

TENDER

GOVERNMENT COLLEGE OF ENGINEERING, KARAD

FOR

REFURBISHMENT OF VARIOUS ASSETS AND CONSTRUCT NEW ASSETS
(BUILDINGS) AT GOVERNMENT COLLEGE OF ENGINEERING KARAD,
TAL.KARAD, DIST.SATARA

Ref: GCEK/BWC/CIVIL WORKS/2023/ 4818

ANNEXURE - A : TECHNICAL BID

Government College of Engineering, Karad
[An Autonomous Institute of Govt. of Maharashtra]

NAME OF WORK: REFURBISHMENT OF VARIOUS ASSETS AND CONSTRUCT NEW
ASSETS (BUILDINGS) AT GOVERNMENT COLLEGE OF ENGINEERING
KARAD, TAL.KARAD, DIST.SATARA.

E-tender Time Table	
PERIOD OF ONLINE SALE OF BIDDING DOCUMENT	FROM : 01 st November 2023 TO : 15 th November 2023
TIME AND DATE OF PRE-BID MEETING	On 8 th November 2023 at 11:30 am
LAST DATE AND TIME FOR ONLINE RECEIPTS OF BIDS	15 th November 2023
COST OF TENDER	Rs. 5,000.00 Non-refundable

Date : 01/11/2023


Principal,
Government College of Engineering, Karad

TENDER NOTICE
GOVERNMENT COLLEGE OF ENGINEERING, KARAD
[An Autonomous Institute of Govt. of Maharashtra]
Vidyanagar, Karad-415 124
Ph: (02164) 272414, 8275706613
email: bwcgcekarad@gmail.com

Title: Refurbishment of various assets and construct new assets (buildings) at Government College of Engineering, Karad, Tal.Karad, Dist.Satara.

Ref: GCEK/BWC/CIVIL WORKS/2023/4818

Government College of Engineering, Karad (GCEK) invites tenders for following Refurbishment of various assets and construct new assets (buildings) at Government College of Engineering, Karad, Tal.Karad, Dist.Satara on item rate basis from reputed qualified contractors. The interested bidders can apply to <https://mahatenders.gov.in> to purchase blank tender forms along with necessary cost from 01st November 2023 to 15th November 2023. The last date of submission is 15th November 2023 upto 12.00 noon as stated in the bid documents. The right to accept or reject any or all offers is reserved by the authority.

Sr. No.	Name of Work	EMD (Rs)	Cost of Bid Document (Rs) [Non Refundable]	Period of Completion in Days
1	Refurbishment of various assets and construct new assets (buildings) at Government College of Engineering, Karad, Tal.Karad, Dist.Satara	5,00,000=00	5,000=00	2 Years Contract

In case of any queries please contact BWC Office hereer [Prof. S. V. Joshi : +91 8275661104] The bidders can download the tender documents from website <https://mahatenders.gov.in> and in such cases, while submitting the bid document, the cost of blank tender in the form of DD/Online Payment receipt shall be submitted.

Date : 01/11/2023


Principal
Government College of Engineering, Karad.

INVITATION FOR TENDERS:

Refurbishment of various assets and construct new assets (buildings) at
Government College of Engineering, Karad, Tal.Karad, Dist.Satara

To

Dear Sir,


Sub:- Refurbishment of various assets and construct new assets (buildings) at
Government College of Engineering, Karad, Tal.Karad, Dist.Satara

- 1) You are invited to submit your most competitive tender along with qualification documents for the following works:-

Brief Description of works	EMD	Period of completion
Refurbishment of various assets and construct new assets (buildings) at government college of engineering karad, tal.karad, dist.satara	Rs 5,00,000	2 Years Contract. Completion period will be mentioned on various work orders under this contract.

- 2) To assist you in the preparation of your tender, we are enclosing the following
- Detailed Bill of Quantities
 - Instructions to Bidders
 - Draft Contract Agreement format, which will be used for finalizing the agreement for this contract.
- 3) You are requested to provide your offer by the date & time indicated in the notice & the tender.
- 4) Please note that bids to be submitted online. Information regarding technical qualification will be published online.
- 5) We look forward to receiving your tenders and thank you for your interest in this project.

Yours Sincerely,


Sd/
Principal
Govt. College of Engineering,
Karad-415124. Phone (02164) 272414

General Information and Instructions for Bidders

The instruction given herein will be strictly binding on the tenderers. Deviation, if any will make the tender or tenders liable to be considered invalid. Conditional tenders are liable for rejection.

Bids shall be submitted online only at website: <https://mahatenders.gov.in> Manual bids shall not be accepted.

Blank Tender Fee payment:

- Demand Draft of Nationalized /Scheduled Bank only is accepted as Blank Tender fees.
- In the case of blank tender fees is to be paid in NEFT form then name of the Vendor and purpose of transaction (e.g. “XYZ Computers”. payment towards AutoCAD tender) to be clearly mentioned while making NEFT transaction.

Bank details for NEFT:

- Bank Name: HDFC BANK LTD. KARAD (2)
- A/C Name: PRINCIPAL GOVT. COLLEGE OF ENGINEERING KARAD
- A/C no.: 50200001347634
- IFSC Code: HDFC0002692
- Branch Name: BUDHWAR PETH, KARAD

The tenderers shall fill up the Prescribed Format for submission of Technical Bid as per “Annexure-A” format duly signed by the authorized signatory. The person signing the tender document should be authorized for submitting the online e-tender.

The instruction given in “Annexure-B” for “INSTRUCTIONS FOR PARTICIPATING IN e-TENDERS” should be strictly followed during submission of the Bid.

Rejection of Bids: Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection. Conditional tenders will be rejected. Non-compliance of applicable General Information and Instruction will disqualify the Bid.

The tenderers should have Digital Signature Certificate (DSC) for filling up the Bids. The person signing the tender documents should be authorized for submitting the online e-tender.

The Financial Bid shall be filled in and signed by the authorized signatory online as per Proforma “Annexure-F” available at Mahatender’s Portal <https://mahatenders.gov.in>

Offline Financial Bid shall not be accepted.

Tender must be uploaded online by the bidder in two separate covers marked Cover-I and Cover-II. The contents of Cover - I and Cover-II will be as follows:

Cover - I

- I. Technical Bid as per “Annexure - A” format duly filled in and signed by the authorized signatory with official stamp. ii. Copy of certificate of valid registration of Company/Firm duly self-attested with official stamp.
- II. Scanned Copy of the current and valid GST Registration Certificate / PAN card indicating GST Number/ PAN No. duly self-attested with official stamp.
- III. The ‘UNDERTAKING’ of the bidder (as detailed in Annexure-C) duly signed by the authorized signatory with official stamp.
- IV. The ‘Technical Specification’ as detailed in Annexure-D (as a token of acceptance for delivery of materials in accordance to the Corporation’s Specification) duly self-attested with official stamp.
- V. Geo Tagging (as detailed in Annexure-E) is mandatory to keep envelope no 1 otherwise Tender will not be accepted. Envelope 1 without Geo Tagging certificate will be treated as non-responsive tender.
- VI. Scanned Copy of General Terms & Conditions as detailed in Annexure-A duly self-attested with official stamp as a token of acceptance.
- VII. Valid certificate from Autodesk declaring the company to be a channel partner to deal with Autodesk products within the Indian Territory.
- VIII. Scanned copy of credentials of past experience in such business for last 3 years. ix. Scanned copy of Demand Draft of Rs. 5000/- (Inclusive of GST) toward cost of blank tender copy.

In case the bidder fails to submit any of the documents as stated above, the other part of their tender i.e., ‘Cover- II’ shall not be considered for further download and shall be rejected straightway without any further reference. The Technical Bids and other documents i.e. ‘Cover- I’ will be downloaded and evaluated at the first stage to select the technically capable and competent bidders. At the second stage, Financial/Price Bids i.e. ‘Cover - II’ of only the technically acceptable offers will be downloaded and evaluated for further ranking before awarding the contract. After opening of ‘Cover -I’, if all the bids are found technically unacceptable, the Financial (Price Bid) Bids i.e., ‘Cover - II’ submitted by the bidders against this Tender shall not be opened/downloaded for obvious reasons.

Cover-2

The Financial Bid (as per Annexure-F format) i.e., Schedule of Price Bid in the form of attached BOQ Proforma duly filled in and digitally signed.

The authorities of Government College OF Engineering Karad., who does not bind themselves to accept the lowest tender, reserves the right to reject or accept any or all tenders wholly or partially without assigning and reason whatsoever.

ANNEXURE - B

INSTRUCTIONS FOR PARTICIPATING IN e-TENDERS

Tenderers shall have valid Digital Signature Certificate (DSC) obtained from any Certifying Authorities. In case of requirement of DSC, interested Bidders shall logon to <https://mahatenders.gov.in> and follow the procedure mentioned in the document.

‘Procedure for application of Digital Certificate’.

For any assistance on the use of Electronic Tendering System, the Users may call the following numbers:

Helpdesk No. - 0120-4001 002, 0120-4001 005, 0120-6277 787, 0120-4200 462

e-Tender Portal: - <https://mahatenders.gov.in>

Tenderers shall install the Mandatory Components available on the Home Page of <https://mahatenders.gov.in> and make the necessary Browser Settings provided under section ‘Internet Explorer Settings’

A. Pre-requisites to participate in the Tenders processed by Client:

Registration of contractors on Electronic Tendering System on <https://mahatenders.gov.in>.

The Tenderer interested in participating in the Tenders of Client processed using the Electronic Tendering System shall be required to enroll on the Electronic Tendering System to obtain User ID and password on the <https://mahatenders.gov.in>. Once the ID is generated the Bidder can login into the Tendering portal of Government of Maharashtra. The process of Enrolment is explained in Step.

Registration of New Bidders/Vendor.:

Registration link: <https://mahatenders.gov.in> (or click on “online bidder enrolment” Link at Right side panel)

After submission of application for enrolment on the System, the application information shall be verified by the Authorized Representative of the Service Provider. If the information is found to be complete, the enrolment submitted by the Vendor shall be approved.

The Tenderers may obtain the necessary information on the process of enrolment either from Helpdesk Support Team: may visit the site <https://mahatenders.gov.in>

B. Instructions to the Contractors/Bidders for the e-submission of the bids online through this tender site: <https://mahatenders.gov.in>

1. Tenderer shall register themselves on <https://mahatenders.gov.in> portal by clicking “Online Bidder Enrolment” and then map Digital Signature certificate.
2. Tenderer shall then login to the site giving user id/ password chosen during registration.

3. The e-token registered shall be used by the Tenderer only and shall not use by any other person.
4. The Tenderers can update well in advance, the documents such as certificates, purchase order details etc., under “My Documents” option and these can be selected as per tender requirements and then attached along with bid documents during bid submission.
5. After downloading/ getting the tender schedules, the Tenderer should go through them carefully and then submit the documents as asked, otherwise, the bid will be rejected.
6. If there are any clarifications, these shall be obtained online through the tender site, or through the contact details. Tenderer shall consider the corrigendum’s published before submitting the bid online.
7. Tenderer, in advance, shall complete the bid documents to be submitted as indicated in the tender schedule and the same shall be in PDF/XLS/RAR/DWF formats. If there is more than one document, they can be clubbed together.
8. The Tenderer shall read the terms and conditions and shall accept the same to proceed further to submit the bids.
9. Tenderer shall read the “Announcements” and “Downloads” section of <https://mahatenders.gov.in> before submitting the Bid.
10. The Tenderer shall submit the tender document online well in advance before the prescribed time to avoid any delay or problem during the submission process.
11. After the bid submission, the acknowledgement number, generated by the e- tendering system shall be printed by the Tenderer and kept as a record of evidence for online submission of bid for that particular tender.
12. The Tender Inviting Authority (TIA) shall not be responsible for any sort of delay or the difficulties faced during online submission of the bid by the Tenderer.
13. The Tenderer shall submit the bid documents online through the site (<https://mahatenders.gov.in>) as indicated in the tender.
14. The tendering system will give a successful bid uploaded message after uploading all the bid documents and then a bid summary will be shown with the bid no, date and time of submission of the bid with all other relevant details. The documents submitted by the Tenderers will be digitally signed using the e-token of the Tenderer. The bid summary shall be printed and kept as an acknowledgement of submission of the bid.
15. The bid summary will be a proof of bid submission for a tender floated and shall also be an entry permit to participate in the bid opening date.
16. Bidder shall log in to the site well in advance for bid submission so that he can submit the bid in time i.e. on or before the bid submission end time. For any delay, due to any issue, bidder alone shall be responsible.
17. The bidder shall ensure that the bid documents submitted are free from virus. If the documents uploaded by the Bidder could not be opened, due to virus, during tender opening. The bid shall be treated as invalid.
18. The time settings fixed in the server and displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders shall follow these time settings during bid submission.
19. The bidder shall logout of the tendering system using the normal logout option available at the top right-hand corner and not by selecting the (X) option in the browser.

20. The bidder shall upload the Technical document in .RAR format single
21. File to upload in Technical Bid and then Price Bid in .XLS format, single file, to upload in "Finance Bid".
22. For any other queries, the bidders can contact e-tender Helpdesk support team: - 0120-4001 002, 0120-4001 005, 0120-6277 787, 0120-4200 462.

PREPARATION OF BID/ TENDERING PROCEDURE

Blank Tender Forms:

Blank tender forms can be downloaded online from the e-Tendering portal i.e. <https://mahatenders.gov.in/> as per the schedule defined in the tender notice.

Language of Bid:

The language of bid shall be English unless otherwise specified.

Cost of Bidding:

The bidder shall bear all costs associated with the preparation and submission of his Bid, and he shall in no case be responsible and liable for those costs regardless of the conduct or outcome of their Bidding Process.

Instructions to Bidders

SECTION –A

1) Scope of works

The Principal, Government College of Engineering, [An Autonomous Institute Govt. of Maharashtra] Vidyanagar, Karad-415 124, (Employer) invites the tenders for Refurbishment of various assets and construct new assets (buildings) at Government College of Engineering, Karad as detailed in the table given below.

Brief Description of works	Period of completion
Refurbishment of various assets and construct new assets (buildings) at Government College of Engineering, Karad, Tal.Karad, Dist.Satara.	2 years from the date of Works Order.

The successful bidder will required to complete the work by the intended completion period specified above.

2) Qualification of the bidder: - The bidder shall provide qualification information which shall include :-

- Works executed as well as under execution, for each year of the last 3 years for works preferably similar in nature of the present work.
- Contractor should be register contractor, registered under Government/ Semi-government organization/ Public undertakings. Reputed Contractors who does not have a formal registration with any government body but having excellent proven work experience in this field can also be eligible.
- Copy of Income tax return for previous 3 years.
- Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount in each case.
- A DD of EMD specified amount, drawn on any nationalized or scheduled Bank, against EMD in the name of “The Principal, Government College of Engineering, Karad” should be deposited with the Technical bid.

3) To qualify for award of the contract the bidder: -

- The BIDDER should be an established Construction CONTRACTOR and should possess experience of having successfully completed works in building Sector as given below during last 5 years:
- Residential or commercial building with minimum size of 25m x 25m in Plan and 15m in height.
- The BIDDER/CONTRACTOR shall have successfully completed in last Five (5) Years similar works of:
- One work of value INR 7 Crores OR
- Two works of value INR 4 Crores each

- f) Average annual financial turnover of not less than 10 Crores.
- g) Profit making entity for at least 3 years in the last 5 years, certified by a registered Chartered Accountant along with balance sheets.
- h) Joint venture / consortia of firms / companies and foreign bidders are not eligible to quote for the tenders.
- i) The bidders are required to upload a page of summarized Balance Sheet (Audited) and also page of summarized Profit & Loss Account (Audited) for immediate last three years.
- j) Financial Soundness Certificate: The BIDDER shall submit solvency certificate, from a Nationalized or scheduled Bank for a value not less than INR 10 Crores, issued on or after the date of publishing of tender.
- k) Completion certificate from the Client certifying completed value, satisfactory completion, commissioning, and successful guarantee tests towards the work order of such project submitted above as proof.
- l) Preference will be given to bidders who are native from the State of Maharashtra.
- m) Even though the bidders are pre-qualified, they are subject to be disqualified if they have: -
 - made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
 - record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and/or
 - Participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.
- n) The tenders will be evaluated on techno-commercial basis by giving 30% weight to experience & technical expertise of the contractor & 70% weight to bid price. The formula & evaluation procedure is given in Annexure 2.
- o) Note for Micro & Small Enterprises and Startups: Prequalification criteria specified above shall also be applicable for Micro & Small Enterprises and Startups without any relaxation.
- p) For the specification of works / items which is not available in BOQ but is required to complete the works, the same shall be referred to Schedule of Rates (latest) issued by PWD, Maharashtra. The unit rate for the same shall not exceed the rates given in Schedule of Rates (latest) issued by PWD, Maharashtra.

4) Bid price

- a) The contract shall be for the complete work as described in the bill of quantities, drawing and technical specifications.
- b) Corrections, if any, shall be made by crossing out, with signature.
- c) All duties, taxes and other levies involved under the contract shall be included in the total price except Service tax & Octroi. Service tax if any should be quoted separately. Employer will give Octroi exemption certificate(s) to the bidders if required.
- d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

- e) The rates should be quoted in Indian Rupees.
- f) The bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will in no case be responsible & liable for those costs.
- g) The Bidder, at the Bidder's own responsibility and risk & cost, is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the Works.

5) Submission of Tenders

Tenders are accepted by E-tendering procedure as per Government of Maharashtra at <https://mahatenders.gov.in>

Tender Forms can be purchased from the E-tendering Portal of Government of Maharashtra i.e. <https://mahatenders.gov.in> after paying Tender Fees.

Each bidder shall submit only one tender. Submission of more than one tender by the same bidder shall automatically lead to disqualification of the bidder.

The tender submitted by the bidder shall comprise the following in two different Online envelopes: -

- Part 1: Technical Bid: Qualification documents along with EMD
- Part 2: Commercial bid.

6) Validity of Tenders

Tender shall remain valid not less than 45 days after the deadline date specified for submission.

7) Opening of Tenders

Tenders will be opened by Authorized Personnel of Government College of Engineering, Karad.

Information relating the evaluation of tenders & recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

8) Evaluation of Tenders

The owner will evaluate & compare the tender determined to be substantially responsive i.e. which

- a) Meet the technical qualification & evaluation criteria specified.
- b) Are properly signed

- c) Conform to the terms and conditions, specification & drawing without material deviations.
- d) Government College of Engineering, Karad has right to disqualify all or particular bidder during bidding process and disqualified bidder will not be provided with any justification.

9) Award of contract

The Employer will award contract to the bidder whose tender has been determined to be substantially responsive and who meets the specified qualification criteria and has scored the maximum points in evaluation system.

Notwithstanding the above, the Employer reserves the right to accept or reject any tenders & to cancel the bidding process and reject all tenders at any time prior to the award of contract, without giving any reason thereof.

10) Performance Security

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the Principal, Government College of Engineering, [An Autonomous Institute of Govt. of Maharashtra], Vidyanagar, Karad - 415124, the performance security (Either a bank guarantee or a bank draft in favour of the employer) for an amount equivalent of 5% of the contract price. The performance security shall be valid till the expiry of the period of maintenance of the work, specified in the clause 11.

11) Period of Maintenance

The "Period of Maintenance (defect liability)" for the work is Twenty-four months from the date of taking over possession. During the period of maintenance; the contractor will be responsible for rectifying any defects in working. This will be done by the contractor at his own expenses.

12) Special Conditions

1. For Technical data / detail & specifications if in doubt/ unclear/ mismatch, the same are to be clarified with the Principal, Government College of Engineering, Karad.
2. Principal GCEK/ employer reserves the option to allot the work partly or totally to single or different Contractors. The employer also reserves the right to supply some of the material. The scope of work for such items will be limited to erection only.
3. Principal GCEK/ employer reserves the right to call explanations from any bidder regarding the calculations/ clarifications on any details. They may also visit the office of the bidder/ various works carried out by him. The necessary Cooperation in this regard is envisaged from the bidder.
4. The Contractor is responsible for the due & proper execution of all the works as per terms & conditions stipulated under this Contract. The contracting agency should study the design details and understand clearly prior to quoting. The responsibility of performance will be with the Contractor.

5. The contractor may have to use additional supports, materials, accessories, hardware, equipments, labor etc. for proper execution & performance, required stability of complete system, fulfilling interior design requirements, following best engineering practice, executing the additional instructions given by the Principal GCEK or employer during the work. No additional cost will be paid for this.
6. The bidder shall make no changes in the tender form or in the specifications & schedule. The bidder may however submit alternative proposals, in separate enclosures, indicating any variation whichever they feel is beneficial. Calculations, salient features, advantages, economics, layout shall back the same. Acceptance of the alternate proposal rests with the Principal GCEK/ employer.
7. The Principal GCEK/ their representatives shall have access to the workshop/ Manufacturing facilities of the bidder so as to assure themselves of the quality of the material & workmanship.
8. The successful Contractor shall submit a detailed bar chart within 2 days of award of work.
9. The measurement given in drawing is subject to verification at site. In case of any discrepancy, the same shall be brought to the notice of both, the engineer in charge & the Principal GCEK for the decision.
10. In order to complete the work, within the time limit of the tender, the contractor may have to work in more than one shift.
11. The contractor shall make their own arrangements for security of their materials/ tools etc.
12. In case of unavailability of specified materials in the market, the contractor may substitute by equivalent materials of same or better quality & properties, after duly approved by the Principal GCEK.
13. The Principal GCEK/ employer reserve the right to split the items and scope of work without assigning any reason thereof.
14. In case of any controversy, the decision of the Principal GCEK/ employer shall be final & binding on contractor.
15. Verbal instructions given by the Principal GCEK, if any, will be confirmed in writing by the contractor within 7 days & before execution thereof.
16. At least one engineer of the contractor, capable of understanding all the technical points & act accordingly, should be available on site at all the time.
17. The contractor along with his technical staff should be present at site at the time of site-visit & whenever needed.
18. In case of conflict in specifications or terms, between tender, drawings, general engineering practice, national & international codes, more stringent among all will be applicable.

13) Technical Specifications

1. The work shall be carried out as per specifications. Any deviations from the Specifications, either on account of manufacturing or installation practices or for any other reasons, shall be clearly mentioned in the separate letter explaining in detail each and every departure the contractor proposes to make from the tender specifications. Unless specifically mentioned it will be considered that the bidder agrees to supply all equipment as specified. All the deviations shall be subject to the approval of the consultants.
2. The rates quoted for various items included in this tender shall be inclusive of the cost of necessary framework, scaffolding, lifting of materials etc. As the work is proposed to be

executed at various heights, no extra claim shall be entertained on account of execution of work at various heights/ floor. The measurement of items included in this work shall not be taken and paid separately for different floor levels and varying heights.

3. The contractor shall furnish the following in due course
 - a. Performance test reports by performing all required tests.
 - b. Names & addresses of nearest (local) suppliers.

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ANNEXURE - C

Notarized Affidavit (On Rs.100/- Stamp Paper)

NAME OF WORK : REFURBISHMENT OF VARIOUS ASSETS AND CONSTRUCT NEW ASSETS (BUILDINGS) AT GOVERNMENT COLLEGE OF ENGINEERING KARAD, TAL.KARAD, DIST.SATARA

I age

address..... (Authorized signatory to sign the contract), hereby submit, vide this affidavit in truth, that I am the owner of the contracting firm..... / authorized signatory and I am submitting the documents in envelope no.1 for the purpose of scrutiny of the contract. I hereby agree to the conditions mentioned below :-

1. I am liable for action under Indian Penal Code for submission of any false / fraudulent paper / information submitted in envelope no.1.
2. I am liable for action under Indian Penal Code if during contract period and defect liability period, any false information, false bill of purchases supporting proof of purchase, proof of testing submitted by my staff, subletting company or by myself, I will be liable for action under Indian Penal Code.
3. I am liable for action under Indian Penal Code if any papers are found false/ fraudulent during contract period and even after the completion of contract (finalization of final bill).

(Signature of contractor)

(Seal of company)

ANNEXURE - D
QUALIFICATION INFORMATION

1.1) Principal place of business :- _____

Power of attorney of signatory of Tender.
(***Attach attested Xerox copy***)

1.2)	Total value of Works Executed in the last Three years (in Rs. Lac)	2020-2021	_____
		2021-2022	_____
		2022-2023	_____

1.3) Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

Project Name	Name of Employer	Description of work	Contract no.	Value of contract (Rs. Lac)	Date of issue of work Order	Stipulated period of completion	Actual date of completion	Remarks explaining reasons or delay & work completed
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Information about Existing commitments and on - going works:-

Description of work (1)	Place & state (2)	Contract No. & date (3)	Value of contract (Rs. Lac) (4)	Stipulated period of completion (5)	Value of works * Remaining to be completed (Rs. Lac) (6)	Anticipated date of completion (7)
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* Enclose a certificate from respective Owner / Architect / Consultant

Use the separate sheet if required.

In case of subcontractors for any of the work, submit the above information for all the subcontractors in separate sheets.

1.4) Proposed subcontracts & firms involved in the present work.

Sections of the works	Value of sub-contract	sub- contractor (name & address)	Experience in similar work
*	*	*	*
	*	*	
*	*	*	*
	*	*	
*	*	*	*
	*	*	

1.5) Evidence of access to financial resources to meet the requirements of working capital: cash in hand, lines of credit, etc. List them below & attach copies of support documents.

1.6) Name, address, & telephone, telex, & fax. No. of the bidder's bankers who may provide references if contacted by the Employer.

1.7) Information on litigation history in which the bidder is involved.

Other Part(ies)	Employer	Cause of dispute	Amount involved	Remarks showing present status

LETTER OF ACCEPTANCE CUM NOTICE TO PROCEED WITH THE WORK

Government College of Engineering,

[An Autonomous Institute of Govt. Of Maharashtra]

Vidyanagar, Karad – 415 124

Ph: (02164) 272414, 8275706613

Dated : _____

To : _____ (Name and address of the Contractor)

Dear Sirs,

This is to notify you that your Tender dated _____ for execution of the _____ for the contract price of Rupees _____ (Amount in words & figures), is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of Rs. _____ (Equivalent to 5% of the contract price) within 15 days of the receipt of the letter. The performance security in the form of Bank guarantee or a Bank draft in favour of Principal, Government College of Engineering, Karad, shall be valid till the expiry of the period of maintenance i.e. upto _____. Failure to furnish the performance security will entail cancellation of the award of contract.

You are also requested to sign the agreement from & proceed with the work not later than _____ under the instruction of the engineer, _____ & ensure its completion within the contract period.

With the issuance of this acceptance letter & not furnishing the performance security, within specified time frame, contract for the above said work stands cancelled.

Yours faithfully,

Principal,
Government College of Engineering,
Karad

ARTICLES OF AGREEMENT

- 1) This deed of agreement is made in the form of agreement on _____ day _____ month _____ 20_____, between (the referred to as the **first party**) and _____ (Name of the contractor), S/O _____ resident of _____ (hereinafter referred to as the **second party**), to execute the work of construction of _____ (hereinafter referred to as works) on the following terms & conditions.

2) Cost of contract

This is a Unit Rate Contract. Unit rates quoted by CONTRACTOR shall be applicable for period of Two Years from the date of agreement of this contract. The contract can be terminated at any time at the discretion of the Government College of Engineering, Karad with one month's notice without assigning any reason during the contract period.

3) Payments under its contract:

Payments to the second party for the construction work will be released by the First party in the following manner:-

On delivery of all the equipment's & materials, mobilization of man power at site, 40 % of total amount, on pro-rata basis. Min bill amount should not be less than Rs 10,00,000	:	As per the certified bill of the contractor based on the measurements along with certification of completion to the satisfaction by the First Party
On completion of the work & submission of the completion report approved by the client (i.e. final Bill)		As per the certified bill of the contractor based on the measurements along with certification of completion to the satisfaction by the First Party

4) Payment will be made by the first party:

- a) On the second party submitting an invoice for an equivalent amount along which the certified copy of the bill of quantities & measurements;
- b) On certification of the invoice by the engineer nominated by the first party with respect to quality of works in the format Annexure - 1; and

5) Notice by Contractor to Engineer

The second party, on the works reaching each stage of construction, issue a notice to the first party or the Engineer nominated by the first party (who is responsible for supervising the contractor, administering the contract, certifying the payment due to the contractor, issuing & valuing variations to the contract, awarding extensions of time etc.) to visit the site for certification of the stage completion. Within 15 days of the receipt of such notice,

the first party or the contractor nominated by it, will ensure issue of stage completion certificate after due verification.

6) Completion time

This unit rate contract is for two years from the date of this Agreement. Completion time of works shall be as defined in various work orders under this contract. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both parties.

7) If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period :

- a. The first party does not give access to the site or a part thereof by the agreed period.
- b. The first party orders a delay or does not issue completed drawing, specifications or instructions for execution of the work on time.
- c. Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of from information provided to second party or from visual inspection of the site.
- d. Payments due to the second party are delayed without reason.
- e. Certification for stage completion of the work is delayed unreasonably.

8) Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ 0.5 % of the total work value per week, which will be deducted from payment due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 5% of the contract amount.

9) Duties & responsibilities of the first party

a) The first party shall be responsible for providing regular & frequent supervision & guidance to the second party for carrying out the works as per specifications. This will include written guidelines & regular site visit of the authorized personal of the first party, for checking quality of material & construction to ensure that it is as per the norms.

b) The first party shall apply 3 sets of drawing, specifications & guidelines to the second party for the proposed work.

c) Possession of the site will be handed over to the second party within 10 days of signing of the agreement.

d) The engineer or such other person as may be authorized by the first party shall should

meeting once in a week where a second party or his representative at site will submit the last information including progress report & difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.

e) The engineer shall record his observations/ instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions & promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the engineer's notice, the first party as well as the engineer nominated by it, may instruct stoppage or supervision of the construction rectified at the cost of the second party.

10) Duties & Responsibility of the second party.

The second party shall:

- a) Take up the works & arrange for its completion within the time period stipulated in clause 5;
- b) Employ suitable skilled persons to carry out the works;
- c) Regularly supervise & monitor the progress of work;
- d) Abide by the technical suggestions / direction of supervisory personal including engineers etc. regarding building construction;
- e) Be responsible for bringing any discrepancy to the notice of the representative of the first party & seek necessary clarification;
- f) Ensure that work is carried out in accordance with specifications, drawing & within the total of the contract amount without any cost escalation;
- g) Keep the first party informed about the progress of work;
- h) Be responsible for all security & watch & warned arrangements at site till handing over of the building to the first party
- i) Maintain necessary insurance against loss of material/ cash etc. or workman disability compensation claims of the personal deployed on the works as well as third party claims.
- j) Pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from bill in respect of such taxes as may be imposed as may be under the law)

11) Variations / Extra Items

The works shall be carried out by the second party in accordance with the approved drawing & specifications or directives from the engineer- in- charge. However if, on

account of site condition or any other factors, variations are considered necessary, the following procedure shall be followed:

- a. The second party shall provide engineer with a tender for carrying out the variation when requested to do so by the engineer .The engineer shall assess the tender which shall be given within seven days of the request before the variation is ordered.
- b. If the tender given by second party is unreasonable, the engineer may order the variation & make a change to the contract price which shall be base on engineer's own forecast of the effects of the variation on the contractor's costs.
- c. The second party shall not entitled to additional payment for cost which could have been avoided by giving early warning.

12) Securities

The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer, and denominated in Indian Rupees. The Performance Security shall be valid until a date 28 days from the date of expiry of Defects Liability Period [1 Year] and the additional security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion.

13) Termination

- 13.1) The Employer may terminate the contract if the other party causes a fundamental branch of the contract.
- 13.2) Fundamental branches of contract include, but shall not be limited to the following
 - (a) The contractor has stopped the work for 15 days & stoppage has not been authorized by the engineer.
 - (b) The contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (c) The engineer gives notice that failure to correct a particular defect is a fundamental branch of contact & the contractor fails to correct it within a reasonable period of time determined by the engineer.
 - (d) The contractor does not maintain a security which is required;
- 13.3) Notwithstanding the above, the Employer may term the contract for convenience.
- 13.4) If the contract is terminated the contractor shall stop work immediately, make the site safe & secure & leave the site as soon as reasonably possible.

14) Payment upon Termination

- 14.1 If the contractor is terminated because of a fundamental breach of contract by the contractor, the engineer shall issue a certificate for the value of the work done less advance payment received up to the date of the issue of the certificate, less than other recoveries due in terms of the contract, less taxes due to deducted at sources as per applicable law.
- 14.2 If the contract is terminated at the Employer's convenience, the engineer shall issue a certificate for the value of the work done, the responsible cost of removal of equipment, repatriation of the contractor's personal employed solely on the works & the contractor's costs of protecting & securing the work & less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract & less taxes due to be deducted at source as per applicable law.

15) Dispute settlement

If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual & amicable construction.

In the event of agreement not being reached, the matter will be referred for arbitration by a sole Arbitrator not below the level of retired Superintending Engineer, PWD to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration & Conciliation Act 1996. The decision of the Arbitrator shall be final & binding on both the parties.

Annexure 1

Format of certificate

Certificated that all the works as given in the bill for payment in respect of construction of _____ at _____ have been executed in accordance with the approved drawing & technical specifications & directives from the Engineer-in-charge.

Signature
Name & designation
(Official address)

Place:
Date:

Office seal

Annexure 2

A. Selection Process:

The selection process will be Quality & Cost-Based Selection (QCBS) and will encompass a two-part evaluation viz., (a) Technical and (b) Financial by the Evaluation Committee specifically constituted for the purpose. Evaluation by QCBS will be based on weighted average of the scores of Technical (30 %) and Financial Bids (70 %).

B. Technical Evaluation:

(1) Technical Bid will be evaluated by the Committee based on the point system on the following parameters:

	<i>Maximum Points</i>
i. General background and overall credit / Profile of the Bidder <i>(Threshold: Minimum 10 years: 4 points and 1 addl. point for every addl. year, limited to max. 6 points)</i>	10
ii. Average turnover from execution of work by the agency during the last 3 years <i>(Threshold: Rs. 1 Cr.: 4 points and 2 addl. points for every addl. Cr. of turnover, limited to max. 16 points)</i>	20
iii. Relevant Experience in execution of projects of Auditorium in the past three years for Complete & under construction projects <i>(Threshold: 1 project of Minimum 500 capacity: 10 points and, 2 addl. points for Every 150 additional seating Capacity, limited to max. 30 points).</i>	40
iv. Manpower commitment, dedicated team and team leader comprising experts. Standards, credential and with Certification, prize , awards, etc. The team comprises like , project engineer, design consultant, quantity surveyor, electrical, fabrication, etc. <i>(Threshold: Min. 4 : 16 points and 3 addl. points for every addl. Expert/ credential, limited to max. 14 points)</i>	30
Total Points	<u>100</u>

The Evaluation Committee will award points for each of the above parameters. A minimum score of 70 in the Technical Bid will be required to qualify for opening of Financial Bid. The decision of the Evaluation Committee on short listing the bidders, who qualify technically, will be final & binding on all bidders.

C. Financial Bid Evaluation:

The financial bids of only those bidders, who qualify technically, will be opened and evaluated by the Evaluation Committee. Financial evaluation will be based on maximum 100 points. Lowest Financial Bid will be awarded 100 points. Points for higher bids will

be reduced on pro-rata basis with reference to the lowest bid. An illustration of financial score is given below:

Details	Max. points	Bidders		
		1	2	3
Bid amount	-	40	50	60
Maximum points	100			
Points		100	80	67

Note: The decision of the Evaluation Committee will be final and binding on all the Bidders.

D. Final Selection:

The final selection of the successful bidder will be Quality and Cost Based Selection. For this, both the scores in the technical bid as well as financial bid will be combined to form the basis for final selection. The combined score will consider 30 % weightage for technical competency and 70 % for financial bid. An illustration of the combined score is given below:

Details	Weightage	Bidders		
		1	2	3
Technical score	30 %	65	70	75
Financial score	70%	100	80	67
Combined score (weighted average)		89.5	77	69.4

The top combined score will be the basis for selection of the successful contractor.

E. Post Selection

- (i) The decision of the Evaluation Committee on the technical / financial evaluation will be final. Financial bids of the unsuccessful bidders will be returned unopened.
- (ii) The selected Bidder will be required to enter into a suitable agreement with the Government College of Engineering, Karad.

ANNEXURE - E

GEO-TAGGING CERTIFICATE

It is certified that the following contractor or his representative has visited work site at Govt. college of Engineering Karad. The details are as following:

Company / Contractor Name	
Name of person who visited site	
AADHAR Card of the person who visited the site	
Accompany person name from GCE, Karad.	
AADHAR Card of the Accompany person from GCE, Karad.	
Date	
Time	
Photo	

Note: This document shall be attached in Envelope 1 of the tender document by the CONTRACTOR while submitting this bid.

Signing Authority

(Prof. S V Joshi)
Member Secretary, BWC GCEK

ANNEXURE - F
BILL OF QUANTITY

NAME OF WORK - REFURBISHMENT OF VARIOUS ASSETS AND CONSTRUCT NEW ASSETS (BUILDINGS) AT GOVERNMENT COLLEGE OF ENGINEERING, KARAD, TAL-KARAD, DIST-SATARA					
BILL OF QUANTITY					
Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
1	Excavation				
1.01	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 0.00 to 1.50 m.) By Manual Means	1.00	One Cubic Metre		
1.02	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	1.00	One Cubic Metre		
1.03	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	1.00	One Cubic Metre		
1.04	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Manual Means	1.00	One Cubic Metre		
1.05	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
1.06	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/ murum, ramming, watering including shoring and strutting, dewatering etc. complete (Lift upto 1.50 m) by Mechanical Means.	1.00	One Cubic Metre		
1.07	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 meters beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/ murum, ramming, watering including shoring and strutting, dewatering etc. complete.(Lift from 1.5m to 3.0m) by Mechanical Means.	1.00	One Cubic Metre		
1.08	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming etc. complete. (For all leads and lifts) by Mechanical Means.	1.00	One Cubic Metre		
1.09	Labour charges for removing grass, thorny shrubs, Jungli shrub, Kubabul and alike grass along roadside making the ground clean by showel and phavaras etc. complete.	1.00	One Square Metre		
1.10	Removing grass, gazer grass and disposing off out of building premises including making clean the ground by shovel and phavaras etc. complete.	1.00	One Square Metre		
1.11	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. Layers including watering and compacting etc. complete.	1.00	One Cubic Metre		
1.12	Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.	1.00	One Cubic Metre		
1.13	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	1.00	One Cubic Metre		
1.14	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
1.15	Conveying materials obtained from road cutting including all lifts, laying in layers of 20 centimetre to 30 centimetre breaking clods, dressing to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard proctor density for a lead of over 50 metre to 300 metre inclusive from the site of excavation to the site of deposition as directed.	1.00	One Cubic Metre		
2	Structural Steel Work				
2.01	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	1.00	Metric Tonne		
2.02	Providing structural steel work in hollow section of various thickness and sizes in square, rectangular and round shape from 25mm to 450mm section as per IS 4923 YST 310 Grade produced from iron ore and blast furnace route etc. as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/bolted/ welded connections and painting complete.	1.00	Metric Tonne		
3	Plain Cement Concrete				
3.01	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
3.02	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
3.03	Providing and laying Cast in situ/Ready Mix cement concrete M-15 of trap/granite/quartzite/gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as directed including steel centering, plywood/ steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4	Reinforced Cement Concrete				
4.01	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
4.02	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite/quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.03	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.04	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
4.05	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.06	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.07	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
4.08	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.09	Providing and laying Cast in situ/Ready Mixcement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.10	Providing and laying Cast in situ/Ready Mixcement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
4.11	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including steel centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.12	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite / quartzite / gneiss metal for R.C.C. canopy as per detailed designs and drawings including steel centering, formwork, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete (excluding reinforcement). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.13	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.14	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
4.15	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.16	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / quartzite/granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.17	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / quartzite/granite /gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/ steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
4.18	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap / granite/gneiss / quartzite metal for R.C.C. fins of required thickness in position as shown on the drawings or as directed by Engineer-in-charge including steel centering, plywood / steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.00	One Cubic Metre		
4.19	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	1.00	Metric Tonne		
4.20	Providing and fixing during laying in RCC Slab rectangular 2 mm thick M.S. sheet fan hook box of size 180x100 mm with required depth with holes or notches as required, bottom and top sides of 1.6 mm M.S. sheet fixed with 3.5 mm dia. round headed screws together with 12 mm dia. M.S. bar bent to shape with hooked ends for fan hook and painting to exposed surface	1.00	One Number		
5	Brick Masonry				
5.01	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.	1.00	One Cubic Metre		
5.02	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in plinth as backing in composite masonry including bailing out water manually, striking joints, raking out joints and watering etc Complete.	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
5.03	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	1.00	One Cubic Metre		
5.04	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:4 in half brick thick wall including mild steel longitudinal reinforcement of 2 bars of 6 mm diameter / 2 hoop iron strips 25 mm X 1.6 mm placed at every third course, properly bent and bonded at ends scaffolding, raking out joints and watering etc. complete.	1.00	One Square Metre		
5.05	Providing second class Burnt Brick masonry with conventional / I.S. type bricks in cement mortar 1:4 including scaffolding, raking out joints and watering etc. in pillar of rectangular shapes as shown in the drawings or as directed complete.	1.00	One Cubic Metre		
5.06	Providing fly ash brick masonry with conventional / I.S. type fly ash bricks in C.M. 1:6 in foundation and plinth including bailing out water manually striking joints, raking out joints watering and scaffolding etc. complete.	1.00	One Cubic Metre		
5.07	Providing fly ash brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	1.00	One Cubic Metre		
5.08	Providing Second class fly ash brick masonry with conventional / I.S. type bricks in cement mortar 1:4 in half brick thick wall including mild steel longitudinal reinforcement of two bars of 6 mm diameter / two hoop iron strips 25 mm x 1.60 mm at every third course, properly bent and bounded at ends scaffolding raking out joints and watering etc. complete.	1.00	One Square Metre		
5.09	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	1.00	One Cubic Metre		
5.10	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in Half brick thick wall including striking joints, raking out joints and scaffolding etc. Complete. (The test shall be carried out conforming to IS:6441 (Part I) - 1972)	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
6	Stone Masonry				
6.01	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.	1.00	One Cubic Metre		
6.02	For old Rubble (Above Rate after Deduction of basic rate of Rubble stone)	1.00	One Cubic Metre		
6.03	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stone in cement mortar 1:3 in basement with patent water proofing compound added to it at rate of 1Kilogramper bag of cement including bailing out water manually, scaffolding racking out joints when plastering is to be done and watering etc. complete.	1.00	One Cubic Metre		
6.04	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure including racking out joints when plastering is to be done / striking joints when no plastering is to be done on inside watering and scaffolding etc.complete.	1.00	One Cubic Metre		
6.05	Providing coursed rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually , striking joints inside and raking out joints from outside and watering etc.complete	1.00	One Cubic Metre		
6.06	Providing coursed rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure including raking out joints when plastering is to be done and striking joints when no plastering is to be done on the inside, watering scaffolding etc.complete.	1.00	One Cubic Metre		
6.07	Providing coursed rubble masonry first sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external work of plinth including bailing out water manually, striking joints inside and watering etc.complete.	1.00	One Cubic Metre		
6.08	Providing coursed rubble masonry first sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in superstructure including racking out joints on the inside when plastering is to be done, watering and scaffolding etc. complete.	1.00	One Cubic Metre		
6.09	Providing coursed rubble masonry first sort for pillars of trap / granite / quartzite / gneiss stones in cement mortar 1:6 including pointing with cement mortar 1:3 scaffolding and watering etc.complete.	1.00	One Cubic Metre		
6.10	For old Rubble (Above Rate after Deduction of basic rate of Rubble stone)	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
7	Expansion Joint				
7.01	Providing expansion joints in reinforced cement concrete framed structure (interior columns) with plain premoulded filler with confirming to IS 1838,1961, 25 mm thick with 75 mm wide and 1 mm thick stainless steel plate finishing etc. complete as directed	1.00	One Square Metre		
7.02	Providing expansion joints in R.C.C. framed structure (exterior column) with plain premoulded filler 25 mm thick with 75 mm wide and 1 mm thick stainless steel plate and finishing etc. complete.	1.00	One Square Metre		
7.03	Providing expansion joints in R.C.C. framed structure (at floor level) with plain premoulded filler 25 mm thick with 75 mm wide and 1 mm thick stainless steel plat and finishing etc. complete.	1.00	One Square Metre		
7.04	Providing expansion joints in R.C.C. framed structure (at Terrace level) with premoulded filler 25 mm thick with 40 mm wide and 1 mm thick stainless steel plate as required, bitumen poured filler and finishing etc. complete as directed.	1.00	One Square Metre		
8	Water Proofing				
8.01	Providing and laying damp proof course 50 mm thick in M20 cement concrete layer and bitumen / using cement with waterproofing compound curing, formwork etc. complete.	1.00	One Square Metre		
8.02	Providing leak proof treatment by Injection grouting method to old floor without removing tiles of W.C., bath, with cement sand proportion of 1:1.5 and waterproofing compound at 2 Kilogram/bag of cement mixed in 35 liters of water including drilling holes in required position grouting with above mixed solution and ceiling etc. complete.	1.00	One Litre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
8.03	Providing cement based water proofing treatment to terraces (Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1Kilogramper bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300 mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/- including ponding test etc. complete.	1.00	One Square Metre		
8.04	Providing water proof bedding for flooring of Bath and WC 25 mm thick in C.M. 1:3 including using approved water proofing compound in specified proportion as per manufacturers specifications for per bag of cement including leveling, curing and covering 10 years guarantee on court fee stamp paper of Rs.500/- including ponding test etc. complete.	1.00	One Square Metre		
8.05	Providing waterproof plaster in W.C. and bath 12 mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete. (Excluding Tiles) (As directed by Engineer in Charge)	1.00	One Square Metre		
8.06	Removing the tar or coba and disposing of the material as directed etc. complete.	1.00	One Square Metre		
8.07	Providing and applying water proofing treatment using acrylic polymer modified cement based water proofing coating with fibre glass mesh mixing at the rate of powder to liquid (2:1) by weight covering 9 to 10 Square Metre /Kilogram with two coat using approved chemicals for masonry and concrete surface by brush covering 7 years guarantee on Stamp Papers etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
8.08	Providing and applying a base coat comprising of 1KilogramPolydee-MC and 1Kilogramfresh cement after wetting the surface followed by drying the surface for 2 days, apply primer coat of TP-40 and after drying, applying Polydee-11 two component (mixing ratio 2 A : 1 B)) Antibacterial food grade coating inside drinking water tank in two coats with time interval of minimum 8 hrs. covering 7 years guarantee on Court Fee Stamp Paper of Rs. 100/- etc. complete.	1.00	One Square Metre		
8.09	Providing and laying perforated PVC 160 mm dia pipe in proper line,leveland slope including necessary material fitting etc. complete.	1.00	One Running Metre		
8.10	Providing and applying required coats of a water based UV resistant Evercrete Top Seal sealant to protect natural stone, bricks, concrete and wooden structures from water intrusion and staining due to water penetration and algae formation etc complete	1.00	One Square Metre		
8.11	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete.	1.00	One Cubic Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
8.12	Providing Water proofing treatment to old terraces by removing existing treatment, sealing of cracks by non shrink crack fill compound applying first coat of polymer modified semi-viscous paste prepared by mixing polymer of approved make and Cement in 1 : 2 proportion (1 litre polymer : 2 Kg Cement) to a neatly cleaned and dust free concrete surface and upto 300 mm over parapet wall prepared by removing loose and deposited material with brush and water, followed by a coat of flexible cementious coating eg. MYK-Aqufine U.M., EL Monobond or equivalent as per manufacturer specification after laying glass fibre mesh of 10 x 10 specification of approved make over tacky surface of first coat of polymer followed by second coat in transverse direction, sprinkling coarse sand over it, followed by protective mechanical cover of 20 mm water proof plaster after sufficient curing 40 to 75 mm IPS 1:2:3 proportion using coarse aggregate of 10 MSA and water proofing compound and polypropylene fibres @ 125 gm per bag of cement within it conforming to IS in pannels making groove 3 to 4 mm wide & 10 mm deep & 3m/4m or as per site condition & filling the joints with polt sulphide sealant after curing, including providing holler with drip moulds at the junction and finishing the concrete surface with neat cement slurry including curing as directed and ponding the surface as directed etc. complete; covering 10 years guarantee against leakproofness on Court Fee Stamp Paper of Rs. 100/-	1.00	One Square Meter		
9	Plastering and Pointing				
9.01	Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:3 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	1.00	One Square Metre		
9.02	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.	1.00	One Square Metre		
9.03	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete.	1.00	One Square Metre		
9.04	Providing internal cement plaster 20 milimetre thick in single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	1.00	One Square Metre		
9.05	Providing internal cement plaster 20mm. thick in Single coats in cement mortar 1:3 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
9.06	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	1.00	One Square Metre		
9.07	Providing neeru finish to plastered surfaces in all positions including scaffolding and curing etc. complete.	1.00	One Square Metre		
9.08	Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing etc. complete.	1.00	One Square Metre		
9.09	Providing patti/ band 100mm wide on plastered surface 12 mm to 15 mm thick in C.M. 1:3 line and level including neat finishing scaffolding curing etc. complete.	1.00	One Running Metre		
9.10	Providing patti/ band 150mm wide on plastered surface 12 mm to 15 mm thick in C.M. 1:3 line and level including neat finishing scaffolding curing etc. complete.	1.00	One Running Metre		
9.11	Providing and fixing chicken mesh of 22 gauge, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or tying by binding wire etc. complete.	1.00	One Running Metre		
9.12	Providing and applying plaster with plaster of paris in 6mm thickness to previously plaster surface in all position including preparing the surface scaffolding etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
9.13	Providing and applying laying Aggregate plaster in granite/ marble stones, as decorative finish to give granite/ marble like appearance to concrete, brick or block surfaces in all position including preparation of surface smoothly, evenly by racking of joints in case of Brick or block work including backing layer of 12 milimetre thick with cement mortar 1:3 with 2 percent integral cement water proofing compound, roughening for wall keying hardening and drying the surface for a minimum five days gaps including second coat of cement lime mortar into a proportion 1:4 preparing the surface for three coat of marble finish plaster giving a thin coat of white cement and two parts of course calcite powder, applying the mortar with steel float on the surface in proper evenness applying at coat of white cement and lime to set a smooth finish then applying a thin coat of slurry made of white cement and black oxide colour in required proportion by the steel float to get black streaks on the surface and curing the surface for two days including all materials and labour etc. complete.	1.00	One Square Metre		
9.14	Providing and applying gypsum plaster (with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface / or on newly brick surface (Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete.	1.00	One Square Metre		
9.15	Providing and applying Texture plaster with finishing with texture material of approved make in 3 to 4 millimeter thickness on previously plastered surface, including Plaster Groove 6mm thickness or Tape Grooves 35 to 45 mm thickness or as required, in all position including preparing the surface, scaffolding etc. complete.	1.00	One Square Metre		
9.16	Removing the existing cement plaster of any thickness without causing dust nuisance and stacking the debris upto a distance of 50 metres or spreading in the compound and cleaning the site etc. complete.	1.00	One Square Metre		
9.17	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete.	1.00	One Square Metre		
9.18	Providing groove to required size at specified location as directed by Engineer, at junction of brick masonry wall and R.C.C beams or Column, at junction of composite masonry, including scaffolding, finishing, curing etc. complete.	1.00	One Running Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
10	Paving Flooring and dado				
10.01	Providing and laying Polished Shahabad Stone flooring 25mm to 30mm thick and required width wide in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, filling joints, with neat cement slurry, curing, polishing and cleaning etc. complete.	1.00	One Square Metre		
10.02	Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	1.00	One Square Metre		
10.03	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.	1.00	One Square Metre		
10.04	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite	1.00	One Square Metre		
10.05	Providing and fixing black kadappa stone as shelves 25mm. thick machine polished, extending the polish upto 20 cm width on lowerside, rounding corners, laying in position jointing with bedding cement mortar 1:4 proportion curing etc etc. complete.	1.00	One Square Metre		
10.06	Providing and laying ceramic tiles of having size 30 cm. x 30 cm. and confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.	1.00	One Square Metre		
10.07	Providing and laying ceramic tiles having size 30 cm. x 45 cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.	1.00	One Square Metre		
10.08	Providing and laying ceramic tiles having size 30 cm. x 60 cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
10.09	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	1.00	One Square Metre		
10.10	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	1.00	One Square Metre		
10.11	Providing and laying in position flooring of telephone black / Amba White / Cat bary brown / Ruby red / Ocean Brown granite stone of approved shade and size 18 mm to 20 mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete.	1.00	One Square Metre		
10.12	Providing and fixing machine cut machine polished 18 mm to 20 mm thick telephone black / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone for treads and risers of steps and staircases of approved colour and shade with full moulding and three grooved line for the treads on bed of 1:4 Cement mortar including float filling joints with neat cement slurry curing polishing and cleaning etc. complete.	1.00	One Square Metre		
10.13	Providing and fixing machine cut mirror polished 18 mm to 20 mm thick telephone black granite / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone partition with full moulding the edges etc. complete . Both side polish	1.00	One Square Metre		
10.14	Providing and fixing machine cut mirror polished 18 mm to 20 mm thick telephone black / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone partition with full moulding the edges etc. complete. One side polish	1.00	One Square Metre		
10.15	Providing and preparing kitchen otta up to 75 cm width,made up from 30 mm thick and 75 cm high vertical support for kadppa at 1 m. c/c of 25 mm thick both side polished kadappa middle shelf and bottom of 20 mm thick one side polished kadappa with facia patti of 20 x 50 mm kadappa including all material labour cutting fixing with cement mortar and araldite curing polished and cleaning etc. complete.	1.00	One Square Metre		
10.16	Providing and laying vitrified mirror / glossy finish tiles decorative type having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
10.17	Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete	1.00	One Square Metre		
10.18	Providing and laying vitrified matt finish tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	1.00	One Square Metre		
10.19	Providing and laying vitrified matt finish tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	1.00	One Square Metre		
10.20	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 millimetre thickness of having a strength of 300 kilogram per square centimetre of approved quality and shape on a bed of crushed sand of 25 to 30 millimetre thick including skirting joints and cleaning etc. complete	1.00	One Square Metre		
10.21	Providing and fixing heavy duty inter locking concrete RUBBER MOULD GLOSSY PAVING BLOCKS of 60 millimeter thickness of having a strength of 400 Kilogram/sq.m of approved quality and shape on a bed of crushed sand of 25 to 30 millimeter thick including striking joints and cleaning etc. complete. (using 100% crushed sand)	1.00	One Square Metre		
10.22	Providing and fixing heavy duty inter locking concrete Rubber mould glossy paving blocks of 80 mm thickness of having a strength of 400 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete. (using 100% crushed sand)	1.00	One Square Metre		
10.23	Providing and laying Vitrified mirror/glossy finish having decorative type of size 590 millimeter to 605 millimeter x 590 millimeter to 605 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc . complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
10.24	Providing and laying Vitrified MATT finish having decorative type of size 600 millimeter x 600 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS 15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc .complete.	1.00	One Square Metre		
10.25	Providing and laying chequered tiles of approved quality of size 30 cm x 30 cm, confirming to corresponding I.S. for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete.	1.00	One Square Metre		
10.26	Providing and laying Antiskid Ceramic tiles of approved quality of size 30 cm x 30 cm and confirming to IS 15622-2006 (Group-B IIA) for antiskid flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete.	1.00	One Square Metre		
10.27	Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete.	1.00	One Square Metre		
10.28	Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25 mm to 30 mm thick fixed on base on plaster of cement mortar 1:4 including cement float, filling joints with cement slurry, curing rubbing, polishing and cleaning complete.	1.00	One Square Metre		
11	Wood Finish				
11.01	Providing and applying French polish for required finish on previously polished wood including knotting, preparing the surfaces, scaffolding etc. complete as directed	1.00	One Square Metre		
11.02	Providing and applying french polish to new wood work, for required finishing including. knotting, preparing the surfaces, scaffolding etc. complete as directed.	1.00	One Square Metre		
11.03	Providing and applying melamine polish of required finish to the wood work by spray machine including knotting and preparing the even surface by scraping, applying French polish , scaffolding if required etc. complete. Note:The work to be executed on prior approval of Superintending Engineer will be necessary.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
12	Oil Painting and Colouring				
12.01	Providing and applying two coats of lead/zinc base oil paint/ bituminous paint of approved colour to new structural steel work and iron work in buildings including scaffolding if necessary, cleaning and preparing the surface etc. complete. (excluding primer coat).	1.00	One Square Metre		
12.02	Providing and applying two coats of flat oil paint of approved colour to the old structural steel work and iron work previously painted in building including scaffolding, if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	1.00	One Square Metre		
12.03	Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	1.00	One Square Metre		
12.04	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	1.00	One Square Metre		
12.05	Removing old paint from steel and other metal surfaces and making the surfaces even with hand scrapping, scaffolding etc. complete.	1.00	One Square Metre		
12.06	Providing and applying priming coat on concrete/ masonry/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.	1.00	One Square Metre		
12.07	Providing and applying pearl/ luster finish paint of approved colour and shade to the existing plaster surface including scaffolding, preparing the surface, applying the acrylic wall putti etc. complete.	1.00	One Square Metre		
12.08	Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning, preparing the plaster surfac, applying primer coat, scaffolding if necessary, and watering the surface for two days etc complete.	1.00	One Square Metre		
12.09	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
12.10	Providing and applying colour-wash of approved colour and shade in one coat to new surface including scaffolding, brushing and brooming down (excluding base coats of white wash) etc. complete.	1.00	One Square Metre		
12.11	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces. (excluding the primer coat.)etc. complete.	1.00	One Square Metre		
12.12	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.	1.00	One Square Metre		
12.13	Providing and applying interior wall finish luster of Asian/ Berger/ Nerolac/ Dulux Paints or equivalent make on internal wall surface as detailed below Scrapping the surface with emery paper and wipe clean. Applying Asian/ Berger/ Nerolac/ Duuex Paints or equivalent wall primer with brush with mineral turpentine with brush 8 to 10% and oil 15 to 20% with roller and allowing to dry for a period 6 to 8 hours. Applying Asian/ Berger/ Nerolac/ Dulex Paints or equivalent Acrylic wall putty with appropriate proportion of water allowing to dry for period 4 to 6 hours. Scrapping with Emery paper 180 and wipe clean. Applying Asian/ Berger/ Nerolac/ Dulux Paints or equivalent wall primer with brush with mineral turpentine 8 to 10% and oil 15 to 20% with roller Scrapping Emery paper 320 and wipe clean, Applying Asian/ Berger/ Nerolac/ Dulux Paints or equivalent interior wall finish luster 1st coat with brush/ rubber/ spray with mineral turpentine 7 to 9% and Oil with roller 19 to 21% After 8 hours of activity Applying 2nd coat of Asian / Berger / Nerolac / Dulux Paints or equivalent interior wall finish Lustre with mineral turpentine 7 to 9 % with brush and Oil with roller 19 to 21% after allowing dry for the period of 6 to 8 hours activity (With prior approval of S.E.).	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
12.14	Providing and applying Royale Luxury Emulsion of approved make on internal wall surface as detailed below Scrapping for surface with emery paper and wipe clean for area. wall primer with brush by adding mineral turpentine oil by 8 to 10 % or water by 15 to 20% allowing to dry for 6 to 8 hoursAfter applying acrylic wall putty with appropriate prpportion of water of allow to dry for period of 4 to 6 hours of activity. Scrapping with emery paper and wipe clean Applying paints Royale Luxury emulsion 1st coat with brush water content water 40 to 45% or 65 to 70% by role Applying paints Royale luxury emulsion 2nd coat with brush with water content 40 to 45% or 65 to 70 % by roller. (With prior approval of S.E.)	1.00	One Square Metre		
12.15	Providing and applying two coats Apex Ultima Puranature Anti-Pollution Or equivalent approved brand, paint should decomposes organic substances and inorganic gases(NOx, VOC's, CO, SOx, formaldehydes, etc.) in presence of natural or artificial light. It contains Graphene and nanoparticles of ium oxide. and Absorbs CO2 (4.8 kg/15 l). plaster crack should be filled by Acrylic base Crack seal/Textured Crack filler, Paint has to applied on one coat of Apex Ultima Puranature Anti-Pollution Primer or Equivalent. Warranty Should be given by the Manufaturer The work should be done by the Manufacturer Recommended applicator and he should be able to furnish stage wise onsite technical reports from the concerned company technologist.	1.00	One Square Metre		
13	Wood Work & Roofing and Ceiling				
13.01	Providing and fixing teak wood hand rail of 60 mm x 75 mm as per detailed drawings or as directed by the Engineer, including french polishing, etc. complete.	1.00	One Running Metre		
13.02	Providing and fixing <u>Indian</u> teak wood eaves boards 15 cm wide and 25 mm thick plain decorative type including scaffolding and painting with two coats etc. complete.	1.00	One Running Metre		
13.03	Providing and fixing shutter to wall cupboard consisting of Teak Wood styles and rail 25 milimetre thick and 75 milimetre wide with panel insert of 12 milimetre thick particle board with one approved coloured laminated face on one side 1.5 milimetre thick, bonded with phenol formadehyde synthetic resin including lipping beading iron oxidised fixtures and fastening and oil primer coat complete. (Excluding cupboard frame)	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
13.04	Providing and fixing Mangalore tiled roofing with class 'AA' tiles including securing the last course of tiles near the eaves with steel flat 40 mm x 3 mm and 1.22 mm wire fixing 50 mm x 25 mm horizontal teak wood battens and iron works and oiling the battens etc. complete. (Excluding ridge and hip tiles).	1.00	One Square Metre		
13.05	Providing and fixing Mangalore tiled roofing with class 'AA' tiles including securing the last course of tiles near the eaves with steel flat 40 mm x 3 mm and 1.22 mm wire fixing country teak wood sloping battens of 25 x 12 mm teak wood horizontal battens of 50mm x 25mm over the slopping battens, all iron work and coal tarring the battens etc. complete (Excluding ridge and hip tiles).	1.00	One Square Metre		
13.06	Providing and fixing Mangalore tile ridge and hip tiles of class 'AA' including scaffolding if necessary, pointing with coloured cement mortar and curing etc. complete.	1.00	One Running Metre		
13.07	Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws and bolts, lead and bitumen washers as per drawing etc. complete.(Weight of 5.5 Kilogram/sq.m.).	1.00	One Square Metre		
13.08	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 Kilogram/sq.m.).	1.00	One Square Metre		
13.09	Removing and resetting Mangalore tiles from roof including refixing loose battens etc. complete.	1.00	One Square Metre		
13.10	Removing the tiles, battens and dungry cloth purlins, rafters and ridges etc. from roof, sorting out the serviceable and unserviceable materials and stacking the same as and where directed in the compound, scaffolding etc. complete.	1.00	One Square Metre		
13.11	Removing G.I. or A.C. sheet roofing including purlins, principal rafters etc. including sorting serviceable and unserviceable materials, stacking the same as and where directed in the compound including scaffolding etc. complete.	1.00	One Square Metre		
13.12	Providing fixing <u>country</u> teak wood battens 50 mm x 25 mm for Mangalore tile roof work with all iron work scaffolding and oiling the battens etc. complete.	1.00	One Running Metre		
13.13	Providing fixing teak wood battens 25 mm x 12 mm for Mangalore tile roof work with iron work scaffolding and oiling the battens etc. complete.	1.00	One Running Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
13.14	Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/ One Square Metre)	1.00	One Square Metre		
13.15	Providing and fixing of colour coated Zinaluminium(R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated withAluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyster paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mmexterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with sublet square fluting in the five pan at nominal 180-250 mmcenter- to-center. The end rib shall be designed for anti-capacity groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/ One Square Metre) 600 mm girth (Surface Width).	1.00	Running Meter		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
13.16	Providing and fixing UPVC Roof made up of 3 layers roofing material of thickness 2mm having width of 1130 mm and of required Length having Tensile strength not less than 330 Kilogram/cm ² , including fastening with self drilling screw having washers made of stainless steel etc. complete.	1.00	One Square Metre		
13.17	Providing and fixing PVC coloured Ridge tiles over UPVC roofing where required having size 113cm x 41cm for ridge including fastening with self drilling screw having washers made of stainless steel etc. complete.	1.00	One Running Metre		
13.18	Providing and fixing in position Gypsum board false ceiling with 12.5 mm thick Gypsum boards, screwed/fixd to the under structure of suspended G.I. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50 mm maximum center to center distance of 600 milimetre perimeter channel and intermediate channels at maximum center to center distance 1200 milimetre galvanized grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete.	1.00	One Square Metre		
13.19	Providing and fixing Modular false ceiling of 600 x 600 mm center to center and 13 mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 1/2" (50 mm x 40 mm) weighing 0.39 Kilogram/m at 60 cms center center and fixed with 1/2" x 1/2" (15 x 15 mm) flanges weighing 0.19 Kilogram/m suspended on 6 mm dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams including rounding of the edges with alluminium T of 2" x 1 1/2" (50 mm x 40 mm) weighing 0.39 Kilogram/m etc. (all alluminium sections shall be anodized) including all labour, material, lifts etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
13.20	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively, VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by engineer in charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc, washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer - in-charge.	1.00	One Square Metre		
14	Doors and Windows				
14.01	Providing and fixing frame with / without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete	1.00	One Cubic Metre		
14.02	Providing and fixing Country cut teak wood double or single leaf panelled shutters, 35 mm thick style top and freeze rail 95 x 35 thick with lock and bottom rail 195 x 25 mm thick and panels without ventilator as per detailed drawing excluding the door frame, stainless steel fixtures and fastening and finishing the wood work with oil painting 3 coats complete	1.00	One Square Metre		
14.03	Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete.	1.00	One Square Metre		
14.04	Providing and fixing solid core flush door shutter commercial in single leaf 32 mm thick without ventilator commercial type of exterior grade as per detailed drawings with wrought iron hold fast, stainless steel fixtures and fastenings and handles on both sides and finishing with oil painting 3 coats complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
14.05	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical gear)	1.00	One Square Metre		
14.06	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)	1.00	One Square Metre		
14.07	Providing and fixing collapsible steel gate in one / two leaves with hot rolled vertical channels of 18 x 9 x 3 mm minimum size, crossings of M.S. flats of size 18 x 5 mm T or E section for runner of minimum 40 x 6 mm size for flange, M.S. flat for top runner of minimum size 40 x 12 mm with roller wheels conforming to grade F.G. 150 fitted with snap headed rivets of minimum size 6 mm max. spacing of vertical channels be 100 mm enclosed gate position and clear space of 150 mm between two sets of crossings with hold fasts, stoppers, spaces, handles, locking arrangement and one coat of red lead primer and oil painting etc. complete. (I.S. 105211983).	1.00	One Square Metre		
14.08	Providing and fixing sheet glass of 24 oz. for all size including putty etc. complete	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
14.09	Providing and fixing M.S. grill door 24 Kilogram/One Square Metre of various size as per detailed drawings without hot dip coating, iron fixtures and fastenings and 3 coats of oil painting etc	1.00	One Square Metre		
14.10	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 Kilogram/One Running Metre. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 Kilogram/One Running Metre. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 Kilogram/One Running Metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/One Running Metre. And handle section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. With powder coating with box	1.00	One Square Metre		
14.11	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 Kilogram/One Running Metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/One Running Metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With powder coating with box	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
14.12	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 Kilogram/One Running Metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/One Running Metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With powder coating without box	1.00	One Square Metre		
14.13	a) Supplying and fixing in position Aluminium four track sliding windows with outer frame made from section of over all size 122 mm x 45 mm, bottom section with drain section track weighing 1.83Kilogramper metre and top and side section of size 122x 31.75 mm weighing 1.15Kilogramper One Running Metre with shutter sections made of 18 mm x 40 mm size having average weight of 0.6Kilogramper One Running Metre (or as required size) with change in proportionate weight, with 6 mm float glass in three equal panels and alluminium coated stainless steel mosquito net in one (2/3 of opening) panel fixed with new neoprene gasket, shutters to be provided with nylon encased stainless steel rollers, necessary locks and handles complete. Powder Coated	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
14.14	Providing and Fixing 30 MM thick BOTH SIDE PRELAMINATED SOLID PANEL PVC DOOR SHUTTER consisting of frame made out of M.S tubes of 19 guage thickness and, size 19 x 19 mm for styles and 15 x15 mm for the top and bottom rails, M.S frame shall have a coat of metel primer of approved make and manufacture. M.S frame shall be covered with heat mouled PVC 'C' channel made from 5 mm (+/0.25) thick prelaminated sheet of density 600 Kilogram/cbm ,of size 30mm thickness 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45° angle on either side forming stiles ; and 5 mm thick ,95 mm wide PVC sheet out of which 75 mm shall be falt and 20 mm shall be tapered in 45 on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be falt and 20 mm shall be tapered on both sides to form lock rail.Top,bottom and lock rail shall be provided either side of the panel. An additional 5 mm (+/0.25) thick PVC strip of 20 mm width is to be stuck on the bottom side of the ' c ' channel prelaminated paneling of 5 mm (+/0.25) thick PVC sheet to be fitted inside the M.S. frame welded/ sealed to the styles and rails with 5 mm (+/0.25) x 30 mm PVC sheet beading on either side and joined together with solvent cement adhesive etc ,10 mm thickness (5 mm (+/0.25) x 2 nos) 20 mm wide cross PVC sheet as gap insert for the rail and bottom rail. Door to be fixed to frames with 3 nos M.S.powder coated butt hinges of size 100 mm x 25MM x 10MM	1.00	One Square Metre		
14.15	Providing and fixing cold rolled steel hollow door frame 105 milimetre x 60 milimetre for any sizes including hold fast hinges, tie members with red oxide and grey paint complete as per Indian Standard Institute specifications and code of practice prescribed including anticorrosive treatment complete.	1.00	One Running Metre		
14.16	Providing and fixing in position aluminium partly openable and partly fixed window of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening with 5 mm thick float glass etc. complete. b) With powder coating Note While arriving at the rate of item of item weight at 6.90 Kilogram/ One Square Metre is considered.	1.00	One Square Metre		
14.17	Providing and fixing fibre glass reinforced polyster door shutter 35 milimetre thick as per IS 14856 (2000) (reaffirmed 2006) without ventilator including chromium plated fixtures and fastening with chromium plated handles on both sides, complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
14.18	Providing and fixing 24 gauge plain aluminium sheet on the face of door shutter including cutting to required size and fixing the screws including making good the damages if any to existing door shutter and frame complete as directed or as per detailed drawing.	1.00	One Square Metre		
14.19	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete.	1.00	One Square Metre		
14.20	Providing and fixing partitions made up of CCTW frame of size 75 mm x 50 mm at 60 cm c/c with 9 mm thick commercial ply and 4mm thick veneer on both sides with French polish etc. complete.	1.00	One Square Metre		
14.21	Providing and fixing Country cut teak wood partly veneered and partly glazed partition with 75 mm x 50 mm frame at 60 cm center and 9 mm thick commercial ply on both sides, decorative veneer of 4 mm thick and plain glass 5 mm thick, including French polishing etc.complete	1.00	One Square Metre		
14.22	Providing and fixing in position anodised extruded aluminum partitions, partly glazed and partly laminated having frame made out of extruded tubular section of size 40 mm x 60 mm with 12 mm thick three layered flat pressed teak wood particle board bonded with BWP type exterior grade phenol formaldehyde synthetic resin conforming to IS 128231990, laminated on both sides, Novateak or equivalent and 5 mm thick selected quality plain/ float glass panels fixed with aluminum glass clips 12 mm x 12 mm and rubber cushioning beading to glass partitions as per approved drawing etc. compete	1.00	One Square Metre		
14.23	Providing and fixing in position extruded aluminium partitions having frame made out of extruded tubular section of size 65 mm x 40 mm with 12 mm thick three layered flat pressed teak wood particle board bonded with BWP type exterior grade phenol formaldehyde synthetic resin conforming to IS 129231990, laminated on both sides, Novateak or equivalent with aluminium glazing clips of size 12 mm x 12 mm (conical) as per drawing etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
14.24	Providing and fixing fly proof mesh shutter to ventilator / window using CCTW members of size 45 x 22 mm for frame work and 35 x 22 mm for middle support and fixing fly proof mesh on it and covering TW battens of size 20 x 10 mm including priming and two coats of oil painting to the new wood and steel work and all labour charges including all fixture and fastenings etc. complete	1.00	One Square Metre		
14.25	Providing and fixing in position anodised (as per IS 1868/1982) Aluminium fixed staggered (Z Type) Ventilator with aluminium rectangular pipe 63 mm x 38.10 mm x 1.22 mm at weight 0.650 Kilogram/One Running Metre, Aluminium angle of size 15 mm x 15 mm x 1 mm, aluminium channel of 9 mm sizes, S.S. mosquito net of 304 Grade, 4 mm thick float glass per detailed drawing and as directed by Engineer in charge etc. complete.	1.00	One Square Metre		
14.26	Providing and fixing 30mm thick PVC FLUSH L DOOR SHUTTER consisting of panel of hollow PVC profile of 20 mm thickness consisting frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm inserted inside the hollow section of stiles rails top and bottom rails and two 19x 19 mm MS tubes inserted horizontally inside the hollow profile section using 4/5 mm sheet using screws hollow profile shall be lipped with 10 mm (5mm x 2) thick x 20 mm width on stiles and rails using solvent cement. The inner panel shall be laminated with 5mm thick termite proof waterproof plain / prelam PVC sheet using solvent cement on the both sides of the panel including stainless steel fixtures and fastening etc. Complete as per direction of Engineer in charge, manufacturers specification and drawing.	1.00	One Square Metre		
14.27	Providing and fixing solid core flush door shutter in double leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete.	1.00	One Square Metre		
14.28	Providing and fixing Country teak wood Four leaf paneled shutters, 35 milimetre thick style and rail and 25 milimetre thick panels without ventilator as per detailed drawing excluding the door frame, stainless steel fixtures and fastening and finishing the wood work with oil painting 3 coats complete	1.00	Square Meter		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
14.29	Providing and fixing 37 mm thick factory made PVC Door shutter , styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 29 mm x 31 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.	1.00	Square Meter		
15	Iron Work				
15.01	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.	1.00	One Square Metre		
15.02	Providing and fixing mild steel grill work for windows, ventilators, etc. 15 Kilogram/ One Square Metre as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.	1.00	One Square Metre		
15.03	Providing and fixing mild steel grill railing 20 Kilogram/sq.m with teak wood hand rail of size 75mm x 60 mm.and sill of 75mm.x 25 mm.and newel posts for staircases, including fabricating, fix-tures, erecting, painting the grill work with one coat of anti-corrosive paint and two coats of oil painting with approved colour and polishing the sill, hand rail and the newel post with french polish.	1.00	One Square Metre		
15.04	Providing and fixing mild steel grill railing 15 Kilogram/sq.m with Ghanateak wood hand rail of size 75mm x 60 mm and sill of 75mm.x 25mm and newel posts for staircases, including fabricating, fixtures, erecting, painting the grill work with one coat of anticorrosive paint and two coats of oil painting with approved colours and polishing the sill, hand rail and the newel post with french polish.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
15.05	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentric Deleted ire 0.75 mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.	1.00	One Running Metre		
15.06	Providing and fixing 900mm high S.S.304 Grade Stainless steel railing with 40mm diameter and 1.5mm thick at top, 40mm diameter and 1.5mm thick vertical supports spaced at 1.5m center to center and 8mm thick toughened glass including fabricating, fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete	1.00	One Running Metre		
15.07	Providing and Fixing mat finish stainless steel (of 302 grade) railing with top pipe of 50 mm dia. and vertical pipe of 38 mm dia at 0.60 m c/c or as required and horizontal pipes of 25 mm dia in three rows, all pipes of 2 mm thick including buffing,fabricating fixtures and fastening including pipe base of appropriate diameter and ball base of 75 mm dia above newel post of 75 mm diameter etc. complete (Prior approval of sample and brand by Ex.Engineer is necessary before use)	1.00	One Running Metre		
15.08	Providing and fixing mild steel grill railing weighing 15Kilogram/ One Square Metre. with teak wood hand rail of size 75mm.x 60mm. and sill 75mm.x 25mm.and posts for verandah including fabricating, fixtures, erecting and painting the grill work with one coat of anticorrosive paint and two coats of oil paint and polishing the grill, hand rail with French polish. Spec. One Number : Bd.U.3	1.00	One Square Metre		
16	Water Supply and Sanitary Fitting				
16.01	Providing and fixing 15 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete.	1.00	One Number		
16.02	Providing and fixing screw down 15 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete	1.00	One Number		
16.03	Providing and fixing screw down 25 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete	1.00	One Number		
16.04	Providing and fixing screw down 32 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	1.00	One Number		
16.05	Providing and fixing screw down 40 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.06	Providing and fixing screw down 50 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete.	1.00	One Number		
16.07	Providing and fixing 15mm diameter concussion push button type brass/gun metal self- closing tap including necessary socket complete.	1.00	One Number		
16.08	Providing and fixing White Glazed Earthenware full stall type Urinal with P.V.C. flushing cistern of 5 liters capacity with fitting, inlet pipes and stop tap, brackets for fixing the cistern, 32 mm dia. P.V.C flush pipe with fittings and flushing arrangement including lead soil pipe, lead trap, soil pipe connection up to the outside face of the wall	1.00	One Number		
16.09	Providing and fixing White Glazed Earthenware Squatting plate (Ladies Urinal) with P.V.C. flushing cistern of 5 liters capacity with fitting, inlet pipes and stop tap, brackets for fixing the cistern, 32 mm dia. P.V.C flush pipe with fittings and flushing arrangement including lead soil pipe, lead trap, soil pipe connection up to the outside face of the wall	1.00	One Number		
16.10	Providing and fixing white glazed earthenware Wash Hand Basin of 55cm. x 40 cm. size including cold water pillar tap/cold and hot water pillar tap brackets, rubber plugs and brass chain, stop tap and necessary pipe connections including P.V.C. waste pipe and trap up to the outside face of the wall. Making good the damaged surface, testing etc. complete.	1.00	One Number		
16.11	Providing and fixing white glazed earthenware Wash Hand Basin of 63cm x 45cm size including Bib cock stop tap brass heavy 15mm, brackets, rubber plugs and brass chain, stop tap and necessary pipe connection including P.V.C. waste pipe and trap up to the outside face of the wall.	1.00	One Number		
16.12	Providing and fixing White glazed with bottle trap earthenware Wash Hand Basin of 63x45 cm size including cold water pillar taps, brackets, rubber plugs and brass chain, stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, making good the damaged surface, testing etc. complete.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.13	Providing and constructing granite kitchen platform with fixing of stainless steel sink 600 mm x 450 mm size as per detailed drawing including vertical both side polished kadappah stone 25 to 30 mm thick supports with kadappah top 35 to 40 mm thick and polished granite 16 to 20 mm top with side strips of granite at front and both sides of platform raised with two vertical granite supports 15 cm height and top granite of 75 x 40 cm including cutting, opening for sink of required size in kadappah as well as granite etc. complete. (Platform top size 5.00 m x 0.60 m and height is 0.75 m)	1.00	One Square Metre		
16.14	Providing and fixing 15 centimetre x 10 centimetre salt glazed stoneware gully trap in cement concrete 1:4:8 out side the building including cast iron grating in the sink, connecting glazed stonewre pipe brick masonry chamber with cast iron lid and cast iron grating for the gully trap.	1.00	One Number		
16.15	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	1.00	One Running Metre		
16.16	Providing and laying concrete pipes of I.S.NP. class of 225mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	1.00	One Running Metre		
16.17	Providing and laying concrete pipes of I.S.NP. class of 300mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	1.00	One Running Metre		
16.18	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140Kilogramwith frame etc complete.	1.00	One Number		
16.19	Providing and constructing Brick Masonry Inspection Chamber 90cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W.pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140Kilogramwith frame etc complete.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.20	Providing and constructing Brick Masonry inspection trap Chamber 90 centimetre x 45 centimetre including 1:4:8 cement concrete foundation, 1:2:4 cement concrete channels/ half round glazed stoneware pipe channel, salt glazed stoneware intercepting trap with rodding pipe set in 1:4:8 cement concrete block, brick masonry plastering inside and outside, fixed in cement concrete with Reinforced cement concrete cover medium duty 140 kilogram etc. complete.	1.00	One Number		
16.21	Providing and fixing hume pipe septic tank 900mm diameter with vent pipe and cap including necessary (including excavation and laying)	1.00	One Number		
16.22	Providing soak pit of size 120cm x 120cm x 120cm including excavating and filling with brick-bats.	1.00	One Number		
16.23	Providing and fixing 450mm x 550mm size superior type Belgium mirror with 16mm dia. nickel plated towel rod etc. complete.	1.00	One Number		
16.24	Providing and fixing chromium plated towel rod 16 mm dia and 75 cm. in length including all accessories complete.	1.00	One Number		
16.25	Providing and Fixing half turn 25 mm dia gun metal flushing cock including all accessories etc. complete.	1.00	One Number		
16.26	Providing and fixing 1st class white glazed earthenware Orissa Type W.C. Pan 580 mm dia including P or S trap cast iron soil and vent pipe upto the outside face of the wall (1:5:1 0) cement concrete bedding 15 mm thick, 10 liter P.V.C. flushing cistern with all necessary pipe connection etc. complete.	1.00	One Number		
16.27	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m. washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. i) Tank capacity up to 2,000 litre.	1.00	One Number		
16.28	Cleaning elevated water storage Reservoir within a given period, by using bleaching powder at the rate of 14 gm/sq.m. washing thrice potassium permanganate at the rate of 2.50 gm/sq.m. finally, cleaning washing by using nylon brush, coir string and duster, bailing out water etc. complete. ii) Tank capacity up to 2,001 to 5000 litre.	1.00	One Number		
16.29	Providing and fixing 75 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete.	1.00	One Running Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.30	Providing and fixing 100 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete.	1.00	One Running Metre		
16.31	Providing and fixing H.D.P container one piece moulded water tank made out of high density polythylene and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters	1.00	One Litre		
16.32	Providing and fixing H.D.P container one piece moulded water tank made out of low density polythylene and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres	1.00	One Litre		
16.33	Providing and fixing on walls/ ceiling/ floor 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.34	Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.35	Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.36	Providing and fixing on walls/ ceiling/ floor 32 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.37	Providing and fixing on walls /ceiling/ floor 40 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.38	Providing and fixing on walls/ ceiling/ floor 50 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete.	1.00	One Running Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.39	Providing and laying in trenches 25 milimetre diameter CPVC pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.40	Providing and laying in trenches 32 milimetre diameter CPVC pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.41	Providing and laying in trenches 40 milimetre diameter CPVC pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.42	Providing and laying in trenches 50 milimetre diameter CPVC pipe with necessary excavation, fittings, refilling trenches. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.43	Providing and fixing 10 cm PVC nahani trap with grating etc. complete.	1.00	One Number		
16.44	Providing and fixing reinforced cement concrete cover of size 90 cm x 45 cm with frame over inspection chamber etc. complete. Heavy duty (225 Kilogram)	1.00	One Number		
16.45	Providing and fixing reinforced cement concrete cover of size 60 cm x 45 cm with frame over inspection chamber etc. complete. Heavy duty (160 Kilogram)	1.00	One Number		
16.46	Providing and fixing reinforced cement concrete cover of size 60 cm x 45 cm with frame over inspection chamber etc. complete. Medium duty (100 Kilogram)	1.00	One Number		
16.47	Providing and fixing stainless steel sink of size 600 x 510 x 200 mm including coupling, outlet pipe, elbow and other necessary fitting, finishing etc. complete.	1.00	One Number		
16.48	Providing and fixing C.P. Angular stop clock with wall flange of approved make continental including necessary sockets/union nut etc. complete.	1.00	One Number		
16.49	Providing and fixing C.P. Two way BIB cock of approved make continental including necessary sockets/union nut etc. complete.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.50	Providing and fixing C.P. wall mixer with provision for overhead shower with 115mm long bend pipe and wall flange of approved make including necessary sockets/union nut etc. complete.	1.00	One Number		
16.51	Providing and fixing C.P. pillar cock long neck with aerator of approved make including necessary sockets/union nut etc. complete.	1.00	One Number		
16.52	Providing and fixing C.P. BIB cock with wall flange of approved make including necessary sockets/ union nut etc. complete.	1.00	One Number		
16.53	Providing and fixing C.P. sink cock with raised J" shaped swinging casted spout of approved make including necessary sockets/ union nut etc. complete.	1.00	One Number		
16.54	Providing and fixing Poly Vinyl Chloride Rain water pipes of 160 milimetre outer diameter and having wall thickness of 2.2 to 2.7 milimetre confirming to Indian Standard 13592-1992 including proper rainwater receiving recess with Poly Vinyl Chloride plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25 milimetre to 40milimetre from face of wall a fixing with clips of approved quality and number, filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on Cement Concrete or masonry blocks, including necessary scaffolding and maintenance for 3 years for any leakages or dislocations of pipes. All the Poly Vinyl Chloride fittings and additional 2 piece socket clips shall be got approved from engineer in charge complete. (The contractor shall give 3 years guarantee bond for payment).	1.00	One Running Metre		
16.55	Providing and fixing European type wall-hung white water closet of approved make with push valve concealed type with cover plate 32mm size of approved make including soil pipe, vent pipe up to outside face of wall ,100mm dia. G.I. plug bend inlet pipe all fittings, cutting and making good walls, floors etc. complete.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.56	Providing and fixing P.V.C. Rain water pipes of 110mm outer diameter and having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and One Number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete.	1.00	One Running Metre		
16.57	Providing and fixing oval type under counter wash hand basin of 16 inch x 22 inch size and of special colour shade having telephonic black / coloured granite of 180 mm thick stone black kadappa framework including chromium plated coupling bottle - Trap using CERA company or equivalent oval typa wash basin model no 3448 as per detailed drawing or as directed by engg incharge etc complete. (Counter size 1.20 m x 0.60 m)	1.00	One Number		
16.58	Providing and fixing Table top white wash basin of size 120x635x405mm rubber plugs and brass chain, with pillar cock, C.P.Angular stop cock long thread, continental including S.S. bottle trap of approved make having necessary pipe connection up to theoutside face of the wall.etc complete as directed by Engineer in charge.	1.00	One Number		
16.59	Providing and fixing Ivory colour Orissa Pan of size 580x445x260 milimetre with approved make flush valve including trap, cast iron soil and vent pipe upto outside face of wall including 100 milimetre dia. cast iron plug, bend and necessary pipe connection, etc complete. As directed by Engineer in charge.	1.00	One Number		
16.60	Providing and fixing Ivory european type wall-hung, of size 360 milimetre x 360 milimetre x 575 milimetre with flush valve of approved make including soil pipe, vent pipe upto outside face of wall, 100 milimetre dia cast iron plug bend inlet pipe all fittings,cutting & making good walls, floors, including health faucet etc as directed by Engineer in charge.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.61	Providing and fixing wall hung Ivory wash basin of size 350x450x165 milimetre with approved make pillar cock, chrome plated Angular stop cock long thread approved make continental including SS bottle trap of approved make having necessary pipe connection up to the outside face of the wall etc complete as directed by Engineer in charge.	1.00	One Number		
16.62	Providing and fixing Crome Plated BIB cock with wall flange of approved make including necessary sockets/union nut etc. complete.	1.00	One Number		
16.63	Providing and fixing on walls/ ceiling/ floor 15 mm dia. uPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.64	Providing and fixing on walls/ceiling/floor 20 mm dia. uPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.65	Providing and fixing on walls/ ceiling/ floor 25 mm dia. uPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.66	Providing and fixing on walls /ceiling/ floor 40 mm dia. uPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.67	Providing and fixing on walls/ ceiling/ floor 50 mm dia. uPVC pipe with necessary fittings, remaking good the demolished portion etc. complete.	1.00	One Running Metre		
16.68	Providing and laying in trenches 15 mm dai. uPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.69	Providing and laying in trenches 20 mm dai. uPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.70	Providing and laying in trenches 25 mm dai. uPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.71	Providing and laying in trenches 40mm dai. uPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.72	Providing and laying in trenches 50mm dai. uPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	1.00	One Running Metre		
16.73	Providing and fixing 8 cm rigid PVC Nahani trap including PVC grating ,bend, connecting piece of UPVC pipe up to the outside face of wall ,making the good damaged surface and testing etc. complete (Prior approval of sample and brand by Ex. Engr. is necessary before use)	1.00	One Number		
16.74	Providing and fixing 15 cm rigid PVC Nahani trap including PVC grating ,bend,connectingpiece of UPVC pipe up to the outside face of wall ,making the good damaged surface and testing etc. complete (Prior approval of sample and brand by Ex. Engr. is necessary before use)	1.00	One Number		
16.75	Providing and fixing European type white glazed earthenware water closet pan with UPVC seat and lid with chromium plated brass hinges and rubber buffers including UPVC and vent pipe up to the outside face of wall 10 litre enameled low level flushing cistern with fittings pipe stop tap brackets for fixing cistern 32 mm dia. UPVC flush pipe with fittings and clamps ,20 mm dia.UPVC overflow pipe ,mosquito proof couplings G.I. chain and pulley,with water Jet and fitting including cutting and making good to the walls and floors testing etc. complete.(prior approval of sample and brand by Ex. Engineer is necessary before use)	1.00	One Number		
16.76	Providing and fixing in position UPVC ultra violet stabilized 110 mm outer diameter cowl dome confirming to I.S.-4985 including making joints with solvent cement etc. complete	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
16.77	Providing , laying and fixing ,jointing Eco- drain 110 mm SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete.	1.00	One Running Metre		
17	Building Miscellaneous Item				
17.01	Providing and erecting 1.5 metre high wire fencing with seven rows of barbed wire supported on M.S.Angles (50mm x 50mm x 6mm) at 2.5 Metres, Center to center including excavating pits for foundqtion, fixing post in cement cocnrete 1:4:8 of size 45 x 45 x 45 cm fastening the wire and painting the M.S.Angles with one coat of red lead primer and two coats of painting etc.complete.	1.00	One Running Meter		
17.02	Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, includind excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.	1.00	One Running Metre		
17.03	Providing and fixing mild steel grill gate with angle iron frame 65mm x 65mm x 10mm with iron bars at 150mm C/C and diagonal flats as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade Weight of gate 35 Kilogram/Smt.	1.00	One Square Metre		
17.04	Providing and fixing 90 cm x 60 cm Marble plate engraving 10 cm. height letter, figures including painting the lefters/figures with approved colour and shade complete	1.00	One Number		
17.05	Providing and erecting 1.2 meter high wire fencing with five rows of barbed wire supported on mild steel angle (50 x 50x 6mm) post at 2.5 m c/c including excavation of pits of foundation concrete fixing the posts in (1:4:8) cement concrete block of 45x45x45 cm and fastening the Wires and painting the angles with one coat with red lead primer and two coats of oil painting etc.complete	1.00	Running Meter		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
17.06	Providing and fixing informatory sign boards in rectangular shape of size 1.20 meter x 0.90 meter made out of 16 guage Aluminum panel bonded with Indian Road Congress Specified colour of retro reflective sheeting of Type IV High Intensity Micro-Prismatic Grade Sheeting (HIP) having pressure sensitive/ heat activated adhesive, Indian Road Congress Specified colour retro reflective cutout border and messages having pressure sensitive adhesive having border and messages in Indian Road Congress Specified colour background including Mild Steel angle iron frame of size 35 milimetre x 35 milimetre x 3 milimetre and two Mild Steel angle iron post of size 65 milimetre x 65 milimetre x 6 milimetre, 3.65 m long, duly painted with flat oil paint having alternate black and white bands of 25 centimetre width including galvanised iron fixtures etc. fixing the boards in M-20 concrete block of size 60 centimetre x 60 centimetre x 75 centimetre including transportation etc. complete.	1.00	One Number		
18	Building Maintenance				
18.01	Removing double country tiled roof with ridge and with battens and stacking the materials as directed with all leads and lifts, complete including removing wood work below etc. complete	1.00	One Square Metre		
18.02	Dismantling brick masonry in lime or cement mortar and stacking the materils as directed with all leads, lifts etc.	1.00	One Cubic Metre		
18.03	Dismantling stone masonry in lime or cement mortar including stacking the materils as directed with all leads, lifts etc.	1.00	One Cubic Metre		
18.04	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc, complete.	1.00	One Cubic Metre		
18.05	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete.	1.00	One Cubic Metre		
18.06	Removing brick bat coba including stacking the spoils as directed with all leads, lifts etc, complete.	1.00	One Cubic Metre		
18.07	Removing doors and windows with frames and stacking the materials as directed with all leads, lifts etc. complete.	1.00	One Number		
18.08	Removing ventilators and small windows with frame and stacking the materials with all leads, lifts etc. complete.	1.00	One Number		
18.09	Removing wooden or A.C. partition including frame work and stack-ing the materials as with all leads, lifts etc. complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
18.10	Removing cement tiles, or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete	1.00	One Square Metre		
18.11	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.	1.00	One Running Metre		
18.12	Removing iron pipe raling having wooden R.C.C. or C.C. or iron post and stacking the materials as directed etc. complete.	1.00	One Running Metre		
18.13	Removing earthen, stonewate pipe and stacking them as directed with all leads, lifts etc. complete.	1.00	One Running Metre		
18.14	Removing cast iron or wrought iron or A.C. pipe and stacking them as directed with all leads, lifts etc. complete.	1.00	One Running Metre		
18.15	Dismantling the R.C.C. Work 1:2:4 and sorting out the materials such as steel etc. as directed and stacking them within the specified lead as directed etc. complete.	1.00	One Cubic Metre		
18.16	Providing and fixing Jute Kantan (Tarat) screen to the scaffold-ing for external gunting as directed including removing the same after the work is over etc. complete.	1.00	One Square Metre		
18.17	Removing urinal pans or wash hand basins with frame including disconnecting the sanitary and water supply connections, removing the same carefully and stacking the serviceable materials as and where directed including throwing the unserviceable materials outside etc complete	1.00	One Number		
18.18	Removing W.C. pans including disconnecting the sanitary and water supply connections, removing and breaking flooring and bed con-crete around pan removing the same carefully and stacking the serviceable materials as adn where directed including throwing the unserviceable materiasls out side etc. carefully and throwing out the refusal outside etc. complete.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
18.19	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube chalis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for such works.	1.00	One Square Metre		
18.20	Removing Manglore tiled roof and ridge tiles with battens, ridge and barge boards, eaves 8 A boards etc and sacking the materials as directed with all leads and lifts complete. Including removing wood work below etc. complete.	1.00	One Square Metre		
18.21	Replacement of damaged Aldrop 300 mm Chromium plated of approved quality and make to door shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	1.00	One Number		
18.22	Replacement of damaged Aldrop 300 mm Iron Oxidised of approved quality and make to door shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	1.00	One Number		
18.23	Replacement of damaged Tower Bolt 300 mm Chromium plated of approved quality and make to door/window shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
18.24	Replacement of damaged Alluminium Handle 125 mm of approved quality and make to door/window shutter including removing existing the same in original position making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	1.00	One Number		
18.25	Replacement of damaged Lock of approved quality and make to cupboard and doorwer including Removing and Refixing with necessary screw, making proper adjustment for smooth operation etc. complete as per sample approved by Engineer in-charge.	1.00	One Number		
18.26	Removing chockes and leakages from down take G.I/CI/PVC pipe line on walls floor level by using zoola / scaffolding and rectify the same for functioning with all lifts etc. complete.	1.00	One Number		
18.27	Manually clearing the chockes from under ground drainage line including Inspection chambers with the help of required tools for propre functioning line chamber to chamber etc. complete.	1.00	One Running Metre		
18.28	Manually clearing by removeing the chockes from Nahni Trap, Gully Trap, Wash basin unit, Sink and WC with the help of required tools for proper functioning the same etc. complete.	1.00	One Number		
18.29	Filling tiles joint portion of flooring and dado filling with white cement by removing existing loose mortar/ cement slurry from joint with tools and finish with washing cleaning and curing etc. complete.	1.00	One Square Metre		
18.30	Removal of plants / ficus grown by pulling out root system embedded in masnory, cutting stem and application of high/gur/lime formulation as specified by the Architect or other patented chemical biocide treatment such as biocide 'Glycel' (iso proplamine salt of glyphosate) or other chemical as specified by the Engineer in charge etc. complete.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
19	Structural Strengthening				
19.01	Providing & Applying chemical for cleaning the exposed steel structure, TMT bars, etc. of structure by grinding the surface by grinder machine, wire brush, removing existing corrosion from the metal also removing loose particles, of the area by water jet, (using other mechanical / manual means) and apply on prepared surface of as corrosion preventive coat on prepared TMT bars, steel structure, metal surface etc. to protect it from corrosion etc. as per manufacturer's specification (using other manual / mechanical means) after that Providing and applying high abrasive resistant, self curing, UV resistant, impermeable ,high strength, non shrink, Poly Ironite Ceramic Cementitious (PICC) repair mortar resurfacing on concrete surface of thickness up to 10 mm including breaking honey comb area, (using manual/mechanical means) , clean the concrete surface with special chemical clonon with pressure water jet for removing of algae fungi, apply bond coat Kelox water misible epoxy before PICC application with all leads and lifts, Material, Machinery, labour, scaffolding, etc. complete as per specification and as directed by engineer-in-charge.	1.00	One Square Metre		
19.02	Providing and grouting the holes by Poly Ceramic Cementitious i.e NicGrout G 06 + 53 grade cement material of as per requirement to reduce the porosity of concrete / Masonry structure and to increase the strength of structure using grouting pipes , grouting m/c, mixer etc and all relevant safety with all leads and lifts, material, machinery, labour, etc. Complete as per specification and as directed by Engineer-in-Charge.	1.00	One Kilogram		
19.03	Providing and applying high abrasive resistant, UV resistant, impermeable ,self curing, high strength, non shrink, Poly Ironite Ceramic Cementitious (PICC) repair mortar for water proofing on concrete surface with thickness up to 5 mm, , apply bond coat Kelox Water Misible epoxy before PICC application (using manual/mechanical means) and Providing and Applying PCC up to 50 mm thickness for desire slope to drain the water and kept ponded for continuous period of 3 days to detect any seepage / leakage/ dampness if any, the surface then shall be cleared, complete as per specification including cost of all materials, machinery, labour, insurance charges as directed by the Engineer in charge.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
19.04	Strengthening structural elements by providing & fixing CARBON FIBER (Make Sika or BASF or FOSROC) Surface preparation: Grinding concrete substrate, cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25 mm radius etc. complete.Profiling: providing & Applying compatible Mbrace primer on prepared substrate, Filling the holes and uneven surface with high strength epoxy putty etc. complete IF Required. Wrapping: Providing & Applying first coat of Saturant, cutting the carbon fiber sheet to size, wrapping the fiber sheet to structural element at desired orientation using tamping roller to avoid any air voids etc. complete.Sand pasting: Providing & Applying second coat of Saturant after min. 12 hrs, rectify air voids if any paste the rive sand on it to make surface rough to take any further finishes(Mode of measurement: Per sq.mt of Mbrace CF 400 sheet applied and not surface area of Concrete application & Quantity will be measured including wastage) The rate includes all type of material,application,equipment & scaffolding etc complete. Rate is applicable for all height & level.	1.00	One Square Metre		
20	Rain water harvesting				
20.01	RWH - Shallow Percolation Pit providing, constructing 2.0m deep shallow depth percolation pit comprising of 1.0m dia pre-cast RCC rings, 300mm thick side filling around outside of RCC rings (annular space) with 40mm size boulders including filling of percolation pit up to 0.5m depth (from bottom up) with 25-75mm clean washed gravels followed by 0.5m depth of 10-25mm of clean washed stones followed by 0.5m of washed river fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) including netlon mesh between each gravel/fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) media layer including covering with RCC slab, manhole frame & cover, PVC rungs etc. including arrangement for inlet & outlet pipe, excavation & backfilling as shown in the drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels. All material should be of approved make. All works complete as per the drawing, technical specification and direction of the Engineer in charge	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
20.02	<p>RWH - Recharge Pit</p> <p>Providing and constructing recharge pit of 2.0m deep and 1.0m dia of pre-cast RCC rings with 6.5" dia x 25m deep borewell at the floor of recharge pit including installation of combination of solid/perforated PVC casing pipe wrapped around with netlon mesh including 300mm thick sidefilling around outside of RCC rings (annular space) with 40mm size boulders including filling of recharge pit up to 0.5m depth with 25-75mm clean washed gravels from bottom up followed by 0.5m depth of 10-25mm of clean washed stones followed by 0.5m of washed river fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) including netlon mesh between each gravel/fine aggregate (natural sand/crushed sand VSI grade finely washed etc.) media layer including covering with RCC slab, manhole frame & cover, PVC rungs, PVC end-caps, fittings etc. including arrangement for inlet & outlet pipe excavation & backfilling as shown in the drawing. The rate shall be inclusive of all labour, material, wastage, scaffolding, transportation, taxes, including all leads, lifts at all levels. All material should be of approved make. All works complete as per the drawing, technical specification and direction of the Engineer in charge.</p>	1.00	One Number		
20.03	<p>Boring/drilling bore well of 300mm dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machinery required for the job, all complete as per direction of Engineer in charge, upto 90m depth below ground level.</p>	1.00	One Running Metre		
20.04	<p>Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well-casing pipe of 150mm dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per the direction of Engineer in charge.</p>	1.00	One Running Metre		
20.05	<p>Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well screen pipes with ribs of 100mm dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per the direction of Engineer in charge.</p>	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
20.06	Supplying, filling, spreading & leveling stone boulders of size range 5cm to 20cm in recharge pit, in the required thickness, for all leads & lifts, all complete as per the direction of Engineer- in-charge.	1.00	One Cubic Metre		
20.07	Supplying, filling, spreading & leveling gravels of size range 5mm to 10mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-incharge.	1.00	One Cubic Metre		
20.08	Supplying, filling, spreading & leveling coarse fine aggregate (crushed sand VSI grade finely washed etc.) of size range 1.5mm to 2mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer in charge.	1.00	One Cubic Metre		
20.09	Gravel packing in tubewell construction in accordance with IS:4097, including providing gravel: fine/ medium/ coarse, in required grading & sizes as per the actual requirement, all complete as per direction of Engineer in charge.	1.00	One Cubic Metre		
21	Accoustic				
21.01	Providing of Accoustic Door to effectively control noise inconference rooms, broadcasting studios, theatres and music practice rooms. with prior approval of concerned Superitending Engineer. a)Door Frame: Providing Frames for Accoustic door shutters with double rabbit of 68mm 1st class Malaysian Hardwood Frame densified and pressure treated with chemicals in vacuum impregnation vessel under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 70 mm spray quoted with 2 coats of In tumescent paint of minimum 200 micron, with 1 row of Hafele Accoustic seals concealed in the groove of the Frame for noise control, etc. complete as per direction of Engineer in Charge	1.00	One Running Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
21.02	<p>Providing of Accoustic Door to effectively control noise in conference rooms, broadcasting studios, theatres and music practice rooms. with prior approval of concerned Superintending Engineer.</p> <p>b)Shutter: Providing of 65mm thick Accoustic Door Shutters with wooden structure comprising of Chemical treated internal timber with anti termite chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401 and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x 48 mm with 48 mm thick infill of ceramic vermiculite mix of density 54 Kilograms/CMT, 3mm sheet rubber interlayer sheet on one side for acoustic property, faced with 6mm High Density Waterproof Ply confirming to IS Code 2201, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray coated with 2 coats of PU paint of minimum 200 micron of color of engineer choice (any Veneer or Lamination will cost extra), without any external lipping along with double rebatting in shutters & accoustic seal</p>	1.00	One Square Metre		
21.03	<p>Providing & Fixing in position, Acoustical Panelling made from Fabric wrapped Compressed polyester fibre nonwoven 9 mm panels on, 50 x 50 mm sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects.including all materials labour,finishing etc complete</p>	1.00	One Square Metre		
21.04	<p>Providing & Fixing in position, Acoustical Panelling made from Wood-wool board 20mm on, 50 x 50 mm Sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 Gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete</p>	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
21.05	Providing & Fixing in position, Acoustical Panelling made from Gypsum plain 12mm panels on, 50 x 50 mm Sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 Gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete	1.00	One Square Metre		
21.06	Providing & Fixing in position, Acoustical Panelling made from 12mm wp Ply wood & 1.5mm laminate on, 50 x 50 mm Sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 Gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects.including all materials labour,finishing etc complete	1.00	One Square Metre		
21.07	Providing & Fixing in position Acoustical Doors along with 150 x 150 mm teak wood frame, doors made from 50mm Teak wood frame 600 x600 c to c filled with 1000 Gsm synthetic wool 50mm thick and 3mm Tecsound from both sides, 12mm waterproof ply & veneer from both sides , including 150mm heavy duty SS hinges (Geze / Dorma or eq.) 4 no each leaf, with Door-closer (Dorma / Geze or eq.) including cost of required Cut-Outs, decorative mouldings / finishing-items / melamine polish & Scaffolding as per Architectural & Acoustical Design & Instructions & Complete in all aspects .including all materials labour,finishing etc complete	1.00	One Square Metre		
21.08	Providing & fixing in position Stage flooring Made from 18mm plywood 1200 x 2400 & 18mm Teakwood planks 100 x 800 having tongue & grove on Sal-wood frame of 50 x 100 at 600mm c to c on stage surface including cost of required Cut-Outs, decorative mouldings / finishing-items / polish etc., as per Architectural & Acoustical Design & Instructions & Complete in all aspects. .including all materials labour,finishing etc complete	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
21.09	Providing & Fixing in position, Acoustical Ceiling made from Gypsum Plain Panels on approved heavy duty G.I. frame ceiling channels at 450 c to c, & intermediate channels not more than 1200 c to c, along with ply wood forms suspended with Hangers from Roof, in front of 1000 Gsm synthetic wool 50 mm thick, with Paint, including cost of required Cut-Outs, decorative mouldings / finishing-items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects.including all materials labour, finishing etc complete	1.00	One Square Metre		
21.10	Providing & Fixing in position, Acoustical Ceiling made from Compressed polyester fibre nonwoven 9mm panels on approved heavy duty GI frame 300 mm c to c & intermediate channels at 1200 mm c to c, suspended with Hangers from Roof, including cost of required Cut-Outs, decorative mouldings / finishing-items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	1.00	One Square Metre		
21.11	Providing & Fixing in position, Acoustical Ceiling made from Rigitone 8/18 perforated panels on approved heavy duty G.I. frame, ceiling channels at 300 c to c, & intermediate channels not more than 1200 c to c, suspended with Hangers from Roof, in front of 1000 Gsm synthetic wool 50 mm thick, with Paint, including cost of required Cut-Outs, decorative mouldings / finishing-items & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	1.00	One Square Metre		
21.12	Providing & Fixing in position, Acoustical Panelling made from 12mm thick Agro wood strips of 50, 75 7 100 mm width on 50 x 50 mm Sal-wood frame of 600 x 600 c to c having supports from wall of required length, in front of 1000 gsm synthetic wool 50 mm thick with approved coloured fabric on strips side & chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / Melamine Polish & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
21.13	Providing & Fixing in position, Fabric wrapped Compressed polyester fibre nonwoven 9mm panels above the wood wool board panelling or existing sal wood frame, using adhesive, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour, finishing etc complete	1.00	One Square Metre		
21.14	Providing & Fixing in position, Partition made from 12mm thick Gypsum from both sides on 50 x 50 mm Sal-wood frame of 600 x 600 c to c, having of 800 gsm synthetic wool 50 mm thick in between, including cost of required Cut-Outs & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	1.00	One Square Metre		
21.15	Providing & Fixing in position, Carpet more than 800+ gsm, made with 100% stain proof fibres of approved make along with 5mm underlay as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete	1.00	One Square Metre		
21.16	Providing & Fixing in position, 1000 mm wide Auto-glow Aluminium extruded strips on auditorium steps as per Design & Instructions & Complete in all aspects. Make Piccolo or Nexus	1.00	One Number		
21.17	Providing & Fixing in position, 12mm wp Ply wood & 1.5mm laminate panels above the fabricated frame on one side, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour, finishing etc complete	1.00	One Square Metre		
21.18	Providing & Fixing in position, MS fabrication work using angles, sqr tubes, c channels etc for various partition frame as per Design & Instructions & Complete in all aspects . including all materials labour,finishing etc complete	1.00	One Kilogram		
21.19	Providing & Fixing in position, Under Deck insulation for metal deck using 1000 Gsm synthetic wool with fixed to deck using adhesive and chicken mesh.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
21.20	Providing & fixing in position, heavy duty fully upholstered Auditorium chairs 520 mm c to c tip-up type. Height of back should be less than 1030 mm with plastic protective cover on back and bottom having teak wood handles. Back to back distance is 1000mm. The auditorium chairs should be of following specifications 1. Powder Coated Heavy duty MS Stand. 2. Individually moulded , ergonomically designed seat and back cushions. 3.Moulded Polyurethane Foam cushion. PU foam density 48 – 52 Kilograms/cu.mtr 4. Moulded Polyurethane Foam manufactured in certified ISO 9001 facility to ensure consistency in density for longevity .5.Upholstered in Foam laminated stretch sandwich Fabric for clean finish and soft comfortable feel as per the colour & pattern selected by the client.6.Seat and Back should have moulded synthetic protective cover. 7. Wooden or PU armrest 65mm x 20mm - 330mm long . 8.Mounted using Anchor fasteners.	1.00	One Number		
21.21	Providing and Fixing Rollar Blinds AMI Make or approved make & shade of 38mm round Aluminium channel with Blackout fabric & telting with chain (Ball) system with all necessary fixtures and fitting etc. complete. (Sample to be final by Engineer In-charge prior execution of work)	1.00	One Square Metre		
21.22	Providing and Fixing Vertical Blinds of approved Make and shade of 100mm regular fabric with powder coated aluminium channel with telting PVC chain & bottom weight plate with all necessary fixtures and fitting etc. complete. (Sample to be final by Engineer In-charge prior execution of work)	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
22	Cubical Toilet				
22.01	Supply and installation of cubicles of width and depth as per Athena Lite- SS Series Cubicles- Std Sizes (W x D x H): 900 mm x 1550 mm x 2105 mm, (Height is including 100 mm gap from bottom, Door Width- 600 mm specifications/ site drawings). Cubicle height to be 2105 mm. Made from solid grade compact high pressure laminate as per IS:2046 and EN-438 manufactured under high specific pressure > 5 MPa and temperature >120°C, All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are H shaped (Top) head frame structure made of extruded Aluminium grade 6063 T5-50 micron epoxy powder coated for surface protection, Size to be 125x70x5T. Corner joinery section, Size to be 40x16.5x1.8T. U-Channel Wall joinery section,Size to be 22x16x1.6T. Door stopper section, Size to be 21x12.5x1.6T. Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated.etc complete.	1.00	One Square Metre		
22.02	Supply and installation of CEILING HUNG cubicles of width and depth as per specifications/ site drawings. Cubicle height to be 2400 mm. Std Sizes (W x D x H): 900 mm x 1550 mm x 2400 mm, (Height is including 100 mm gap from bottom) Door Width- 600 mmITEM DESCRIPTION Made from solid grade Merino make compact high pressure laminate as per IS:2046 and EN 438 manufactured under high specific pressure > 5 MPa and temperature >120° C, All doors will be of single colour and made of 18 mm thick Merino HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. All intermediate partitions or dividers will be made of 12 mm thick Merino HPL compact laminate panels. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are H shaped (Top) head frame structure made of extruded Aluminum grade 6063 T5-50 micron epoxy powder coated for surface protection. Size to be 125x70x5T. Corner joinery section, Size to be 40x16.5x1.8T. U-Channel Wall joinery section, Size to be 22x16x1.6T. Door stopper section, Size to be 21x12.5x1.6T. Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated.Coat hook with rubber stopper made from Stainless steel grade 304. Surface finish to be matt type. etc complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
22.03	Supply and installation of PD DOOR cubicles of width and depth as per specifications/ site drawings. PD Door height to be 1980/2100 mm. PD Doors Series : Std Sizes (W x H): 2100 mm x 7500 mm (Height is including 150 mm gap from bottom), Door Made from solid grade Merino Make compact high pressure laminate as per IS:2046 manufactured under high specific pressure > 5 MPa and temperature >120°C, Panel thickness 12 mm. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are Specially designed D-shape wall mounted pole made from extruded grade aluminum alloy 6063/HE9/T-6 and epoxy powder coated (color as per specifications) for surface protection. Size to be 46x41x2T, Matching profile and color Nylon Polyamide-6 caps to cover aluminum Poles, Self closing Hinges (Gravity mechanism) made from Nylon Polyamide grade-6. Color to be as per specifications, Stainless steel grade 304 screws, Anti-rotation Nylon polyamide grade-6 expandable wall plugs, etc complete.	1.00	One Square Metre		
22.04	Supply and installation of 12MM BOX UP cubicles of width and depth as per specifications/ site drawings. Cubicle height to be 2100Titan Box up 18 mm Series Cubicles: Std Sizes (W x D x H)- 900 mm x 1550 mm x 2100 mm, (Height is including 100 mm gap from bottom) Door Size- 600 mm mOne Metric Tonneitan Box up 18 mm Series Cubicles: Std Sizes (W x D x H)- 900 mm x 1550 mm x 2100 mm, (Height is including 100 mm gap from bottom) Door Size- 600 mmTitan Box up 18 mm Series Cubicles: Std Sizes (W x D x H)- 900 mm x 1550 mm x 2100 mm, (Height is including 100 mm gap from bottom) Door Size- 600 mmITEM DESCRIPTION: Made from solid grade Merino make compact high pressure laminate as per IS:2046 manufactured under high specific pressure > 5 MPa and temperature >120°C, All doors will be of single colour and made of 18 mm thick Merino HPL compact panel. All pilasters will be made of 18 mm thick Merino HPL compact panel. HARDWARE & ACCESSORIES are No head frame structure, all panels to be aliengned to the top, Corner joinery section made from Stainless steel grade 304. Surface finish to be brush type. A thin plastic film pasted for surface protection. Size to be 35mmx15mmx0.8 mm. etc complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
22.05	Supply and installation of cubicles of width and depth as per specifications/ site drawings. Cubicle height will be 1980 mm Titan Std Series Cubicles: Std Sizes (W x D x H): 900 mm x 1550 mm x 1980 mm/2039 mm (Height is including 150 mm gap from bottom) Door Size- 600 mm when top rail of rectangular cross section is used and 2039 mm when top rail of circular cross section is used ITEM DESCRIPTION Made from solid grade Merino make compact high pressure laminate as per IS:2046 and EN-438 manufactured under high specific pressure > 5 MPa and temperature >120°C, All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. All pilasters will be made of 12 mm thick HPL compact panel. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are Top rail is made of stainless steel grade 304. There are two options for the top rail. First one comes with a rectangular cross section (Size to be 55mmx42mmx1.6 mmT) and the other one comes with circular cross section (Diameter 32 mm). Surface finish to be brush type. A thin plastic film pasted for surface protection. Corner joinery section made from Stainless steel grade 304. Surface finish to be brush type. A thin plastic film pasted for surface protection. Size to be 35mmx15mmx0.8 mm. etc complete.	1.00	One Square Metre		
22.06	Supply and installation of ZMS (Nylon) cubicles of width and depth as per specifications/ site drawings. Cubicle height will be 2003 mm. ZMS Series Cubicles: Std Sizes (W x D x H): 900 mm x 1550 mm x 2003 mm, (Height is including 150 mm gap from bottom) Door Width- 600 mm ITEM DESCRIPTION Made from solid grade compact high pressure laminate as per IS:2046 and EN-438 manufactured under high specific pressure > 5 MPa and temperature >120°C. All doors will be of single colour and made of 12 mm thick HPL compact panel. All pilasters will be made of 12 mm thick HPL compact panel. All intermediate partitions or dividers will be made of 12 mm thick HPL compact laminate panels. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are Semi-spherical (Top) head frame structure for surface protection. Size to be 50x32x1.6T. Corner joinery section, Size to be 40x16.5x1.8T. U-Channel Wall joinery section, Size to be 22x16x1.6T. Door stopper section, Size to be 21x12.5x1.6T. Stainless steel grade 304 screws, Anti-rotation Nylon polyamide grade-6 expandable wall plugs, The Work shall complete as per drawing , under supervision of engineer in charge, etc complete.	1.00	One Square Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
23	Antitermite Treatment and Pest Control				
23.01	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper.	1.00	One Square Metre		
23.02	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) treatment by treating the backfill in immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 1.0 percent of clorophyrifos per square metre of vertical surface area covering 10 years guarantee on bond paper.	1.00	One Square Metre		
23.03	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per square metre of surface area covering ten years guarantee on bond paper.	1.00	One Square Metre		
23.04	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-I) to the soil along the external face of building by punching holes of 1.2 of 1.5 C.M. diametre about 30 -60 cm deep at 15 cm c/c as close to the wall as possible and to inject 0.5 percent of aldrin or clorophyrifos at the rate of 7.5 litres per hole and sealing the same with proper filling and covering 10 years guarantee on bond paper.	1.00	One Square Metre		
23.05	Providing antitermite treatment to the wooden frames of doors/windows of the existing building as per I.S. 6313 (Part-III) by drilling 6mm dia. holes at four corners on one side and four corners on other side at a downward angle of about 45 degree at the junction of wood work and masonary and injecting 150 ml. of chlorodane 5% W.C. and sealing by filling putty etc. complete covering 2 years guarantee on bond paper.	1.00	One Number		
23.06	Providing antitermite treatment to the joints of wooden beams/joist used for the roof work of the existing building as per I.S. 6313 (Part-III) by drilling 6mm dia. holes at a downward angle of about 45 degree at the junction of wood work and masonary and injecting 80 ml. of chlorodane 5% W.C. and sealing by filling putty etc. complete covering 2 years guarantee on bond paper.	1.00	One Number		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
23.07	Providing antitermite treatment to the sides of flooring of the existing building as per I.S. 6313 (Part-III) by punching holes 6mm dia. drilled at a distance of 30cm. centre to centre and injecting one percent of chlorodane emulsion concentrate at the rate of 50 ml per hole and sealing by filling putty etc. complete covering 2 years guarantee on bond	1.00	One Number		
23.08	Providing antitermite treatment around the periphery of the existing building as per I.S. 6313 (Part-III) by excavating trenches of 20cm width and exposing the sides of columns and plinth beams upto a depth of 300mm and injecting one percent of chlorodane emulsion concentrate at the rate of 2.25 litres per One Running Metre and refilling the trenches etc. complete covering 2 years guarantee on bond paper.	1.00	One Running Metre		
23.09	Providing general pest control services to the building to control the nuisance of cockroaches, lizards, pin bores and other insects etc. with 4 operations in a year and monthly check up.	1.00	One Square Metre		
23.10	Providing general pest control services to small size of inspection chamber to control the nuisance of cockroaches during the year with monthly check up.	1.00	One Number		
23.11	Providing general pest control services to big size of inspection chamber to control the nuisance of cockroaches during the year with monthly check up.	1.00	One Number		
24	Non-SSR Items				
24.01	Providing & laying Plum concrete consisting of 80% PCC mix (1:3:6) & 20% rubble stone of maximum size of 150 mm laid in layers with ramming consoladating watering including dewatering cost seigniorage & conveyance of all materials, labours charges, machine mixing, finishing the surface etc complete.	1.00	One Cubic Metre		
24.02	Removing by gas cutting/ mechanical cutting/ debolting various M.S. rolled sections, M.S. tanks, M.S. chequered plates etc. making end connections free & Refixing existing structural steel work, M.S. tanks & supporting system carefully including necessary fixtures, welding, minor fabrication, applying one coat of red oxide primer & two coats of oil paint, scaffolding if necessary etc. complete.	1.00	Metric Tonne		
24.03	Removing mortar from and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured): In lime mortar.	1.00	One Number		
24.04	Removing exisitng provided, layed & fixed P.V.C. pipe of 110 mm. dia including disconnecting exisitng connections, with necessary fittings, scaffolding etc. complete.	1.00	One Running Metre		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
24.05	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sqm and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.	1.00	One Square Metre		
24.06	Supplying, stacking and Spreading 15 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling with road roller/ hand roller	1.00	One Square Metre		
25	Royalty				
25.01	Royalty Charges	1.00	One Cubic Metre		
25.02	Surcharge 2% on Royalty Charges	1.00	One Cubic Metre		
26	Tests for Quality Control				
26.01	Testing Charges for conducting BASIC TEST OF CEMENT. Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1.00	Test		
26.02	Testing Charges for conducting BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1.00	Test		
26.03	Testing Charges for conducting BASIC TEST OF AGGREGATE. Sieve Analysis test.	1.00	Test		
26.04	Testing Charges for conducting BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1.00	Test		
26.05	Testing Charges for conducting FINE AGGREGATES. Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1.00	Test		
26.06	Testing Charges for conducting BRICKS Water Absorption (Set of 5 Bricks), Compressive Strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks) test.	1.00	Test		
26.07	Testing Charges for conducting CERAMIC TILES / VITRIFIED TILES Water Absorption, Modulus of Rapture (Set of 6 Tiles) test.	1.00	Test		
26.08	Testing Charges for conducting CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	1.00	Test		
26.09	Testing Charges for conducting Concrete Mix Design (With all Tests on basic materials).	1.00	Test		
26.10	Testing Charges for conducting MORTAR Compressive Strength (Set of 3 Cubes) test.	1.00	Test		
26.11	Testing Charges for conducting SOIL / MURUM Liquid limit & plastic Limit test.	1.00	Test		
26.12	Testing Charges for conducting SOIL / MURUM Compaction Test (Proctor Density).	1.00	Test		
26.13	Testing Charges for conducting SOIL / MURUM C.B.R. Test (Lab) Excluding compaction test.	1.00	Test		

Sr. No.	Description of the item	Quantity	Unit	Rate	Amount
26.14	Testing Charges for conducting WOOD Density, Moisture Content test.	1.00	Test		
26.15	Testing Charges for conducting FLUSH DOOR Knife Test, Adhesion Test, End Immersion Test.	1.00	Test		
26.16	Testing Charges for conducting ALUMINIUM SECTION Test for Thickness, Mass Per Running meter.	1.00	Test		
26.17	Testing Charges for conducting STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1.00	Test		
26.18	Testing Charges for conducting STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress).	1.00	Test		
26.19	Testing Charges for conducting CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	1.00	Test		
26.20	Testing Charges for Natural stone. Determination of Water Absorption, Specific Gravity test.	1.00	Test		