening, Repairing and Shifting of surface drainage of A-Block Building at GRSE 61 Park Unit**

SI No	Description of Item	Qty	Unit	Rate	Amount (Rs.)
1	Stripping off worn out plaster and raking out joints of walls, celings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	650	Sqm		
2	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.	100	Cum		
3	Uprooting and removing plants from the surface of walls parapet etc and making good damages. (Repairing of damages to be paid separately). (c) Large plant of girth of exposed stem above 150 mm. but not exceeding 225 mm. lift upto 6 mtr.	10	Nos		
4	Labour for lowering and stacking after dismantling in parts R.S. joists, channels, angles, tees, plates etc.complete as directed.	50.00	Qntl		
5	Dismantling carefully wooden walling, flooring of ceiling and stacking dismantled materials as directed.	350.00	Sqm		
6	Cutting chase up to 125 x 150 mm. and subsequent mending of damages, in brick wall	200	M		
7	Cutting chase up to 125 x 150 mm. and subsequent mending of damage, in concrete wall	200	M		
8	Bailing or pumping out water from foundation trenches.	100.00	Cum		
9	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. a) In ground floor including roof.	70.00	Cum		
10	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	90.00	Cum		
11	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) 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, bailing out water as required complete. (a) Depth of excavation not exceeding 1,500 mm.	180.00	Cum		

12	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (a) With earth obtained from excavation of foundation.	90.00	Cum		
13	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy.	400.00	Nos		
14	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete	120.00	Kg		
15	Patching of damaged concrete surface with polymer concrete (25 mm nominal thick) and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	200	Sqm		
16	Stitching crack in brick wall by carefully cutting out face brick 125 mm. deep into the wall, cleaning the gap and filling up the same with precast cement concrete block carefully set in cement mortar (1:3) including mending good damages and finishing the surface to match with adjacent areas complete as per direction. (ii) With reinforced cement concrete blocks (1:1½:3) with stone chips and nominal reinforcement. (b) Block size 250 x 125 x 150 mm.	250	Nos		
17	Epoxy bonding of new concrete to old concrete	300	Sqm		
18	Applying epoxy mortar ( 10 mm nominal thick) over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete	30	Sqm		
19	Repairing crack in by cement grouting (1 : 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface. (Cement-69 Kg/100 m)	500.00	Mtr		
20	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel, tabular sections conforming to IS: 226, IS: 808 & SP (6)-1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-in-charge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1969 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges, labour insurance charges etc.	50.00	MT		
21	Supplying. Preparing and placement of ready mix none shrink cementious micro concrete having no metallic aggregate or chlorides for repairing and jacketing of damaged R.C.C. members. The micro concrete should	5	Cum		

	<p>achieve a compressive strength not Less than 10 MPa after 24 hours. 40 Mpa after 7 days  And 50Mpa after 28 days at 300C.It should have Unrestrained expansion in between 1 to 4%. Flexural Strength shall not be less than 5MPa after 28 days. Micro concrete should have a co-efficient of thermal expansion similar to that of the host Concrete.</p>				
22	<p>Providing and fixing of false ceiling with powder coated exposed G.I. grid suspension system  a) False Ceiling (with 4mm thick Pearl Designer Fibre Cement Board and E-Grid T-2430/1510).</p>	350.00	Sqm		
23	<p>Taking out existing partition/ceiling of particle board, masonite board, ply board, soft board etc. of any thickness and refixing same in new position with necessary clamps making holes in walls, floor, roof and mending damages if any.[concrete plaster will be paid separately]</p>	220.00	Sqm		
24	<p>Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (b) 15 mm thick plaster</p>	650.00	Sqm		
25	<p>Anti-Carbonation coating for protection of Concrete Surface from Carbonation by with two coats Of Single component solvent free, cold applied, pure acrylic polymer, (Anti carbonation coating) breathable, elastomeric on a water based priming coat (Total 3 (three) coats Including priming coats) having 50% elongation property, UV Resistant capacity, non-toxic with asthenic view, eco Friendly and low VOC (Volatile Organic Compound) material. The product compliance with the requirement as laid out in as per ASTM D822. Recommended DFT ((Dry Film thickness): 100 -110 microns per coat. Top coat may have with 5" - 10% dilution if required and anti carb primer with 100 % dilution with approx. DFT: 20 Micron. Total system OFT should not be less than 230 micron for getting better anti-carbonation property on concrete surface as Per direction of Engineer -In-charge.</p>	650	Sqm		
26	<p>Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (b) 10 mm thick plaster</p>	60.00	Sqm		

27	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in water tank etc. (No Departmental Cement is required)	650	Sqm		
28	Cement concrete (1:1.5:3) with graded stone chips 5.6 mm size with hexagonal square mesh wire netting, I.R.C. fabric mesh or X.P. M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X. P. M. & cost of all handling and scaffolding complete as per direction of Engineer-in -charge. c) 37.5mm thick	450	Sqm		
29	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor (I) With application slurry (A) Deep Colour & White	700	Sqm		
30	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)	650.00	Sqm		
31	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface In Ground Floor: (a) One Coat	2400.00	Sqm		
32	Protective and Decorative Acrylic exterior emulsion paint of approved quality In Ground floor (Two Coat) c) Super Protective 100% Acrylic Emulsion.	2400.00	Sqm		
33	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface (a) One Coat i) Water based interior grade Acrylic Primer	450.00	Sqm		
34	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling (Two coats) ii) Luxury Quality	450.00	Sqm		
35	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc.	100.00	Sqm		
36	Painting with best quality synthetic enamel paint of approved make and brand (a) On timber or plastered surface : One Coat With other than hi-gloss of approved quality-(iv) Two coats (with any shade except white)	100.00	Sqm		

37	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	680.00	Sqm		
38	Painting with best quality synthetic enamel paint of approved make and brand (a) On Steel or other metal surface : One Coat With other than hi-gloss of approved quality-(iv) Two coats (with any shade except white)	680.00	Sqm		
39	Making one set of scaffolding only for repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in charge. a) 3.90 metre height	1	LS		
40	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity)	180.00	Cum		
41	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	160.00	Sqm		
42	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (6mm nominal size) excluding shuttering and reinforcement,if any, in gound floor as per relevant IS codes.	20.00	Cum		
43	Brick work with 1st class bricks in cement mortar (1:4) (a) In foundation and plinth	30.00	Cum		
44	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar (ii) With 1:4 cement mortar (a) 20 mm thick plaster	300.00	Sqm		
45	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc.	300.00	Sqm		
46	Hire and labour charges for shuttering with centering and necessary staging up to 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing 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	85.00	Sqm		
47	Reinforcement 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. SAIL/TATA/RINL	1.50	MT		

48	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete	200	Sqm		
49	Cleaning the exposed reinforcement preferably up to full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement	100	Sqm		
50	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes.	8.00	Cum		
51	Supplying and laying true to line and level Anti-Skid, Full Body, Homogeneous & Granular finish Vitrified Tiles a) In Ground Floor: Sizes-300 mm x300mm x10 mm with breaking strength >1200 N	90.00	Sqm		
52	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. A) UPVC Pipes: (iii) 160 mm. Dia.	100.00	Mtr		
53	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. a) Plain Tee (iii) 160 mm. Dia.	20.00	Nos		
54	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. c) Bend 87.5 degree (iii) 160 mm. Dia.	20.00	Nos		
55	Supplying, fitting ,fixing with cement jointing (3:1) salt glazed stoneware pipe including excavation of earth up to 1.5 m depth i) 300mm	40.00	Mtr		

56	Providing and laying reinforced cement concrete pipe NP3 with spigot socket for culverts on first class bedding of granular material in single row including fixing with cement mortar 1:2 as per Technical Specification Clause 1106 for Rural Roads of MORD. (F) 600 mm dia.	50.00	Mtr		
57	Supplying, fitting and fixing in position reinforced cement polymer concrete manhole /gully pit cover with matching frame. As per I.S-12592(M.D) (viii) 5 MT load bearing capacity gully pit cover with frame and hinge arrangement for opening of size Cover: 470 mm X 420 mm X 80 mm Frame: 590 mm X 550 mm X 170 mm opening: 380mm x 305mm Weight: 100 kg (approx.)	13.00	Nos		
58	Supplying, fitting and fixing in position reinforced cement polymer concrete manhole /gully pit cover with matching frame. As per I.S-12592(M.D) (v) 12 MT load bearing capacity round manhole cover provided with two lifter hooks fitted with matching frame of size Cover: 550 mm X 75 mm Frame: 650mm X 135 mm opening: 475mm Weight: 100 kg (approx.)	4.00	Nos		
59	Providing and laying bituminous macadam with Mobile Hot Mix Plant (Light Duty) using approved crushed aggregates of specified grading as per Table 500.4 premixed with bituminous binder, transported to site laid over a previously prepared surface at specified laying temperature by means of approved and suitable arrangements to the required grade, level and alignment and rolled with suitable power roller for break down, inter-mediate and finished rolling as per specification to achieve the desired compaction including cost and carriage of stone materials and bitumen, hire charges of machinery and equipment, cost of fuel and lubricants and wages of operational staff, quality control complete as per Specifications for Road & Bridge Works of MoRT&H (5th Revision). B. For Grading II 19 mm nominal size, 50-75 mm thick.)	4.00	Cum		
60	Providing and applying tack coat with Cationic Bitumen Emulsion of approved grade conforming to IS:8887-1978 on the prepared surface cleaned with Hydraulic broom, moistening the surface including cost and carriage of emulsion, hire charges of machinery and labour, cost of fuel and lubricants all complete as per Clause 503 of Specifications for Road & Bridge Works of MoRT&H (5th Revision). (i) On Bituminous Surface (Using Bitumen Emulsion at the rate of 0.20 to 0.30 kg per sqm.)	60.00	Sqm		

61	Supplying & Laying a single layer, 25 mm thick Mastic Asphalt Wearing Course in road pavement/bridge decks using approved coarse aggregate, fine aggregate, filler material and bitumen, including cost and carriage of all ingredients, cost of heating aggregates and binder, mixing in specified proportions conforming to approved Job Mix Formula, laying the mix, compacting, sealing the construction joints and surface finishing conforming to specifications, construction procedure and quality control vide Section 515 of Specifications of Road & Bridge Works (4th Revision) published by IRC, including the hire charge of all tool, plants & machineries, pay of operators, cost of fuel and lubricants and all other incidental charges and quality control complete.	60.00	Sqm		
62	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and booming requisite type of screening / binding materials to fill up the interstices of coarse aggregate, watering including lighting, guarding, barricading and making necessary earthen bunch of one metre width on each side and preparing the bed by necessary cutting or filling, including cost of all materials and hire and labour charges of all men and machinery and compacting to the required density, as per Clause 404 of Specifications for Road & Bridge Works of MoRT&H (5th Revision). (iii) Grading-2 Aggregate (53 mm to 22.4 mm) Using Stone Screening Type B (11.2 mm) By Manual	6.00	Cum		
63	Providing and applying primer coat with Cationic Bitumen Emulsion of approved grade conforming to IS: 8887-1978 and requisite quantity on prepared surface of granular base including cleaning of road surface and spraying primer using Mechanical means including cost and carriage of bitumen emulsion and all other incidental costs of work complete as per Clause 502 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).( for WBM/WMM Surface)(with Primer @0.7-1.0 kg/sqm)	60.00	Sqm		
64	Providing and laying Premixed Seal Coat (Type B) with approved quality sand/grit @ 0.6 m <sup>3</sup> / 100 m <sup>2</sup> and bitumen binder on thoroughly cleaned black top surface coated with tack coat, including heating and mixing cleaned sand/grit (100 % passing through 2.36 mm sieve and retained on 180 micron sieve) uniformly with bitumen binder, laying and spreading the mix at an uniform rate using suitable means, brushing the surface, if necessary, to ensure uniformity, followed by rolling with power roller including the cost and carriage of binder and aggregates, cost of heating the binder and aggregates and all other incidental charges, cost of fuel and lubricants, including hire charges of machineries, tools & plants required for construction and quality control complete as per Clause 511 of Specifications for Road & Bridge Works of MoRT&H (5th Revision). II By Manual Means With Hot Bitumen Binder (@ 6.80 kg / 10 sqm.)	60.00	Sqm		

65	Supplying, fitting and fixing shower of approved brand and make. (iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Sum thing Special of ESSCO or similar brand).	5	EA		
66	Supplying, fitting and fixing bib cock or stop cock. i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sum thing Special of ESSCO or similar brand).	20	EA		
67	Supplying & laying 3mm thick pre-fabricated elastomeric water proofing membrane conforming to EN 12311-1 & ASTM D 5147, manufactured with atactic poly propylene (APP) modified premium grade asphalt, specially reinforced with non-woven polyester core with polyester reinforcement @ 160 gms per sqm & both faces covered with thermo-fusible polyethylene film /Mineral on top face over a coat of primer @ 0.40 lit/sqm of manufacturer's specification on smooth, clean dry surface prepared wherever required. Lap joint shall be provided of 75 mm in longitudinal & 100 mm in transverse direction and fused using LPG/ Propane torch employing extra care ensuring full bondage, complete removal of entrapped air and sealing edges into grooves in appropriate manner as per direction of Engineer -in-charge all complete including materials, labour and applicable taxes.	70	Sqm		
68	Charge towards drilling of holes by drilling machine of 30MM dia at 3M C/C apart up to a depth of 250 mm.	50	EA		
69	Insertion of 22 mm dia pipe by hammering up to a depth of 6M.	50	EA		
70	Charge for grouting of soil by pressure grouting of cement slurry. Soil grouting with cement and fine silica preferably white sand admixed with Sika Mint 170 PL4 @ 0.2 % by weight of cement at a pressure of approx. 1.5 to 4 kg/Sqm. Cm	430	Per Bag		
71	Sealing of holes	50	EA		

**B. REPAIR AND RAHABILITATION OF 100 YEAR OLD 3-STORIED  
UNREINFORCEMENT BRICK MASONRY BUILDING AT BLOCK-D GRSE, 61-  
PARK UNIT**

Sub-Package:		FOUNDATION STRENGTHENING WORK	10			
Sub package No.	Item No.	Item Description	Unit	Qty	Rate (Per Unit)	Amount (Rs)
10	10	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) 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, bailing out water as required complete. Depth of excavation not exceeding 1,500 mm.	Cum	50.00		
10	20	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (a) With earth obtained from excavation of foundation.	Cum	40.00		
10	30	Cutting chase upto 125 x 150 mm. and subsequent mending of damages. (a) in brick wall [Cement-3.6 Kg/Mtr]	Mtr	150.00		
10	40	Cutting chase up to 125 x 150 mm. and subsequent mending of damage, in concrete wall	Mtr	150.00		
10	50	Cement concrete with graded stone ballast (40 mm size excluding shuttering) In Foundation (A) [Pakur Variety] in 1:3:6 proportion.	Cum	2.00		
10	60	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes.	Cum	5.00		
10	70	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works	Sqm	90.00		
10	80	Reinforcement 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.	MT	1.00		

10	90	Brick soling with picked jhama bricks including preparation of bed as necessary with brick joints properly filled in and packed with powdered earth and including necessary cushion of similar material below the soling (and in between layers when more than one layer is used) completes as per direction. (a) Single brick flat soling (thickness 75 mm.)	Sqm	75.00		
10	100	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes.	Cum	8.00		
10	110	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per technical specification including subsequent cutting / removal and sealing of the hole as necessary of nipples after completion of grouting with cement / epoxy. And sealing of cracks / porous concrete by injection process through nipples/grouting complete as per technical specification. [ cement mortar (1:1) Grouting ]	Nos	250.00		

<b>Sub-Package:</b>	<b>PLINTH PROTECTION WORK</b>	<b>20</b>
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Sub package No.	Item No.	Item Description	Unit	Qty	Rate (Per Unit)	Amount (Rs)
20	10	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (i) With 1:6 cement mortar (b) 20 mm thick plaster	Sqm	95		
20	20	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc.	Sqm	95		
20	30	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in water tank etc. (No Departmental Cement is required)	Sqm	800		
20	40	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. a) In ground floor	Cum	5		

20	50	Anti-termite treatment to the outside of foundations with chemical emulsion by admixing chloropyrofos emulsifiable concentrates (1%concentration) with water by weight including cutting shallow channel by excavating soil along and close to the wall face ensuring uniform dispersal of the chemical emulsion to a depth of 300mm. from the ground level by rodding with 12mm. dia. M.S. rod 150mm.interval in the channel. 1.75 litres of chemical emulsion per metre length shall be used and a balance quantity of 0.5 litres of the chemical emulsion per running metre shall then be used to treat the back fill earth by directing the spray of the imulsion towards the wall surface. The entire work is to be carried out as per specification laid down in para 4.3.1.1 of code IS-6313 (Part-III) 1981.	Mtr	160		
20	60	Stripping off worn out plaster and raking out joints of walls, celings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	Sqm	90		
20	70	Plaster (to wall, floor, ceiling etc.) with composite mortar of sand, lime and cement including round off or chamfering corners as directed and raking out joints and roughening of concrete surface including throating, nosing and drip course where necessary(Ground floor). With (1:1:6) composite mortar with 1 cement : 1 lime paste/putty : 6 sand (a) 20 mm. thick plaster	Sqm	100		
20	80	Brick work with 1st class bricks in cement mortar (1:6) (a) In foundation and plinth	Cum	5		
20	90	Charge towards drilling of holes by drilling machine of 30MM dia at 3M C/C apart up to a depth of 250 mm.	EA	30		
20	100	Insertion of 22 mm dia pipe by hammering up to a depth of 6M.	EA	30		
20	110	Charge for grouting of soil by pressure grouting of cement slurry. Soil grouting with cement and fine silica preferably white sand admixed with Sika Mint 170 PL4 @ 0.2 % by weight of cement at a pressure of approx. 1.5 to 4 kg/Sqm. Cm	Per Bag	250		
20	120	Sealing of holes	EA	30		

<b>Sub-Package:</b>		<b>WALL STRENGTHENING WORK</b>				<b>30</b>
<b>Sub package No</b>	<b>Item No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (Per Unit)</b>	

30	10	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per technical specification including subsequent cutting / removal and sealing of the hole as necessary of nipples after completion of grouting with cement / epoxy. And sealing of cracks / porous concrete by injection process through nipples/grouting complete as per technical specification. [ cement mortar (1:1) Grouting ]	Nos	300		
30	20	Uprooting and removing plants from the surface of walls parapet etc. and making good damages. (Repairing of damages to be paid separately). (c) Large plant of girth of exposed stem above 150 mm. but not exceeding 225 mm. lift up to 6 mtr.	Nos	10		
30	30	Making one set of scaffolding only for repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in charge.	LS	1		
30	40	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete	Kg	70		
30	50	Stitching crack in brick wall by carefully cutting out face brick 125 mm. deep into the wall, cleaning the gap and filling up the same with precast cement concrete block carefully set in cement mortar (1:3) including mending good damages and finishing the surface to match with adjacent areas complete as per direction. (ii) With reinforced cement concrete blocks (1:1½:3) with stone chips and nominal reinforcement. (b) Block size 250 x 125 x 150 mm.	Nos	250		
30	60	Patching of damaged concrete surface with polymer concrete (25 mm nominal thick) and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	Sqm	120		
30	70	Applying epoxy mortar ( 10 mm nominal thick) over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete	Sqm	80		
30	80	Epoxy bonding of new concrete to old concrete	Sqm	200		
30	90	Repairing crack in by cement grouting (1 : 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface. (Cement-69 Kg/100 m)	Mtr	500		
30	100	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete	Sqm	100		
30	110	Cleaning the exposed reinforcement preferably up to full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement	Sqm	200		

30	120	Supplying, preparing and placement of ready mix non shrink Cementitious micro concrete having no metallic aggregate or chlorides for repairing and Jacketing of damaged R.C.C. members. The micro Concrete should achieve a compressive strength not Less than 10 MP after 24 hours. 40 Mpa after 7 days and 50Mpa after 28 days at 300C.It should have Unrestrained expansion in between 1 to 4%. Flexural Strength shall not be less than 5MPaafter 28 days. Micro concrete should have a co-efficient of thermal expansion similar to that of the host Concrete.	Cum	1		
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<b>Sub-Package:</b>	<b>STRENGTHENING OF DOOR/WINDOW OPENING WOK</b>	<b>40</b>
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Sub package No.	Item No.	Item Description	Unit	Qty	Rate (Per Unit)	Amount (Rs)
40	10	Stripping off worn out plaster and raking out joints of walls, ceilings etc. up to any height and in any floor including removing rubbish within a lead of 75m as directed.	Sqm	750		
40	20	Anti-Carbonation coating for protection of Concrete Surface from Carbonation by with two coats of Single component solvent free, cold applied, pure acrylic polymer, (Anticarbo notion coating) breathable, elastomeric on a water based priming coot (Total 3 (three)coats Including priming coats) having50% elongation Property, Resistant capacity, non-toxic with asthenic view, eco-friendly and low VOC (Volatile Organic Compound) material. The product compliance with the requirement as laid out in as per ASTM D822. Recommended DFT ((Dry Film thickness): 100 -110 microns per coot. Top coat may have with 5" - 10% dilution if required and anti carb primer with 100 % dilution with approx. DFT: 20 Micron. Total system OFT should not be less than 230 micron for getting better anticarbonation property on concrete surface as Per direction of Engineer -In.charge.	Sqm	500		
40	30	Dismantling carefully wooden walling, flooring of ceiling and stacking dismantled materials as directed.	Sqm	100		
40	40	Plaster (to wall, floor, ceiling etc.) with composite mortar of sand, lime and cement including round off or chamfering corners as directed and raking out joints and roughening of concrete surface including throating, nosing and drip course where necessary(Ground floor). With (1:1:6) composite mortar with 1 cement : 1 lime paste/putty : 6 sand (a) 20 mm. thick plaster	Sqm	750		
40	50	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)	Sqm	750		

						50
<b>Sub-Package:</b>	<b>STRENGTHENING OF GROUND &amp; 1ST FLOOR ROOF AND GROUND,1ST &amp; 2ND FLOOR</b>					

Sub package No.	Item No.	Item Description	Unit	Qty	Rate (Per Unit)	Amount (Rs)
50	10	Dismantling of Rain water pipe and salvaging the materials within 5 Km. lead as per direction of EIC.	Mtr	50		
50	20	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. A) UPVC Pipes: (iii) 160 mm. Dia.	Mtr	50		
50	30	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. a) Plain Tee (iii) 160 mm. Dia.	Nos	60		
50	40	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. c) Bend 87.5 degree (iii) 160 mm. Dia.	Nos	35		
50	50	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel, tabular sections conforming to IS: 226, IS: 808 & SP (6)- 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-in-charge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1969 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental charges such as electricity charges, labour insurance charges etc.	MT	55		
50	60	Cement concrete (1:1.5:3) with graded stone chips 5.6 mm size with hexagonal square mesh wire netting, I.R.C. fabric mesh or X.P. M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X. P. M. & cost of all handling and scaffolding complete as per direction of Engineer-in - charge.	Sqm	350.00		

50	70	Labour for propping up overhead members as a precautionary measure against falling as directed with necessary planks, Eucalyptus props, packing nails, wire ropes, iron wires etc. including hire charges of all materials fitting, fixing dismantling and removing the props etc. and all ancillary works in this connection complete.	Cum	500		
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<b>Sub-Package:</b>	<b>VARANDAH REPAIRING WORK</b>	<b>60</b>
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Sub package No	Item No.	Item Description	Unit	Qty	Rate (Per Unit)	Total Amount (Rs)
60	10	Supplying ready mixed concrete of M 25 Grade with well graded stone chips of 20 mm nominal size containing designed quantity of cement per Cu.m of wet concrete produced in computerised batching plant under controlled condition using approved super plastisizer, designing concrete mix following I.S. 10262 and I.S. 456, transporting the mix with agitation in transit mixer to work site depositing the mix on a platform erected for the purpose at required levels of concreting and then placing the mix in its final location of form work compacting and curing the same complete as per specification & direction of the Engineer-in-charge including computerised batching plant transit mixer with all accessories vibrators etc. inclusive of all other incidental charges in this connection complete but excluding cost of hire charge of platform and its supporting staging which would be paid through separate item. [cement to be supplied by the Manufacturer/ supplier] at 2nd Floor roof.	Cum	27		
60	20	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works	Sqm	195		
60	30	Reinforcement 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.SAIL/TATA/RINL	MT	4		
60	40	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.	Cum	50		
60	50	Labour for lowering and stacking after dismantling in parts R.S. joists, channels, angles, tees, plates etc.complete as directed.	Qntl	200		

60	60	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	Cum	260		
60	70	Labour for propping up overhead members as a precautionary measure against falling as directed with necessary planks, Eucalyptus props, packing nails, wire ropes, iron wires etc. including hire charges of all materials fitting, fixing dismantling and removing the props etc and all ancillary works in this connection complete.	Cum	800		
<b>Sub-Package:</b>		<b>FLOORING WORK</b>				<b>70</b>
<b>Sub package No</b>	<b>Item No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (Per Unit)</b>	<b>Amount (Rs)</b>
70	10	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91Kg./sqM or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per sqM below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contractor) B) Light Colour	Sqm	900		
70	20	Taking out existing partition/ceiling of particle board, masonite board, ply board, soft board etc. of any thickness and refixing same in new position with necessary clamps making holes in walls, floor, roof and mending damages if any.[concrete plaster will be paid separately]	Sqm	430		
70	30	Providing and fixing of false ceiling with powder coated exposed G.I. grid suspension system (E-Grid T 2430/1510 or equivalent load carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mm c/c ) consisting of Main Runner 3600 mm long, Cross Tee 1200 mm / 600 mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300mm c/c. The Main Runners to be placed @ 1200 mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at a regular interval of 600 mm to form a modular grid of 1200mm X 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600 mm X 600 mm. Grid of module size 600 mm X 600 mm shall be supported by 6 mm dia G.I. wire from purlins / soffit. 4 mm thick High Pressure Steam Cured Non	Sqm	800		

		Asbestos pearl designer Fibre Cement Standard Ceiling Board (Density > 1500 Kg/m <sup>3</sup> ) of size 595 mm X 595 mm, conforming IS 14862 & Type A Category IV of ISO 8336, tested as per AS-1530 part 3 & BS-476 Part 4,5,6,7 & 8, should be placed in the Grid module to form a False Ceiling. All complete as per the drawing & directions of Engineer-in-charge. In ground floor. a) False Ceiling (with 4mm thick Pearl Designer Fibre Cement Board and E-Grid T-2430/1510).				
70	40	Supplying, fitting and fixing bib cock or stop cock. i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Something Special of ESSCO or similar brand).	EA	15		
70	50	Supplying, fitting and fixing shower of approved brand and make. (iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Something Special of ESSCO or similar brand).	EA	5		
70	60	Supplying & laying 3mm thick pre-fabricated elastomeric water proofing membrane conforming to EN 12311-1 & ASTM D 5147, manufactured with atactic poly propylene (APP) modified premium grade asphalt, specially reinforced with non-woven polyester core with polyester reinforcement @ 160 gms per sqm & both faces covered with thermo-fusible polyethylene film /Mineral on top face over a coat of primer @ 0.40 lit/sqm of manufacturer's specification on smooth, clean dry surface prepared wherever required. Lap joint shall be provided of 75 mm in longitudinal & 100 mm in transverse direction and fused using LPG/ Propane torch employing extra care ensuring full bondage, complete removal of entrapped air and sealing edges into grooves in appropriate manner as per direction of Engineer -in-charge all complete including materials, labour and applicable taxes.	Sqm	30		

<b>Sub-Package:</b>		<b>PAINTING WORK</b>				<b>80</b>
<b>Sub package No</b>	<b>Item No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (Per Unit)</b>	<b>Total Amount (Rs)</b>
80	10	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface. Two Coats	Sqm	1950		
80	20	Applying 02 coats Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC.	Sqm	1360		

80	30	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer.	Sqm	1360		
80	40	Removing old paint from blistered painted surface of steel or other metal by chipping including scraping and cleaning and exposing the original surface.	Sqm	1500		
80	50	Priming one coat on timber or wood or plastered surface or steel or other metal surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc.	Sqm	1750		
80	60	2 coat aluminium Painting of approved brand on entire steel structure of existing as well as modified steel structure and new fabricated /erected steel structure (both inside and outside faces) .	Sqm	1750		

**PACKAGE 02:****A. Retrofitting, Strengthening and Repairing of Electrical Building at GRSE, Main Unit**

SI No	Description of Items	Qty	Unit	Rate	Amount (Rs)
1	Stripping off worn out plaster and raking out joints of walls, ceilings etc. up to any height and in any floor including removing rubbish within a lead of 75m as directed.	3500	Sqm		
2	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.	450	Cum		
3	Uprooting and removing plants from the surface of walls parapet etc and making good damages. (Repairing of damages to be paid separately). (c) Large plant of girth of exposed stem above 150 mm. but not exceeding 225 mm. lift upto 6 mtr.	10	Nos		
4	Labour for lowering and stacking after dismantling in parts R.S. joists, channels, angles, tees, plates etc. complete as directed.	4.00	Qntl		
5	Dismantling carefully wooden walling, flooring of ceiling and stacking dismantled materials as directed.	40.00	Sqm		
6	Cutting chase up to 125 x 150 mm. and subsequent mending of damages, in brick wall	250	Mtr		
7	Cutting chase up to 125 x 150 mm. and subsequent mending of damage, in concrete wall	200	Mtr		
8	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. a) In ground floor including roof.	75.00	Cum		
9	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	100.00	Cum		
10	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy.	400.00	Nos		
11	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete	120.00	Kg		
12	Patching of damaged concrete surface with polymer concrete (25 mm nominal thick) and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	300	Sqm		

13	Stitching crack in brick wall by carefully cutting out face brick 125 mm. deep into the wall, cleaning the gap and filling up the same with precast cement concrete block carefully set in cement mortar (1:3) including mending good damages and finishing the surface to match with adjacent areas complete as per direction. (ii) With reinforced cement concrete blocks (1:1½:3) with stone chips and nominal reinforcement. (b) Block size 250 x 125 x 150 mm.	200.00	Nos		
14	Applying epoxy mortar ( 10 mm nominal thick) over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete	30	Sqm		
15	Supplying, Preparing and placement of ready mix none shrink cementitious micro concrete having no metallic aggregate or chlorides for repairing and jacketing of damaged R.C.C. members. The micro concrete should achieve a compressive strength not Less than 10 MPa after 24 hours. 40 Mpa after 7 days And 50Mpa after 28 days at 300C.It should have Unrestrained expansion in between 1 to 4%. Flexural Strength shall not be less than 5MPa after 28 days. Micro concrete should have a co-efficient of thermal expansion similar to that of the host Concrete.	2	Cum		
16	Epoxy bonding of new concrete to old concrete	300	Sqm		
17	Repairing crack in by cement grouting (1 : 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface. (Cement-69 Kg/100 m)	300	Mtr		
18	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel, tabular sections conforming to IS: 226, IS: 808 & SP (6)- 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-in-charge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1969 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges, labour insurance charges etc.	10.00	MT		
19	Hire and labour charges for shuttering with centering and necessary staging up to 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing 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)	70	Sqm		
20	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete	600	Sqm		
21	Providing and fixing of false ceiling with powder coated exposed G.I. grid suspension system a) False Ceiling (with 4mm thick Pearl Designer Fibre Cement Board and E-Grid T-2430/1510).	590.00	Sqm		

22	Taking out existing partition/ceiling of particle board, masonite board, ply board, soft board etc. of any thickness and refixing same in new position with necessary clamps making holes in walls, floor, roof and mending damages if any.[concrete plaster will be paid separately]	115.00	Sqm		
23	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (b) 15 mm thick plaster	1200.00	Sqm		
24	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in water tank etc. (No Departmental Cement is required)	3500	Sq.m		
25	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification]	500.00	Sqm		
26	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course,.[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (b) 10 mm thick plaster	3500	Sqm		
27	Anti-Carbonation coating for protection of Concrete Surface from Carbonation by with two coats Of Single component solvent free, cold applied, pure acrylic polymer, (Anti carbonation coating) breathable, elastomeric on a water based priming coat (Total 3 (three) coats Including priming coats) having 50% elongation property, UV Resistant capacity, non-toxic with asthenic view, eco Friendly and low VOC (Volatile Organic Compound) material. The product compliance with the requirement as laid out in as per ASTM D822. Recommended DFT ((Dry Film thickness): 100 -110 microns per coat. Top coat may have with 5" - 10% dilution if required and anti carb primer with 100 % dilution with approx. DFT: 20 Micron. Total system OFT should not be less than 230 micron for getting better anti-carbonation property on concrete surface as Per direction of Engineer -In.charge.	2000	Sqm		
28	Cement concrete (1:1.5:3) with graded stone chips 5.6 mm size with hexagonal square mesh wire netting, I.R.C. fabric mesh or X.P. M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X. P. M. & cost of all handling and scaffolding complete as per direction of Engineer-in -charge. c) 37.5mm thick	50.00	Sqm		
29	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)	1195.00	Sqm		

30	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface In Ground Floor: (a) One Coat	1195.00	Sqm		
31	Protective and Decorative Acrylic exterior emulsion paint of approved quality In Ground floor (Two Coat) c) Super Protective 100% Acrylic Emulsion.	1195.00	Sqm		
32	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface (a) One Coat i) Water based interior grade Acrylic Primer	3500	Sqm		
33	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling (Two coats) ii) Luxury Quality	3500	Sqm		
34	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	50.00	Sqm		
35	Painting with best quality synthetic enamel paint of approved make and brand (a) On timber or plastered surface : One Coat With other than hi-gloss of approved quality-(iv) Two coats (with any shade except white)	50.00	Sqm		
36	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	1500	Sqm		
37	Painting with best quality synthetic enamel paint of approved make and brand (a) On Steel or other metal surface : One Coat With other than hi-gloss of approved quality-(iv) Two coats (with any shade except white)	1500	Sqm		
38	Making one set of scaffolding only for repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in charge. a) 3.90 metre height	1	LS		
39	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (6mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes.	16.00	Cum		
40	Reinforcement 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.SAIL/TATA/RINL	1.00	MT		
41	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes.	5.00	Cum		

42	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. A) UPVC Pipes: (iii) 160 mm. Dia.	150.00	Mtr		
43	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. a) Plain Tee (iii) 160 mm. Dia.	30.00	Nos		
44	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. c) Bend 87.5 degree (iii) 160 mm. Dia.	30.00	Nos		
45	Supplying, fitting and fixing in position fibre glass panes of approved quality with resin, nail, clip etc. as per IS:12866-1989. (In all floors for internal wall & upto 6 m height for external wall)	50.00	Sqm		
46	Supplying, fitting and fixing single skin color coated trapezoidal profile for wall cladding, Roof shall be made of 0.45mm BMT (Base Metal Thickness) 0.50mm TCT ( Total Coated Thickness excluding paint), G550 ( minimum 550 yield strength), of Zinalume metallic coating (IS15965) with high Solar Reflectance Index (SRI) value for better cooling as per thermatch technology, 1000-1015mm effective cover width with five major corrugation, 28mm high rib spaced at 203mm c/c with subtle square fluting in the pan and the end rib shall have anti-capillary groove & return leg. The steel sheet shall be fastened with 40 micron zinc coated or 25 micron zinc-tin alloy coated, hex- head, self-drilling screw as per IS 3566-2002 class 3 fastener. The base steel shall be coated with zinc-aluminum alloy Zinalume (AZ150)(i.e, 55% Al, 43.4% Zinc, 1.6% Si) minimum of 150g/m2 coating total on both sides, pre-painted with colorbond XRW (exterior roofing, walling) paint system of 35 micron super Durable Polyester paint (SDP) with stable inorganic pigment with no lead contents confirming IS15965. The sheet shall be free from defects and have brand marking of the manufacturer giving product details on the back of the sheet at regular interval confirming genuinity of the material. In Roof, Ridge, valley and Wall with 0.50 mm thick sheet ) ( 60% payment will be released on recive of the Zn-Al alloy sheet inside the GRSE premises along with sbsequent clearance from engaging dept.)	50.00	Sqm		
47	Supplying, fitting and fixing shower of approved brand and make. (iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Something Special of ESSCO or similar brand).	2	EA		

48	Supplying, fitting and fixing bib cock or stop cock. i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Something Special of ESSCO or similar brand).	20	EA		
49	Supplying & laying 3mm thick pre-fabricated plastomeric water proofing membrane conforming to EN 12311-1 & ASTM D 5147, manufactured with atactic poly propylene (APP) modified premium grade asphalt, specially reinforced with non-woven polyester core with polyester reinforcement @160 gms per sqm & both faces covered with thermo-fusible polyethylene film /Mineral on top face over a coat of primer @ 0.40 lit/sqm of manufacturer's specification on smooth, clean dry surface prepared wherever required. Lap joint shall be provided of 75 mm in longitudinal & 100 mm in transverse direction and fused using LPG/ Propane torch employing extra care ensuring full bondage, complete removal of entrapped air and sealing edges into grooves in appropriate manner as per direction of Engineer -in-charge all complete including materials, labour and applicable taxes.	25	Sqm		

## **B. Retroffiting, Strengthening and Repairing of Electrical Building at GRSE, RBD Unit**

Sl No	Description of Items	Qty	Unit	Rate	Amount (Rs.)
1	Stripping off worn out plaster and raking out joints of walls, ceilings etc. up to any height and in any floor including removing rubbish within a lead of 75m as directed.	700	Sqm		
2	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.	7	Cum		
3	Uprooting and removing plants from the surface of walls parapet etc and making good damages. (Repairing of damages to be paid separately). (c) Large plant of girth of exposed stem above 150 mm. but not exceeding 225 mm. lift up to 6 mtr.	5	Nos		
4	Labour for lowering and stacking after dismantling in parts R.S. joists, channels, angles, tees, plate's etc. Complete as directed.	30.00	Qntl		
5	Dismantling carefully wooden walling, flooring of ceiling and stacking dismantled materials as directed.	70.00	Sqm		
6	Cutting chase up to 125 x 150 mm. and subsequent mending of damages, in brick wall	50	Mtr		
7	Cutting chase up to 125 x 150 mm. and subsequent mending of damage, in concrete wall	50	Mtr.		
8	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. a) In ground floor including roof.	30.00	Cum		

9	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	25.00	Cum		
10	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) 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, bailing out water as required complete. (a) Depth of excavation not exceeding 1,500 mm.	110.00	Cum		
11	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (a) With earth obtained from excavation of foundation.	50.00	Cum		
12	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy.	150.00	Nos		
13	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete	45.00	Kg		
14	Patching of damaged concrete surface with polymer concrete (25 mm nominal thick) and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	250	Sqm		
15	Stitching crack in brick wall by carefully cutting out face brick 125 mm. deep into the wall, cleaning the gap and filling up the same with precast cement concrete block carefully set in cement mortar (1:3) including mending good damages and finishing the surface to match with adjacent areas complete as per direction. (ii) With reinforced cement concrete blocks (1:1½:3) with stone chips and nominal reinforcement. (b) Block size 250 x 125 x 150 mm.	150.00	Nos		
16	Epoxy bonding of new concrete to old concrete	250	Sqm		
17	Repairing crack in by cement grouting (1 : 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface. (Cement-69 Kg/100 m)	500.00	Mtr		
18	Applying epoxy mortar ( 10 mm nominal thick) over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete	100	Sqm		
19	Supplying, Preparing and placement of ready mix non shrink cementitious micro concrete having no metallic aggregate or chlorides for repairing and jacketing of damaged R.C.C. members. The micro concrete should achieve a compressive strength not Less than 10 MPa after 24 hours. 40 Mpa after 7 days And 50Mpa after 28 days at 300C.It should have Unrestrained expansion in between 1 to 4%. Flexural Strength shall not be less than 5MPa after 28 days. Micro concrete should have a coefficient of thermal expansion similar to that of the host Concrete.	2	Cum		

20	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel, tabular sections conforming to IS: 226, IS: 808 & SP (6)- 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-in-charge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1969 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental charges such as electricity charges, labour insurance charges etc.	8	MT		
21	Providing and fixing of false ceiling with powder coated exposed G.I. grid suspension system a) False Ceiling (with 4mm thick Pearl Designer Fibre Cement Board and E-Grid T-2430/1510).	50.00	Sqm		
22	Taking out existing partition/ceiling of particle board, masonite board, ply board, soft board etc. of any thickness and refixing same in new position with necessary clamps making holes in walls, floor, roof and mending damages if any.[concrete plaster will be paid separately]	300.00	Sqm		
23	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, (Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (b) 15 mm thick plaster	700.00	Sqm		
24	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (b) 10 mm thick plaster	80.00	Sqm		
25	Anti-Carbonation coating for protection of Concrete Surface from Carbonation by with two coats Of Single component solvent free, cold applied, pure acrylic polymer, (Anti carbonation coating) breathable, elastomeric on a water based priming coat (Total 3 (three) coats Including priming coats) having 50% elongation Property, UV Resistant capacity, non-toxic with asthenic view, eco Friendly and low VOC (Volatile Organic Compound) material. The product compliance with the requirement as laid out in as per ASTM D822. Recommended DFT ((Dry Film thickness): 100 -110 microns per coat. Top coat may have with 5" - 10% dilution if required and anti carb primer with 100 % dilution with approx. DFT: 20 Micron. Total system OFT should not be less than 230 micron for getting better anti-carbonation property on concrete surface as Per direction of Engineer -In.charge.	700	Sqm		
26	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in water tank etc. (No Departmental Cement is required)	700	Sq.m		

27	Cement concrete (1:1.5:3) with graded stone chips 5.6 mm size with hexagonal square mesh wire netting, I.R.C. fabric mesh or X.P. M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X. P. M. & cost of all handling and scaffolding complete as per direction of Engineer-in -charge. c) 37.5mm thick	13.00	Sqm		
28	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)	345.00	Sqm		
29	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification]	150.00	Sqm		
30	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete	100	Sqm		
31	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface In Ground Floor: (a) One Coat	1100.00	Sqm		
32	Protective and Decorative Acrylic exterior emulsion paint of approved quality In Ground floor (Two Coat) c) Super Protective 100% Acrylic Emulsion.	1100.00	Sqm		
33	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface (a) One Coat i) Water based interior grade Acrylic Primer	500.00	Sqm		
34	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling (Two coats) ii) Luxury Quality	500.00	Sqm		
35	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	45.00	Sqm		
36	Painting with best quality synthetic enamel paint of approved make and brand (a) On timber or plastered surface : One Coat With other than hi-gloss of approved quality-(iv) Two coats (with any shade except white)	45.00	Sqm		
37	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	220.00	Sqm		

38	Painting with best quality synthetic enamel paint of approved make and brand (a) On Steel or other metal surface : One Coat With other than hi-gloss of approved quality-(iv) Two coats (with any shade except white)	220.00	Sqm		
39	Making one set of scaffolding only for repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in charge. a) 3.90 metre height	1	LS		
40	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity)	35.00	Cum		
41	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	85.00	Sqm		
42	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (6mm nominal size) excluding shuttering and reinforcement,if any, in gound floor as per relevant IS codes.	8.00	Cum		
43	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor) (a) 25 mm to 30 mm thick	90.00	Sqm		
44	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes.	2.00	Cum		
45	Supplying, fitting and fixing in position fibre glass panes of approved quality with resin, nail, clip etc. as per IS:12866-1989. (In all floors for internal wall & upto 6 m height for external wall)	30.00	Sqm		

46	Supplying , fitting and fixing single skin color coated trapezoidal profile for wall cladding, Roof shall be made of 0.45mm BMT (Base Metal Thickness) 0.50mm TCT ( Total Coated Thickness excluding paint), G550 ( minimum 550 yield strength), of Zinalume metallic coating (IS15965) with high Solar Reflectance Index (SRI) value for better cooling as per thermatch technology, 1000-1015mm effective cover width with five major corrugation, 28mm high rib spaced at 203mm c/c with subtle square fluting in the pan and the end rib shall have anti-capillary groove & return leg. The steel sheet shall be fastened with 40 micron zinc coated or 25 micron zinc-tin alloy coated, hex- head, self-drilling screw as per IS 3566-2002 class 3 fastener. The base steel shall be coated with zinc-aluminum alloy Zinalume (AZ150)(i.e, 55% Al, 43.4% Zinc, 1.6% Si) minimum of 150g/m2 coating total on both sides, pre-painted with colorbond XRW (exterior roofing, walling) paint system of 35 micron super Durable Polyester paint (SDP) with stable inorganic pigment with no lead contents confirming IS15965. The sheet shall be free from defects and have brand marking of the manufacturer giving product details on the back of the sheet at regular interval confirming genuinity of the material. In Roof, Ridge, valley and Wall with 0.50 mm thick sheet ) ( 60% payment will be released on recive of the Zn-Al alloy sheet inside the GRSE premises along with sbsequent clearance from engaging dept.)	35.00	Sqm		
47	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. A) UPVC Pipes: (iii) 160 mm. Dia.	45	Mtr.		
48	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. a) Plain Tee (iii) 160 mm. Dia.	10	EA		
49	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. c) Bend 87.5 degree (iii) 160 mm. Dia.	10	EA		
50	Supplying, fitting and fixing shower of approved brand and make. (iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Something Special of ESSCO or similar brand).	2	EA		
51	Supplying, fitting and fixing bib cock or stop cock. i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Something Special of ESSCO or similar brand).	5	EA		

### **C. Retroffiting, Strengthening and Repairing of Security Building at GRSE, Main Unit**

<b>Sl No</b>	<b>Description of Item</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount (Rs.)</b>
1	Stripping off worn out plaster and raking out joints of walls, ceilings etc. up to any height and in any floor including removing rubbish within a lead of 75m as directed.	1300.00	Sq.m		
2	Cutting chase upto 125 x 150 mm. and subsequent mending of damages, in brick wall	250.00	M		
3	Cutting chase upto 125 x 150 mm. and subsequent mending of damage, in concrete wall	250.00	M		
4	Removal of rubbish,earth etc. from the working site and disposal of the same beyond thecompound, in conformity with the Municipal /Corporation Rules for such disposal, loading intotruck and cleaning the site in all respect as perdirection of Engineer in charge	100.00	Cum		
5	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes	6.00	Cum		
6	Reinforcement 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. SAIL/TATA/RINL	0.20	MT		
7	Making one set of scaffolding only for repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in charge. a) 3.90 metre height	1	LS		
8	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)	200	Sq.m		

9	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete	600.00	Sq.m		
10	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement	200.00	Sq.m		
11	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in water tank etc. (No Departmental Cement is required)	1300.00	Sq.m		
12	Supplying & laying 3mm thick pre-fabricated plastomeric water proofing membrane conforming to EN 12311-1 & ASTM D 5147, manufactured with atactic poly propylene (APP) modified premium grade asphalt, specially reinforced with non-woven polyester core with polyester reinforcement @ 160 gms per sqm & both faces covered with thermo-fusible polyethylene film /MineraL on top face over a coat of primer @ 0.40 lit/sqm of manufacturer's specification on smooth, clean dry surface prepared wherever required. Lap joint shall be provided of 75 mm in longitudinal & 100 mm in transverse direction and fused using LPG/ Propane torch employing extra care ensuring full bondage, complete removal of entrapped air and sealing edges into grooves in appropriate manner as per direction of Engineer -in-charge all complete including materials, labour and applicable taxes.	1200.00	Sqm		
13	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary, With 1:3 cement mortar 20 mm thick plaster	1900.00	Sq.m		
14	Anti-Carbonation coating for protection of Concrete Surface from Carbonation by with two coats Of Single component solvent free, cold applied, pure acrylic polymer, (Anti carbonation coating) breathable, elastomeric on a water based priming coat (Total 3 (three) coats Including priming coats) having 50% elongation property, UV Resistant capacity, non-toxic with asthenic view, eco Friendly and low VOC (Volatile Organic Compound) material. The product compliance with the requirement as	1000	Sq.m		

	laid out in as per ASTM D822. Recommended DFT ((Dry Film thickness): 100 -110 microns per coat. Top coat may have with 5" - 10% dilution if required and anti carb primer with 100 % dilution with approx. DFT: 20 Micron. Total system OFT should not be less than 230 micron for getting better anti-carbonation property on concrete surface as Per direction of Engineer -In.charge.				
15	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC, One Coat	4000.00	Sqm		
16	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothening of surface. Two Coat	7000.00	Sqm		
17	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. Two Coat	4000.00	Sqm		
18	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc	200.00	Sqm		
19	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	150.00	Sqm		
20	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary, On timber or plastered surface, With other than hi-gloss of approved quality,Two coats (with any shade except white)	150.00	Sqm		
21	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary, On steel or other metal surface, With other than hi-gloss of approved quality,Two coats (with any shade except white)	200.00	Sqm		

22	Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand(1.5mm thick)	1000.00	Sq.m		
23	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy.	1500.00	EA		
24	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete	400.00	Kg		
25	Patching of damaged concrete surface with polymer concrete (25 mm nominal thick) and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	400.00	Sq.m		
26	Supplying, Preparing and placement of ready mix none shrink cementious micro concrete having no metallic aggregate or chlorides for repairing and jacketing of damaged R.C.C. members. The micro concrete should achieve a compressive strength not Less than 10 MPa after 24 hours. 40 Mpa after 7 days And 50Mpa after 28 days at 300C.It should have Unrestrained expansion in between 1 to 4%. Flexural Strength shall not be less than 5MPaafter 28 days. Micro concrete should have a co-efficient of thermal expansion similar to that of the host Concrete.	14	Cum		
27	Applying epoxy mortar ( 10 mm nominal thick) over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete	30.00	Sq.m		
28	Repairing crack in by cement grouting (1 : 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface. (Cement-69 Kg/100 m)	200.00	Mtr		
29	Epoxy bonding of new concrete to old concrete	600.00	Sq.m		
30	Taking out tiles carefully by chiselling from walls or floor including stacking serviceable material as directed.	270.00	Sq.m		

31	Supplying and laying true to line and level Anti-Skid, Full Body, Homogeneous & Granular finish Vitrified Tiles conforming to IS:15622-2006 & IS 4457-2007 and testing shall be made in accordance with IS:13630 a) In Ground Floor: Sizes-300 mm x300mm x10 mm with breaking strength > 1200 N	160.00	Sq.m		
32	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.	110.00	Sq.m		
33	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. A) UPVC Pipes: (iii) 160 mm. Dia.	100.00	Mtr		
34	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. a) Plain Tee (iii) 160 mm. Dia.	20.00	EA		
35	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. c) Bend 87.5 degree (iii) 160 mm. Dia.	20.00	EA		
36	Supplying, fitting and fixing shower of approved brand and make. (iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	25.00	EA		

37	Supplying, fitting and fixing bib cock or stop cock. i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	50.00	EA		
38	Charge towards drilling of holes by drilling machine of 30MM dia at 3M C/C apart up to a depth of 250 mm.	60	EA		
39	Insertion of 22 mm dia pipe by hammering up to a depth of 6M. and sealing of hole after grouting of soil	60	EA		
40	Charge for grouting of soil by pressure grouting of cement slurry. Soil grouting with cement and fine silica preferably white sand admixed with Sika Mint 170 PL4 @ 0.2 % by weight of cement at a pressure of approx. 1.5 to 4 kg/Sqm. Cm	500	Per Bag		
41	Supply , loading , Unloading , handling, lifting or lowering , fitting , fixing , including surface preparation by chipping , grinding ,rubbing , cleaning foreign material, if any and dust, dirt, using solvent, chemicals, water, etc. as required, dying the surface , cutting , fitting, as deemed fit, applying bond coats, as specified by manufacturer , for pasting of wrappable carbon fibre mesh of two layers of 200 GSM each on surfaces, horizontal, vertical, sloppy, as specified a directed by the Engineer In Charge , complete ,including providing artificial ventilation, tools and tackles , PPE, APPLIAANCES, MACHINERY, SCAFFOLDING , LIGHTING, LOWERING , PROVIDING standard lapping of fabric at joints to adjoining floor, beams, walls, column etc. and in between consecutive fabric of wrapping.	200	Sqm		
42	Sealing new expansion joint with Elastomeric Polysulphide Sealant of gap size 50mm X 25mm Including cleaning of the expansion joint thoroughly, mending of edges & surface, placing 50mm dia Backer rod as back up material with the Cost of materials, labours, & all other incidental charges as per manufacturer's specification & direction of Engineer-in charge.	100	Mtr.		

**D. Retroffiting, Strengthening and Repairing of Time Office at GRSE, Main Unit**

SI No	Description of Item	Qty	Unit	Rate	Amount (Rs.)
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1	Stripping off worn out plaster and raking out joints of walls, ceilings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	800.00	Sq.m		
2	Cutting chase upto 125 x 150 mm. and subsequent mending of damages, in brick wall	200.00	M		
3	Cutting chase upto 125 x 150 mm. and subsequent mending of damage, in concrete wall	200.00	M		
4	Removal of rubbish,earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal /Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	60.00	Cum		
5	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete	100.00	Sq.m		
6	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement	15.00	Sq.m		
7	Reinforcement 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. SAIL/TATA/RINL	0.20	MT		
8	Making one set of scaffolding only for repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in charge. a) 3.90 metre height	1	LS		
9	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in water tank etc. (No Departmental Cement is required)	820.00	Sq.m		

10	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary, With 1:3 cement mortar 20 mm thick plaster	1000.00	Sq.m		
11	Anti-Carbonation coating for protection of Concrete Surface from Carbonation by with two coats Of Single component solvent free, cold applied, pure acrylic polymer, (Anti carbonation coating) breathable, elastomeric on a water based priming coat (Total 3 (three) coats Including priming coats) having 50% elongation property, UV Resistant capacity, non-toxic with asthenic view, eco Friendly and low VOC (Volatile Organic Compound) material. The product compliance with the requirement as laid out in as per ASTM D822. Recommended DFT ((Dry Film thickness): 100 -110 microns per coat. Top coat may have with 5" - 10% dilution if required and anti carb primer with 100 % dilution with approx. DFT: 20 Micron. Total system OFT should not be less than 230 micron for getting better anti-carbonation property on concrete surface as Per direction of Engineer -In.charge.	700	Sqm		
12	Supplying. Preparing and placement of ready mix none shrink cementitious micro concrete having no metallic aggregate or chlorides for repairing and jacketing of damaged R.C.C. members. The micro concrete should achieve a compressive strength not Less than 10 MPa after 24 hours. 40 Mpa after 7 days And 50Mpa after 28 days at 300C.It should have Unrestrained expansion in between 1 to 4%. Flexural Strength shall not be less than 5MPa after 28 days. Micro concrete should have a co-efficient of thermal expansion similar to that of the host Concrete.	2	Cum		
13	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC, One Coat	1500.00	Sqm		
14	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface. Two Coat	3600.00	Sqm		

15	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer.Two Coat	1500.00	Sqm		
16	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc	120.00	Sqm		
17	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	150.00	Sqm		
18	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary, On timber or plastered surface, With other than hi-gloss of approved quality,Two coats (with any shade except white)	150.00	Sqm		
19	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary, On steel or other metal surface, With other than hi-gloss of approved quality,Two coats (with any shade except white)	120.00	Sqm		
20	Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand(1.5mm thick)	800.00	Sq.m		
21	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy.	200.00	EA		
22	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete	50.00	Kg		
23	Patching of damaged concrete surface with polymer concrete (25 mm nominal thick) and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	100.00	Sq.m		

24	Applying epoxy mortar ( 10 mm nominal thick) over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete	200.00	Sq.m		
25	Repairing crack in by cement grouting (1 : 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface. (Cement-69 Kg/100 m)	450.00	Mtr		
26	Epoxy bonding of new concrete to old concrete	200.00	Sq.m		
27	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. A) UPVC Pipes: (iii) 160 mm. Dia.	25	Mtr.		
28	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. a) Plain Tee (iii) 160 mm. Dia.	5	EA		
29	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valladolid/Bitumen/M-Seal etc.) complete. c) Bend 87.5 degree (iii) 160 mm. Dia.	5	EA		
30	Supplying, fitting and fixing shower of approved brand and make. (iii) Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Something Special of ESSCO or similar brand).	3	EA		
31	Supplying, fitting and fixing bib cock or stop cock. i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Something Special of ESSCO or similar brand).	8	EA		
32	Supplying & laying 3mm thick pre-fabricated plastomeric water proofing membrane conforming to EN 12311-1 & ASTM D 5147, manufactured with atactic poly propylene (APP) modified premium grade asphalt , specially reinforced with non-woven polyester core with polyester reinforcement @ 160	15	Sqm		

	<p>gms per sqm &amp; both faces covered with thermo-fusible polyethylene film /Mineral on top face over a coat of primer @ 0.40 lit/sqm of manufacturer's specification on smooth, clean dry surface prepared wherever required. Lap joint shall be provided of 75 mm in longitudinal &amp; 100 mm in transverse direction and fused using LPG/ Propane torch employing extra care ensuring full bondage, complete removal of entrapped air and sealing edges into grooves in appropriate manner as per direction of Engineer -in-charge all complete including materials, labour and applicable taxes.</p>				
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**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"

**Preamble**

The Principal intends to award, under laid down organizational procedures, contract/s for "Name of the job:-----". 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 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 contact 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 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 Bidders(s)/ Contractor(s) will not instigate third persons to commit offences, outline above or be an accessory to such offence.

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

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

#### Section 4- Compensation for Damages.

- 1) If the principal has disqualified the Bidder(s) from the tender process prior to the award according to section 3, the principal is entitled to demand and recover the damages equivalent to earnest Money deposit/Bid security.
- 2) If the Principal has terminated the contract according to section 3, or if the principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

#### Section 5- Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 2) If the Bidder makes incorrect statement on this subject he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealing"

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

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

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

If the principal obtains knowledge of conduct of a Bidder, contractor or subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Sub contractor which constitutes corruption, or if the principal has substantive suspicion in this regard, the principal will inform the same to the Chief Vigilance Officer.

#### Section 8- Independent External Monitor/Monitors

- 1) The Principal appoints competent and credible Independent External Monitor for this pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 2) The Monitor is not subject to instructions by the representative of the parties and perform his functions neutrally and independently. He reports to the Chairman GRSE.
- 3) The Bidder(s)/Contractor (s) accepts that the Monitor has the right to access without restriction to all project documentation of the principal including that provided by the contractor. The contractor will also grant the Monitor, upon his request and

demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) /Subcontractor(s) with confidentiality.

4) The Principal will provide to the Monitor sufficient information about all meeting among the parties related to the project provided such meetings could have an impact on the contractual relations between the principal and the contractor, The parties offer to the Monitor the option to participate in such meetings.

5) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the management of the principal and request the management to discontinue or take corrective action, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

6) The Monitor will submit a written report to the Chairman, GRSE within 8 to 10 weeks from the date of reference or intimation to him by the principal and should the occasion arise, submit proposals for correcting problematic situations.

7) Monitor shall be entitled to compensation on the same terms as being extended to/provided to Independent Directors on the GRSE Board.

8) If the Monitor has reported to the Chairman GRSE a substantiated suspicion of an offence under relevant IPC/PC act, and the Chairman GRSE has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.

9) The word `Monitor' would include both Singular and plural.

#### Section 9- Pact Duration:

This pact begins, when both parties have legally signed it. It expires for the contractor 18 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairman of GRSE.

#### Section 10- Other provisions:

1) This agreement is subject to Indian Law, place of performance and jurisdiction is the Registered Office of the principal i.e. Kolkata.

2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(For & On behalf of the principal)

(For & On behalf of the Bidder/Contractor)

Place .....

Place .....

Date .....

Date .....

Witness 1  
(Name & Address)

Witness 2  
(Name & Address)

**ANNEXURE - 4**

**FORMAT FOR EXECUTED RELEVANT JOBS TO JUSTIFY TECHNICAL ELIGIBILITY**

- 1. **Name of the Bidder:**
- 2. **Job Description:**
- 3. **Tender Reference:**

**Details of Executed relevant jobs:**

Sl. No	Description of Executed relevant jobs	Order No. & Date <i>(Supporting soft or, hard copy to be submitted)</i>	Start & Completion date as per Order	Actual start date	Actual Completion Date	Order placed by	Value of Purchase order	Work completion certificate Ref. No. & date <i>(Supporting soft or, hard copy to be submitted)</i>
1								
2								
3								
4								
5								

*Note: Please add additional pages if required*

**(Signature of Authorized Representative)**

**Date:**

**Name:**

**Designation:**

**FORMAT ON FINANCIAL ELIGIBILITY CRITERIA**

*(To be submitted on Company's letter head)*

1. **Name of the Bidder:**

2. **Job Description:**

3. **Tender Reference:**

**A. Financial Data for evaluating Financial Eligibility :**

SL. No.	Financial Years	Turn Over (Rs. In Lakhs)
1	2020-21	
2	2019-20	
3	2018-19	

**B. Detail of Solvency certificate:**

Reference no. of certificate	Name of Bank, Branch	Amount of Solvency (Rs.)

***(Signature of Authorized Representative)***

***Date:***

***Name:***

***Designation:***

***Note: i) Audited reports for above FY to be submitted as supporting documents.  
ii) Banker's letter confirming solvency to be submitted as detailed in Article-19***

**FORMAT OF SELF-CERTIFICATION FOR DECLARATION REGARDING BLACKLISTING/ TENDER HOLIDAY**

*(To be submitted in Company's Letterhead)*

I / We, Proprietor/ Partner(s)/ Director(s) of M/s. ----- hereby declare that our firm/company namely M/s.-----have neither been blacklisted nor have received any tender holiday by any PSUs/Central & State Govt. Organizations or any other Government / Quasi Government Organizations during last 03 (three) years ending on 30.04.2022 from taking part in Government tenders.

**Or**

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

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

Signature -----

Name -----

Designation: -----

Name & address of the firm: -----

Date:

Signature of Bidder with Seal.

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

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

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

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

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

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

**RESPONSIBILITIES OF CONTRACTORS OVER AND  
ABOVE THE STATUTORY REQUIREMENTS**

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

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<b>CHECK LIST FOR BILL SUBMISSION - for Service Contracts</b>				
<b>A. GENERAL PARTICULARS: (to be checked and submitted by Contractor/Vendor)</b>				
A.1	BTN (as per BTS System):-			
A.2	Invoice No and date / E-Invoice No. & Date (if applicable for the vendor) (Original & in triplicate)			
A.3	PO Number			
A.4	Name of Vendor			
A.5	Location of work :	MW / RBD/ FOJ/ TU / 61Park/Vendor's premises		
<b>I. For RA Bill (Running/Progressive bill) (Put ✓ Mark)</b>		<b>YES</b>	<b>NO</b>	<b>NA</b>
A.6	PO Number and date verified with Invoice:			
A.7	Vendor Name & Address in Invoice verified with Purchase Order:			
A.8	Vendor Code as in PO verified with Invoice:			
A.9	Original certified WDC enclosed :			
A.10	Whether WDC is Certified by the Authorized Person as per PO / SOTR with Rubber Stamp			
A.12	HSN/SAC code is as per PO			
A.13	GSTIN No. is as per PO			
A.14	GST % is as per PO			
A.15	Security Deposit (SD) submitted as per PO			
A.16	PBG of equivalent amount submitted, as per PO			
A.17	Compliance of Statutory Liabilities of labour as per PO			
<b>II. Applicable for Final/Balance Bill (Put ✓ Mark)</b>				
A.20	Certified Job Completion Certificate (JCC) enclosed			
A.21	MRS as per PO terms enclosed (If applicable)			
A.22	Guarantee Period (GP) expired as per PO term			
A.23	PBG of equivalent amount submitted, if GP is not over (If Yes, copy to enclose with the bill)			

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Signature of Vendor's representative  
with Seal/Stamp

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

**CHECK LIST FOR BILL SUBMISSION - for Service Contracts****For GRSE Use Only**

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

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Signature of GRSE Bill Certifying Authority  
with Designation