

Bharat Heavy Electricals Limited
High Pressure Boiler Plant - Tiruchirappalli – 620 014.
Civil Engineering Department (Factory)
NOTICE INVITING E-TENDER

Part – I TECHNO COMMERCIAL BID (QB)		
1.	Tender Schedule No.	CF: TS: 023 / 20 - 21
2.	Tender Type	Open Tender – Two Part (e-Tender)
3.	Name of Work	<i>Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing, roof leakage in Masonry, RCC buildings , Carpentry works, Aluminium works, False ceiling, interior decoration works, Railway tracks, gantry tracks, main water supply lines and works related to function arrangements such as Stage, Shamiana etc., for BHEL-Trichy, factory complex.</i>
4.	Location of Work	BHEL – Trichy Complex
5.	Contract Value	Rs. 120,00,000.00 + Applicable GST
6.	Evaluation Value	Rs. 72,00,000.00
7.	Period of Contract	15 (Fifteen) Months from the date of award of contract
8.	EMD	Rs. 1,44,000.00 (Rupees One Lakh Fourty Four Thousand only) EMD will not be waived off for MSE / NSIC / SSI vendors on submission of valid Documents. (EMD shall be paid preferably in the NEFT form (Ref. Annex-A1 and the SBI-e-collect receipt shall be uploaded), EMD taken other than NEFT mode, should be forwarded in original, physically / couriered to Civil Township Office, on or before tender submission deadline. The scanned copy of the same should be uploaded in eProcurement site. For NEFT mode (failing to adhere to the above, will make the bid liable for rejection)
9.	Tender document Details	Qualification Bid: Pages 1 to 38 Price Bid: Pages 39 to 149
9a.	Civil Special & Standard conditions of contract	Attached Separately
10.	Mode of submission of offer	No Physical submission of tender, Tender only to be submitted electronically by logging to e-procurement portal https://eprocurebhel.co.in
11.	Contact details of queries related to tender	Smt. M. Shyamala Devi, Dy. Manager, Civil / FY. / Plng. 0431 257 5347; e-mail: shamalam@bhel.in Shri. R. Sundaresan, Manager / Civil / Plng, Hort. & HK 0431 257 8549; e-mail: sundaresan@bhel.in Shri. V. Subramaniyan, Manager / Civil / TS Maint. 0431 257 1012; e-mail: vsmn@bhel.in
12.	Contact details for queries related to scope of work	Shri. G. Nandakumar , Manager / Fy. / Civil Maint. 0431 257 1702; e-mail: gnkumar@bhel.in
13.	Last Date for Receipt of Tender	18.05.2021 / 10:00 Hrs.
14.	Date of Techno Commercial Bid opening	18.05.2021 / 14:00 Hrs.
15.	MSE benefits if applicable	Not Applicable

We, the tenderer, have gone through all the pages of tender document and accept the terms and conditions.

Contractor Profile details -

1.	Name of the Enterprise / Company / Firm.	To be filled in e-procurement portal
1.1.	Status of the Enterprise / Company / Firm.	To be filled in e-procurement portal
1.2.	Regd. Address of Enterprise / Company / Firm.	To be filled in e-procurement portal
1.3	If offer is addressed from different address, as above, the same may specified,	To be filled in e-procurement portal
2	Details of documentary evidence submitted in support of Status of the Enterprise / Company / Firm.	Details to be filled and documentary evidence to be uploaded in e-procurement portal
Following documents to be uploaded in e-procurement portal based on status of Agency / Company / Vendor		
2.1	Sole Proprietorship	PAN / GST Registration
2.2	Partnership	Registered Partnership Deed / Pan copy of all the partners to be furnished
2.3	Private Limited Company / Public Limited Company / Public Sector / Govt. org	Certificate of Registration / Memorandum of Association & Articles of Association
2.4	Are you/your partner involved whether as a proprietor/partner in other companies. In case of bid given by company, any other sister concerns being run. (Details of Name, Address, etc., of such companies shall be furnished.) if applicable	To be filled in e-procurement portal
3.	Landline/Mobile number(s)	To be filled in e-procurement portal
4.	E-mail Address	To be filled in e-procurement portal
5.	Name, Designation and Contact details of person signing the Tender (In case of authorized signatory, the copy of Power of Attorney (POA) should be uploaded as per Annexure-A3.)	To be filled in e-procurement portal
6.	BHEL- Trichy Vendor Code: (If vendor code is not available, kindly Submit the original NEFT/RTGS Format duly filled and signed in the last page (No. 25) of this document along with cancelled cheque leaf)	To be filled in e-procurement portal
7.	EPF Registration (No. & Date) (Copy of EPF Registration to be uploaded)	Details to be filled and documentary evidence to be uploaded in e-procurement portal
8.	ESI Registration (No. & Date) (Copy of ESI Registration to be uploaded)	Details to be filled and documentary evidence to be uploaded in e-procurement portal
9.	GST registration details (If not applicable vendor shall give declaration in this regard)	Details to be filled and documentary evidence to be uploaded in e-procurement portal

If any vendors does not have ESI, EPF No. the vendor should produce a declaration in their letter head (Page No. 7 below)

NORMS FOR QUALIFICATION FOR THIS TENDER
CHECK LIST - TO BE FILLED BY CONTRACTOR COMPULSORILY

Sl. No	Qualifying Criteria	Details				
A	EMD – Rs. 1,44,000.00 (Rupees One Thousand only) (Offer without EMD will be Rejected) (EMD is not waived off for SME/NSIC/SSI/MSME vendors for this tender) (NEFT is the preferred mode of payment for EMD) EMD may be submitted in following ways: i) Electronic fund transfer credited in BHEL account (Before Tender Opening). (Refer Annexure-A1 for making EMD payment through SBI-E-collect) ii) In the form of DD / FDR (Along with offer) drawn in favour of BHEL - Trichy, payable at Trichy issued by Scheduled Bank / Nationalized bank / Consortium banks. EMD in any other form (One Time EMD, BG for full value of EMD etc.) is not acceptable.	NEFT/RTGS PAYMENT DETAILS: OR DD/ FDR DETAILS: (Details to be filled and documentary evidence to be uploaded in e-procurement portal)				
B	Technical Competence					
B1	Experience of having successfully completed similar works during last 7 (Seven) years ending last day of month previous to the one in which applications are invited should be either of the following a) Three similar completed works costing not less than the amount equal to (Rs. 28.80 Lakhs) 40% of the Estimation cost (or) b) Two similar completed works costing not less than the amount equal to (Rs. 36.00 Lakhs) 50% of the Estimation cost.(or) c) One similar completed work costing not less than the amount equal to (Rs. 57.60 Lakhs) 80% of the Estimation cost. Similar works means any civil works etc.	Details to be filled and documentary evidence to be uploaded in e-procurement portal				
C	Latest Solvency certificate (obtained within 6 months from the date of tender opening) from Nationalized / Scheduled Bank shall be at least for a value of (Rs. 28.80 Lakhs) 40 % of the Evaluation cost					
D	Financial Soundness: Vendor to filled and documentary evidence to be uploaded in e-procurement portal of Income tax return acknowledgement (ITR) Profit & Loss and Balance Sheet Certified by Auditor for the last three financial years (2017 - 18, 2018 - 19 & 2019 - 20)					
D1	Income Tax Return acknowledgment (Copy of ITR to be uploaded)	<table border="1"> <tr> <td>Fin. Year (last three financial years of FY)</td></tr> <tr> <td>2017-18</td></tr> <tr> <td>2018-19</td></tr> <tr> <td>2019-20</td></tr> </table>	Fin. Year (last three financial years of FY)	2017-18	2018-19	2019-20
Fin. Year (last three financial years of FY)						
2017-18						
2018-19						
2019-20						
D2	Profit & Loss Statement (Copy of Profit & Loss account statement certified by CA to be uploaded)					
D3	Balance Sheet (Copy of Balance Sheet certified by CA to be uploaded)					
E	Income Tax Registration (PAN) (Copy of PAN to be uploaded)					

Sl. No	Qualifying Criteria	Details
F	Goods & Service Tax Registration (GST) (Copy of GST Registration to be uploaded) (Declaration to be uploaded if Vendor is Exempted from paying GST. For such exempted vendor, Vendor cannot claim GST from BHEL, during the execution of the contract(if awarded) even if their status under GST changes to regular tax payer.)	Details to be filled and documentary evidence to be uploaded in e-procurement portal
G	Acceptance to Scope of work, Special and General Terms and Conditions of Contract. (Duly signed and sealed copy of tender document to be uploaded)	
H	"No deviation & Declaration certificate" on bidder's Letter head as per enclosed Annexure-A2 of tender document (Duly signed and sealed copy to be uploaded.)	
Note: 1. Bidders are requested to submit only the documents required to meet the pre-qualification criteria as per tender. Documents not relevant to tender pre-qualification criteria / tender shall not be enclosed along with the offer. 2. Digitally signed / Self-attested copy of all the documents should be uploaded along with Tender, if at any stage, the document(s) submitted by Contractor is / are found incorrect / False / Fake, then necessary action will be taken by BHEL against Contractor viz., legal, Contractual, BHEL Policy / Procedural Actions in whatsoever manner as deemed fit.		

SPLITTING OF WORK : YES (AS DETAILED IN TENDER CONDITIONS)

REVERSE AUCTION : YES (REFER ANNEXURE - X)

REVERSE AUCTION CONTACT DETAILS - TO BE FILLED BY CONTRACTOR

BHEL will go for Reverse Auction (RA) after opening the sealed envelope price bid/s. submitted by the bidder. More details given under "SPECIAL TERMS & CONDITIONS OF CONTRACT".

For this purpose, the following details should be furnished **without fail, along with the offer.**

Name of work : ***Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing, roof leakage in Masonry, RCC buildings , Carpentry works, Aluminium works, False ceiling, interior decoration works, Railway tracks, gantry tracks, main water supply lines and works related to function arrangements such as Stage, Shamiana etc., for BHEL-Trichy, factory complex.***

Tender Schedule No. **CF: TS: 023 / 20 - 21**

Name of the contact person assigned for Reverse auction	To be filled in e-procurement portal
Mobile & Land line Number	To be filled in e-procurement portal
E-mail id	To be filled in e-procurement portal
FAX No. (if available)	To be filled in e-procurement portal

CHECK LIST FOR DOCUMENTS TO BE UPLOADED IN e-PROCUREMENT PORTAL

Description	Remarks
EMD	uploaded / Not uploaded
Work Experience Certificates / Work executed details	uploaded / Not uploaded
Latest Solvency Certificate	uploaded / Not uploaded
Income tax return acknowledgement (ITR), statement	uploaded / Not uploaded
PAN	uploaded / Not uploaded
GST	uploaded / Not uploaded
Signed and sealed copy of this Tender Document (all pages) no price should be written in this tender document, the price should be quoted only in e-Procurement portal)	uploaded / Not uploaded
NO DEVIATION AND DECLARATION CERTIFICATE ON BIDDERS LETTER HEAD	uploaded / Not uploaded
EPF	uploaded / Not uploaded
ESI	uploaded / Not uploaded
REVERSE AUCTION CONTACT DETAILS	uploaded / Not uploaded
DOCUMENTARY PROOF FOR COMPANY / FIRM / PROPRIETORSHIP	uploaded / Not uploaded
NEFT BANK FORMAT (If applicable)	uploaded / Not uploaded
POWER OF ATTORNEY FOR SIGNING TENDER (If applicable)	uploaded / Not uploaded

FORMAT FOR EPF & ESI DECLARATION

(To be given in Vendors Letter head if not possessing EPF / ESI / Both (EPF & ESI) at the time of submission of the tender)

To:
Manager
Civil Township Office, Kailasapuram, Trichy

Sir,

Sub: Declaration of EPF & ESI Submission – Reg.

At this time of submission of this tender -----(Tender Schedule No) I/We, -----
(Company Name) am / are not possessing the EPF / ESI / Both (EPF & ESI). I hereby declare that I will submit the EPF / ESI / Both (EPF&ESI) registration copy before placing of Work order / Commencement of Work. I / we am/are also aware that payment for work done will not be processed by BHEL without submission of EPF&ESI data paid to my / our employees engaged to the corresponding BHEL contract.

Thanking you,

Yours Truly,
For and On behalf of,

Company name & seal

Date:

Place:

Local Supplier Self-Declaration

Tender Schedule No.	CF: TS: 023 / 20 - 21
Tender hosted Date	07.05.2021

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt. 28.05.2018 & 04.06.2020. I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (.....%) defined in the above government notification for the goods/services/works against above mentioned enquiry Number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be considered as breach of Integrity and liable for action.

For Company Name:

Seal:

Signature:

Date:

Place:

(Please fill all the yellow color field)

Declaration

To:

The Manager
Civil Township Office,
Kailasapuram, Trichy

Sir,

At this time of submission of this tender ----- (Tender Schedule No) I / We, -----
(Company Name) declares that we will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, I / We ----- (Company Name), am / are found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies / guidelines.

Thanking you,

Yours Truly,
For and On behalf of,

Company name & seal

Date:

Place:

E- Invoice Declaration

To:

**The Manager
Civil Township Office,
Kailasapuram, Trichy**

Sub: Undertaking regarding Issuance of E-Invoice under GST Act

Dear Sir,

1. We hereby confirm that our Aggregate Turnover is less than 100 Crore & we are not mandated to issue E-Invoice (as per Rule No: 48 (4) of CGST Rules) w.e.f. 01/01/2021 as notified in Notification No: 61/2020-CT dated 30/07/2020.
2. We hereby confirm that our Aggregate Turnover is more than 500 Crore & we are mandated to issue E-Invoice (as per Rule No: 48 (4) of CGST Rules) w.e.f. 01/10/2020 as notified in Notification No: 61/2020-CT dated 30/07/2020. Hence, all our tax invoices issued w.e.f. 01.10.2020 will contain/ contains the QR Code, IRN, Signature obtained from *Invoice Registration Portal (IRP)* & will comply with requirements stipulated in Rule No: 45 & 48 of CGST Rules, 2017.
3. We hereby confirm that our Aggregate Turnover is more than 100 Crore but less than 500 Crore & we are mandated to issue E-Invoice (as per Rule No: 48 (4) of CGST Rules) w.e.f. 01/01/2021 as notified in Notification No: 88/2020-CT dated 10/11/2020. Hence, all our tax invoices issued w.e.f. 01.01.2021 will contain the QR Code, IRN, Signature obtained from *Invoice Registration Portal (IRP)* & will comply with requirements stipulated in Rule No: 45 & 48 of CGST Rules, 2017.

Thanking you,

Yours Truly,
For and On behalf of,

Company name & seal

Date:

Place:

(Strike out whichever is not applicable)

(This undertaking should be issued in company letterhead & to be signed by Authorised Signatory.)

This explains how to make Payments to BHEL - Tiruchirappalli and through SBI-E-collect. Vendors (EMD and SD Payments payable by others) can utilize this facility. payments can be made using Internet Banking, Debit Cards / Credit Cards etc. SBI Charges a minimum amount (Service Charges) for every transaction. This may vary according to the MODE selected.

STEP BY STEP PROCEDURE:

Login to <http://www.onlinesbi.com>

1. Select State Bank Collect available on the top (pre login page)
2. Accept the terms and conditions and click "PROCEED"
3. Select State "TAMILNADU" and Institution type "INDUSTRY".
4. Select "BHEL TRICHY" under "INDUSRY"
5. In the next page, Select APPROPRIATE category, fill details correctly & click "SUBMIT".
6. If all details entered are correctly populated, click "CONFIRM" to proceed.
7. Make payment as per your convenience. (Options available are payment of fees through SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches).
8. Save & Keep the copy of receipt for future reference.

HOW TO TAKE RECEIPT FOR A PAYMENT MADE, EVEN ON LATER DATE:

(PLEASE CHECK THE STATUS BEFORE MAKING PAYMENT SECOND TIME)

1. Login to www.onlinesbi.com
2. Select State Bank Collect available on the top (pre login page)
3. Accept the terms and conditions and click "PROCEED"
4. Select "PAYMENT HISTORY" option available on the left side of screen.
5. Using two options as mentioned below, you can get the receipt:
 - a) Type the same Date of Birth, Mobile Number which you have entered at the time of making payment through SB collect. Select the date range and submit.
 - b) If you know the payment reference number, then enter the Reference number (DU...) along with anyone information (Date of Birth / Mobile Number which you have entered at the time of making payment). Select the date range and submit.
6. In the next page, take print out of receipt.

No deviation and Declaration to be given by vendor in vendor's letter head**Name of work:****Tender Schedule No:**

We, the vendor, do hereby declare that we do not have any deviations to the tender terms and conditions as per

1. Technical Bid-Qualifying Criteria-Price bid
2. Special and General terms & Conditions of Contract

We have gone through all the tender terms and conditions; we have noted down the job content & site conditions. We have quoted our offer for all items by taking care of unit of measurement given in the Bill of quantities against individual items. In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void. We assure that no tampering was done to any part of tender document by us and if otherwise will lead to rejection of our bid. We confirm to have submitted our offer strictly in accordance with tender instructions.

We also hereby confirm the following points with ref to the above works, if ordered on us:

1. We do hereby confirm that we will pay (i) at least the minimum wages (minimum basic wages + minimum DA) to all the persons engaged (Un Skilled / Semi-Skilled / Skilled /Supervisor category) by us in the above contract as per the Tamilnadu Government Minimum Wages Act - 1948 & also as per any revisions made by the State Govt. from time to time and (ii) Additional Wages as per HR / BHEL circular ref: BHE: HR: W: EW dt. 08.04.2014 and (iii) Bonus as per the Bonus Act-1965 along with Wage.
2. ESI, PF & Bonus (both Employer and Employee contributions) amounts are to be remitted for total wages to be paid as mentioned in (i) & (ii) of point 1 and challans to be produced along with invoices for all the respective persons engaged in the above contract.
3. The quoted amount in this tender will remain firm throughout the entire Contract period and no extra payment against service charges will be claimed from BHEL under any circumstances from our end.
4. We, the contractor, will disburse the salary/wages to all the persons engaged in the contract ONLY through nationalized banking channel in their respective accounts & the relevant Bank statement / proof for Bank payment will also be produced along with PF and ESI challans to the Welfare Section every month for processing our invoices for payment.
5. We will pay the previous month salary in full to our employees before 7th of every month and will not adjust any advance / loan / repayment due by the employee to us.
6. All the payments to the persons engaged in the contract will be paid ONLY through nationalized bank. No other mode of payment (hand payment / account transfer as advance payment or any other) is acceptable as salary.
7. In case we fail to pay the minimum wages to all the persons engaged in the contract which includes Minimum wages and Additional wages with ESI and PF (both Employee and Employer contributions) for every month including Bonus, BHEL has the right to recover from the outstanding payments to us either under this Contract or in any other Contract(s) or from Security Deposit or from both. In case this amount is insufficient for such recoveries, we shall make good the balance amount by actual payment. In addition, BHEL, Trichy may recover the said amounts through other running contracts from BHEL's sister units.
8. We also confirm to all the Terms & Conditions as per your above referred Enquiry & as per our offer submitted against the same.
9. We also declare that, we have not been suspended or black listed or issued with Show Cause Notice by BHEL Trichy-14 or any other BHEL Unit or any PSU / Government organization.

The tender must be signed digitally / physically by Propreitor / Managing Partner / Director of the Firm. If any other person is authorized to sign the tender, this copy of Power of Attorney must accompany the tender.

POWER OF ATTORNEY

(To be typed on company's letter head)

I / We do hereby make, nominate, constitute and appoint Mr , whose signature given below herewith to be true and lawful Attorney of M/s hereinafter called 'Company', for submitting Tender and inter alia, sign, execute all papers and to do necessary lawful acts on behalf of our Company with M/s Bharat Heavy Electricals Ltd, HPBP, TRICHY-620 014, in connection with (Name of work)

.....

vide Tender Schedule No: _____, dated _____. And the Company do hereby agree to ratify and confirm all acts, deeds, things or proceedings as may be lawfully done by the said attorney and by or on behalf of the company and in the name of the company, by virtue of the powers conferred herein and the same shall be binding on the company and shall have full force and effect.

Director / CMD / Partner / Proprietor

Signature of Mr.....(Attorney)

Attested by: Director / CMD / Partner / Proprietor

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI – 620 014
CIVIL ENGINEERING DEPARTMENT (FACTORY)**

BHE: M: C: P:

Dt. 07 05 2021

To

The Tenderer

Dear Sirs,

Sub: **Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing, roof leakage in Masonry, RCC buildings , Carpentry works, Aluminium works, False ceiling, interior decoration works, Railway tracks, gantry tracks, main water supply lines and works related to function arrangements such as Stage, Shamiana etc., for BHEL-Trichy, factory complex.**

Ref: Tender Schedule No. **CF: TS: 023 / 20-21**

Please find enclosed / attached non-transferable tender document containing

Techno-commercial bid consisting of Preamble, Specifications, General Conditions of Contract, Norms for Qualification and Qualification Pro form, Bill of Quantities to offer your most competitive rates for all the items.

TENDERS must be submitted electronically by logging to e-procurement portal <https://eprocurebhel.co.in>
Physical submission of tender shall not be accepted.

EMD:

EMD may be submitted in the form of

- (i) Electronic Fund Transfer credited in BHEL account (before Tender opening) or
- (ii) Demand Draft (DD) in favour of BHEL Trichy or
- (iii) Fixed Deposit Receipt (FDR) issued by schedule banks/ Public Financial Institutions as defined in the Companies Act

(FDR should be in the name of the Contractor, a/c BHEL and affix one rupee (Rs.1/-) revenue stamp & sign on back side of FDR, In case, the same discharged FDR submitting second time as EMD “A Lien-Confirmation letter” issued from Bank must be submitted along with FDR). For vendors who are unsuccessful in the tender, who submitted FDR, it will be returned in person only.

In case of offline payments, the hardcopies of EMD documents i.e. DD/FDR submitted to Manager / Civil / Township office, BHEL, Trichy before tender opening and the soft-copies to be uploaded at the time of online bid submission, otherwise the tender will be summarily rejected.

Bidder should arrange for the EMD as specified in the tender. The original EMD should be posted/couriered/given in person in a sealed cover **super scribing “Name of Work” “Tender Schedule Number & date”** to the Tender Inviting Authority, within the bid submission date and time for the tender.

NOTE: - EMD waiver not applicable for MSE / NSIC / SSI vendors for this tender (Hence, vendors should furnish EMD of specified amount without which their bids will not be considered).

The completed qualification bid, Price Bid, Special Conditions of Contract and Standard conditions of Contract along with required documents and EMD of **Rs. 1,44,000.00 (Rupees One Lakh Fourty Four Thousand only)** shall be uploaded in e-procurement portal on or before **18.05.2021 @ 10:00 Hrs.** The qualification bid will be opened on **18.05.2021 @14:00 hrs.** through e-procurement portal. In case of opening day falls on holiday or happened to be declared as a holiday, the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the qualification bid.

Thanking you,

Encl:

E Format in Page No. 38 "Acceptance for Electronic fund transfer / RTGS Transfer" should be compulsorily filled by the new vendors and submitted along with an original cancelled cheque leaf is to be attached.

Yours faithfully
For and on behalf of
BHARAT HEAVY ELECTRICALS LIMITED,

Manager
Civil Township Office



**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI – 620 014
CIVIL ENGINEERING DEPARTMENT (FACTORY)**

TENDER CONDITION

1. The scope of work involves **Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing, roof leakage in Masonry, RCC buildings , Carpentry works, Aluminium works, False ceiling, interior decoration works, Railway tracks, gantry tracks, main water supply lines and works related to function arrangements such as Stage, Shamiana etc., for BHEL-Trichy, factory complex.**

2. **Split and Award conditions for maximum of 2 Contractors:**

This tender works will be awarded to maximum of two contractors only and the condition of distribution will be as per the table given below. The offer to Tenders to accept L1 rate will be in the order of the value quoted by them, Lower to Higher, i.e. L2, L3, L4 etc.

Counter-offering split ratio in case of maximum 2 Contractors (including L1)				
No. of L1 vendors	No. of Counter-offer accepted L2 vendors	Splitting Ratio		
1	1	L1 : L2	::	60:40
	0	L1	::	100

Note: In the table above, L2 refers to the next lowest bidder accepting L1 rate. The initial work order to the contractors will be issued in such a way that any outstanding work on contractor does not exceed 60% & 40% of Tender value for L1 & L2, respectively. In case of non-performance, within stipulated time, for reasons other than BHEL, the work split may be altered, to other performing vendors. In case of tie in the rates quoted by the tenderers and if there is a requirement to break the tie in order to limit the number of contractors as per the terms given in Para 1 above, then the same will be decided based on Lot system, either in the presence of available Tenderers at the time of price bid opening or by giving 48 hours prior information to the Tenderer.

"In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.

In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L-1 bidder(s) of their representative(s).

Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding."

3. The work is split into number of sub works and sub work orders will be issued to each sub work. Though the period of contract is as mentioned in the QB, each sub work must be completed before its completion period as mentioned in its Sub work order.

4. The contractor is required to carry out contract activities as directed by the department officials. It is required to engage certain minimum strength of staff for effective supervision of works.

5. In addition, Quantity surveyors have to be engaged to prepare measurements and submit the bills.



**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI – 14
HUMAN RESOURCE MANAGEMENT**

Ref No.TP:HR: Contract Cell:MW

Date: 19/04/2021

CIRCULAR

To

ALL CONTRACT AWARDING / EXECUTING OFFICIALS


Sub: Minimum Wages Act, 1948 – Revision of Dearness Allowance for employment in “General Engineering and Fabrication Industry – Reg.

Ref: Notification No.Z3/6667/2021 dated 16/03/2021 by Office of the Commissioner of Labour, Chennai – 600 006.

Consequent upon the increase in Dearness Allowance payable under the Minimum Wages Act from Rs.5209/- to **Rs.5717/-** per month to those employed in “General Engineering and Fabrication Industry”, the Statutory Minimum Wages applicable to the contract workmen would be as follows with effect from 01/04/2021:

S.No.	Category	Minimum Basic Wages per day (in Rs.)	Minimum DA per day (in Rs.)	Total Minimum Wages per day (in Rs.)
1	Unskilled Worker	258.50	219.88	478.38
2	Semi-Skilled Worker	271.00	219.88	490.88
3	Skilled Worker	278.50	219.88	498.38
4	Supervisor	295.00	219.88	514.88

All Contract Awarding / Executing Executives are requested to ensure that the contractors make payment of wages to their workers not less than the above Statutory Minimum Wages along with BHEL Additional Wages as stipulated in the respective work order.


 (M. Soosai Michael Raj)
 SDGM (HR-Est, Law & Contract Cell)



**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI – 620 014
CIVIL ENGINEERING DEPARTMENT (FACTORY)**

Special Conditions of Contract for Annual Maintenance Contracts

- 1) *There exist five different work areas (North, South, External, SSTP & Unit II) in the factory complex ~~and 8 Sectors (A, B, C, D, E&R and K&N) in Township complex~~. Hence, the contractor shall ensure that himself or his authorised representative visits and meets the Engineer in-Charge of the respective areas where work is allocated to the contractor to receive work instructions / complaints on daily basis by 8:00 A.M / 9:00 AM as instructed by Engineer-in-charge.*
- 2) *If the Contractor / his representative fails to turn up to the office of the Engineer in-charge to receive the complaints / instructions by 09:00 AM, it will be considered as “Absent” and recovery for non-deployment of supervisor will be levied at the prevailing minimum wages (including statutory requirements i.e. PF, ESI, etc.) and BHEL Additional Wages along with additional 5 % over heads will also be recovered ~~from the date of LOL~~.*
- 3) *Sub work orders will be issued through e-mail under this contract with specific completion period. Sub work orders will be classified as “Maintenance” and “other” works.*
- 4) *The contractor shall commence the works immediately after the issue of Sub work order issued through email.*

If the contractor fails to commence the work even after lapse of 7 days from issue of sub work order through email, a penalty of Rs 1000/- per day of delay will be imposed from 8th day onwards if the delay is attributable to the contractor.

If the contractor fails to commence the works even after 14 days from the date of issue of sub work order through email, the engineer in-charge may cancel the sub work order and execute the same, by engaging alternate agency at the risk and cost of the contractor without any further notice.

5) For the sub work orders classified as “Other”

- a) *Immediately after issue of “Other” category sub work order and before work is to begin, the Engineer-in-charge and the Contractor shall agree to a Time and Progress Chart with due consideration of completion date given in the sub work order. In any case the completion date given in the sub work order can’t be extended without proper approval from the competent authority which has to be substantiated with documents such as Hindrance register etc., Hindrance register shall be maintained by Engineer in Charge.*
- b) *In the absence of any specific Time and Progress chart to be agreed between the Contractor and the Engineer-in-charge, the contractor shall ensure and maintain uninterrupted progress of the work such that the entire work shall be completed within the time imposed in the other category sub work order and that the proportion of work completed up to any time in relation to the entire work to be under the sub work Order shall not be less than the proportion that the time elapsed bears to the total time of completion provided in the other category sub work order.*

- c) If the contractor fails to complete the “other” category sub work orders within the stipulated completion date as mentioned in the sub work order or as per the due date for completion as approved by the Engineer in-Charge, which is binding both the parties, Liquidated Damage will be imposed (Ref Clause 7).

6) For the sub work orders classified as “Maintenance”

- a) The Maintenance complaints under maintenance category sub work orders have to be attended / resolved at the end of day or within the time as decided by the Engineer in charge.
- b) If the contractor fails to complete the maintenance complaint within the completion schedule as communicated by Engineer-in-charge under Maintenance category work, the engineer in-charge shall attend the complaint by engaging alternate agency without any further notice. A penalty shall be recovered from the defaulting contractor as given below.

$$\text{Penalty Amount} = [(A-B) + (A \times H/100)]$$

Where,

A = Value of work executed by engaging alternate agency.

B = Value of Work as per awarded rates to the defaulting contractor

H = Overhead Factor to be taken as 5.

In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).

When the cumulative penalty amount imposed under any “Maintenance” category sub work order for not attending any complaint / delay in attending complaint exceeds 5 % of that particular Sub work order value, the Engineer in charge may cancel that sub work order & execute the same at risk & cost of contractor without any further notice.

7) LIQUIDATED DAMAGES

- a) If the contractor fails to maintain the required progress of work which results in delay in the completion of the work as per the contractual completion period, BHEL shall have the right to impose Liquidated Damage at the rate of 1% of Sub Work order value per week or part thereof delay subject to a maximum of 10 % of Sub Work order value.
- b) **Sub Work order value** - Value for this purpose, shall be the final executed value only, by the contractor.
- c) if the contractor fails to complete the other category sub work orders for reasons of delay, attributed to the contractor, where delay occurred is such that
- i) even after the imposition of LD at 10 % (or)
 - ii) with delay period attributable to the contractor has equalled / exceeded half the original delivery period specified in the sub work order.

whichever among the above is earlier,
the engineer in-charge may cancel the sub work order and execute the balance work by engaging alternate agency at the risk and cost of the contractor.

8) Risk & Cost Clause

Risk & Cost Clause, in line with Conditions of Contract may be invoked in any of the following cases:

- a) Contractor's poor progress of the work vis-à-vis execution timeline as stipulated in the Contract, backlog attributable to contractor including unexecuted portion of work does not appear to be executable within balance available period (#) considering contractors performance of execution.*
- b) Withdrawal from or abandonment of the work by contractor before completion of the work as per contract.*
- c) Non completion of work by the Contractor within scheduled completion period as per Contract or as extended from time to time, for the reasons attributable to the contractor.*
- d) Termination of Contract on account of any other reason (s) attributable to Contractor.*
- e) Assignment, transfer, subletting of Contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.*
- f) Non-compliance to any contractual condition or any other default attributable to Contractor.*
- g) Non Commencement of Work within the period as mentioned in the contract.***
- h) If Penalty Amount exceeds 5 % of Sub work order value for the Maintenance category of Sub work orders (Ref clause 6).***

In-case inputs from BHEL/Customer are likely to be delayed or are actually delayed, this delay may also be taken into account while considering balance period available for execution of Contract.

$$\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$$

Where,

A = Value of Balance scope of Work/ Supply (*) as per rates of new contract

B = Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of Sub work order i.e. inclusive of PVC & ORC, if any.

H = Overhead Factor to be taken as 5

In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).

****(Balance scope of work/ supply)***

NOTE: In case portion of work is being withdrawn, Sub work order quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work/supply' for calculating Risk & Cost amount.

Difference of Sub work order Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Sub work order', shall be taken as balance scope of Work/ Supply for calculating risk & cost amount.

Sub work order quantities are the quantities as per original Sub work order. If, Sub work order has been amended, quantities as per amended Sub work order shall be considered as Sub work order Quantities. Items for which total quantities to be executed have exceeded the Sub work order Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be Sub work order quantities.

Substitute / extra items whose rates have already been approved would form part of Sub work order quantities for this purpose. Substitute / extra items which have been executed but rates have not been approved, would also form part of Sub work order quantities for this purpose and rates of such items shall be determined in line with contractual provisions.

However, increase in quantities on account of additional scope in new contract shall not be considered for this purpose.

In addition to Penalty (If any) Risk & cost, LD for completed work as spelt in Clause 9 shall also be levied.

9) LD against delay in executed work/supply in case of Termination of Contract

- a) LD against delay in executed work shall be calculated in line with LD clause of the contract for the delay attributable to contractor.
- b) For this case, **Contract value** shall be taken as Executed Value of work for the purpose of limiting maximum LD value-
- c) Method for calculation of "**LD against** delay in executed work" is given below.
 - i) Let the time period from scheduled date of start of work till termination of Sub work order excluding the period of Hold (if any) not attributable to contractor/supplier= T1
 - ii) Let the value of executed work till the time of termination of Sub work order = X
 - iii) Let the Total Executable Value of work for which inputs/fronts were made available to contractor and were planned for execution till termination of Sub work order = Y
 - iv) Delay in executed work/supply attributable to contractor i.e.

$$T2 = (1 - (X / Y)) \times T1$$

- d) LD shall be calculated in line with LD clause of the Contract for the delay attributable to contractor taking "**X**" as Contract Value and "T2" as delay attributable to contractor.

- 10) Any tools/spares/machinery (other than free issue materials) issued by BHEL on written request by contractor will be on chargeable basis and based on availability. The charges shall be decided by BHEL and are final.

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI - 620 014

CIVIL ENGINEERING DEPARTMENT (FACTORY)

NOTICE INVITING TENDER

1.	Name of Work	:	Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing, roof leakage in Masonry, RCC buildings , Carpentry works, Aluminium works, False ceiling, interior decoration works, Railway tracks, gantry tracks, main water supply lines and works related to function arrangements such as Stage, Shamiana etc., for BHEL-Trichy, factory complex.
2.	Estimated Cost	:	Rs. 120.00 Lakhs + Applicable GST
3.	Tender Evaluation Cost (60% max based on split and award condition for 2 vendors)	:	Rs. 72.00 Lakhs
3.	Earnest Money Deposit	:	Rs. 1,44,000/- (Rupees One Lakh Fourty four Thousand only)
4.	Completion time	:	15 (Fifteen) months (From the date of commencement of the work which will be reckoned from the date of handing over to the Contractor)
5.	Last Date of Receipt of Tenders	:	18.05.2021 @ 10:00 hrs.
6.	Date of Tender opening	:	18.05.2021 @ 14:00 hrs.
7.	Maintenance Period	:	06 (Six) Months (from the date of actual completion of the entire work and handing over to Bharat Heavy Electricals Limited)

ISSUING OFFICER

CONTRACTOR

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ACCEPTING OFFICER

C.A.....Date
(To be used in conjunction with BHE Ltd., General Conditions of Contract)

AUTHORITY TO TENDER

Office of the
The Manager
Civil Township Office,
Kailasapuram, Trichy

Tender Schedule No. **CF: TS: 023 / 20-21**

Percentage rate / tender for works required in **"Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing, roof leakage in Masonry, RCC buildings , Carpentry works, Aluminium works, False ceiling, interior decoration works, Railway tracks, gantry tracks, main water supply lines and works related to function arrangements such as Stage, Shamiana etc., for BHEL-Trichy, factory complex."**

Messrs. 'are / is hereby authorized to tender for the above work.

BHARAT HEAVY ELECTRICALS LIMITED DO NOT BIND THEMSELVES TO ACCEPT THE LOWEST OR ANY TENDER

Issuing Officer with
Designation

Contract Agreement No.....

SCHEDULE 'A'

LIST OF WORKS AND PRICES

DETAILS & QUANTITIES of each item of work shown in the BILL OF QUANTITIES are only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the BILL OF QUANTITIES

BILL OF QUANTITIES

Sl. No.	Appx. Qty.	Description of work	TNBP No.	Rate (Both in Unit fig & Words	Amount Rs. Ps.
AS PER SEPARATE SHEETS ATTACHED SHEETS IN PRICE BID					

'SCHEDULE B'

1. The following materials will be issued FREE of cost to contractor at BHEL Stores / Stock yard if specified in the BOQ and specifications.

Sl. No.	DESCRIPTION	PLACE OF ISSUE
1	Cement	BHEL Stores or Stock yard
2	M.S Rounds, C.T.D Bars & Structural Steel, rails and all railway materials	BHEL Stores or Stock yard

2. It will be the responsibility of the Contractor to submit his demands for the above stores in writing atleast seven days in advance of the actual requirement.
3. Issue of Stores is subject of the availability at the place of issue cited above, items of stores to be issued by BHEL which are not available at the time of indenting by the contractor may be supplied by BHEL after necessary procurement. The contractor shall not be entitled to any claim of compensation for delay in the supply of stores by BHEL under any circumstances.
4. The materials will be issued only during the working hours of the BHEL Stores Department (8.00 a.m. to 4.30 p.m.). Contractor shall have to transport them to the site of work at his own cost as soon as they are issued to him.
5. The steel materials if issued will be in random lengths and sizes as stocked by the BHEL and the cost of all cutting, conversion, substitution and fabrication as well as wastage shall have to be borne by the Contractor.
6. The contractor shall from time to time render proper account of all materials issued to him by BHEL. If he fails to do so, no further issue of materials will be made to him and he will be held responsible for any delay in the execution of the work which may occur on this account.
7. Where A.C. Sheets and accessories, Doors, Windows, Sanitary fittings, Special glasses or other items are issued free of cost to the contractor, the contractor will have to make good at his own cost any loss or damage to any part or whole of the items issued to him as above. All wastage within the premises limits as fixed by BHEL will be charged for at the prescribed issued rates of BHEL. Excess wastage will be charged for at punitive rates which will be 100% higher than the issue rates.
8. All surplus materials in good condition which are not returned to the BHEL Stores as also quantities of materials consumed in excess of the max. permissible limit as fixed by BHEL shall be charged for at punitive rates.
The decision of the Senior Engineer / Dy. Manager / Manager as to the extent to which materials have been rendered surplus or consumed in excess of the actual requirements shall be final and conclusive and binding on the contractor.

SCHEDULE 'C'

ISSUE OF TOOLS AND PLANTS TO CONTRACTORS

Sl. No.	Qty.	Particulars	Details of BHEL Crew Supplied	Hire Charges Per unit Per Day	Place of Issue	Remarks
.....Nil.....						

- a. Machineries shall not be operated over time without the written permission of the Sr. Engineer / Dy. Manager / Manager.
- b. All Coolies, Watermen etc., required in addition to BHEL crew mentioned in column 4 above shall be arranged by the contractor at his own expense.

SCHEDULE 'D'

NOTE : All Drawings are to be signed by the Contractor as well as the officer entering into contract.

SL. No.	DRAWING NUMBER	DESCRIPTION
1	NIL	NIL

SCHEDULE 'E'

LEAD STATEMENT

Sl. No.	Name of Material	Name of Source	Lead Particulars both for Factory and Township
1		BHEL	2 – 10 Km

TENDER

To

MANAGER

Civil Township Office

Bharat Heavy Electricals Limited

Unit : Tiruverumbur

TIRUCHIRAPPALLI – 620 014.

I / We hereby offer to carry out the tendered work.

I / We hereby carefully perused the following documents connected with the above noted work and agree to abide the same.

1. Specifications (General & Particular)
- ~~2. Drawings IF ANY~~
3. Schedule 'A', 'B', 'C', 'D' & 'E' and Bill of Quantities attached hereto.
- ~~4. Schedule or rates~~
5. BHE Ltd., General & Special Conditions of Contract, Tender Notice and Instructions to Tenders attached hereto.

I / We forward herewith the sum of Rs.....as Earnest Money, which shall be refunded should this tender be rejected. I / We further agree to deposit such sum which along with the sum of Rs.....mentioned above shall make up 50% of the fully Security Deposit for this work as provided for under conditions of the BHARAT HEAVY ELECTRICALS LIMITED General Conditions of Contract.

I / We further agree to execute all the work referred to in the said documents upon the terms & condition contained or referred therein and as detailed in Schedule 'A' and Bill of Quantities annexure thereto an to carry out such deviations as may be ordered, vide conditions 6 of the BHEL Ltd., General Conditions of Contract upto a maximum of 20% of the tendered of Rs.....

I / WE further agree to refer all disputes, as required by condition 62 of the General conditions of Contract to the sole arbitration of an Officer, to be appointed by the General Manager, B.H.E. Ltd., in his sold discretion whose decision shall be final and binding.

WITNESS

Signature of the Contractor

Date :

1.

2.

GENERAL SUMMARY

- | | | |
|----|--|-----|
| 1. | (a) Net Cost of works or building etc., from Schedule 'A' and Bill of quantities annexed thereto | Rs. |
| 2. | Provisional sum | Rs. |

Total

Rs.

Rupees.....

.....Shri.....

..... in the capacity of has been duly
authorized by me / use to sign the tender for and on behalf of

..... (in block letters)

Date :

SIGNATURE OF CONTRACTOR

Witness :

Postal Address :

1.....
Address

Telephone No.

2.
Address

CONTRACTOR

ACCEPTING OFFICER

..... alternations have been made in the Tender Document and as evidence that these alternations were made before the execution of contract agreement, they have been initialed by the Contractor and the

.....
.....
..... is hereby authorized to sign and initial on my behalf the documents forming part of this contract (Number of alternation in figures and words to be given me)

The above tender is accepted by me on behalf of the Bharat Heavy Electricals Limited, Unit Thriuverumbur, Tiruchirappalli – 620 014. for a sum of Rs..

.....
.....
..... at the item rates as indicated in the Bill of Quantities attached to Schedule 'A'.

Signature Date.....

Designation

E FORMAT

THE PURCHASE/CONTRACT EXECUTING AGENCY/BHEL ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

01	Name & Address of the Supplier / Sub-contractor											
02	VENDOR CODE assigned by BHEL											
	Details of Bank Account:											
03	NAME & ADDRESS OF THE BANK											
04	NAME OF THE BRANCH											
05	BRANCH CODE											
06	MICR CODE	<table border="1" style="width: 100%; height: 20px;"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
07	ACCOUNT NUMBER											
08	TYPE OF ACCOUNT	CURRENT A/C / OD / CASH CREDIT										
09	BENEFICIERY'S NAME											
10	IFSC CODE OF THE BRANCH	<table border="1" style="width: 100%; height: 20px;"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
11	EMAIL ID											
12	TELEPHONE/MOBILE NO.											

CERTIFICATE

I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED by the National Electronic Funds Transfer and/or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account is a valid discharge of the liability of Bharat Heavy Electricals Limited. I / We also agree to bear the applicable Bank Charges for the above mode of transfer. **A copy of the cheque leaf / cancelled cheque leaf of the above account is sent herewith.**

AUTHORISED SIGNATORY WITH NAME SEAL

Banker's Certification

We confirm that we are enabled for receiving RTGS and NEFT credits and we further confirm that the account number of _____ (name of account holder), the signature of the authorized signatory and the MICR and IFSC codes of our Branch mentioned above are correct.

PLACE:

DATE :

(Manager / Officer's)

**Signature Under Bank stamp and Name Seal
With Membership No.**

(Telephone / Mobile No.)

Forwarded to Accounts Dept.

We confirm the above details are verified with the records available with us.

Signature of the BHEL Executive with Name Seal (Operating the Contract/Services)

SIGNATURE OF THE APPLICANT

CONTRACTOR

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ACCEPTING OFFICER

PART-II _ PRICE BID (PB)
(BILL OF QUANTITIES)

(No rate shall be written here. Quote based on this BOQ should be given online in xl-format, only in eProcurement portal)

Name of work : ***"Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing, roof leakage in Masonry, RCC buildings , Carpentry works, Aluminium works, False ceiling, interior decoration works, Railway tracks, gantry tracks, main water supply lines and works related to function arrangements such as Stage, Shamiana etc., for BHEL-Trichy, factory complex."***

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
1	0101A	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. All kinds of soil except rock	M3	125.80
2	0101B	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Ordinary rock	M3	201.70
3	0101C	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Hard rock (requiring blasting)	M3	363.55
4	0101D	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Hard rock (blasting prohibited)	M3	410.75
5	0102A	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. All kinds of soil except rock.	M3	138.40

CONTRACTOR SEAL & SIGN

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ACCEPTING OFFICER

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
6	0102B	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Ordinary rock.	M3	221.85
7	0102C	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (requiring blasting).	M3	399.90
8	0102D	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (blasting prohibited)	M3	451.80
9	0103A	Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. All kinds of soil except rock	M3	178.10
10	0103B	Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Ordinary rock	M3	188.55
11	0103C	Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Hard rock (requiring blasting)	M3	334.30
12	0103D	Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Hard rock (blasting prohibited)	M3	400.90

CONTRACTOR SEAL & SIGN

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ACCEPTING OFFICER

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
13	0104	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed All kinds of soil	M2	35.40
14	0105	Surface dressing of the ground in all kinds of soil (excluding rock) including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m	M2	8.70
15	0106A	Open timbering in trenches including strutting and shoring complete. (Measurements to be taken of the face area timbered) Depth not exceeding 1.5 metre	M2	52.25
16	0106B	Open timbering in trenches including strutting and shoring complete. (Measurements to be taken of the face area timbered) Depth exceeding 1.5 metre but not exceeding 3 metre	M2	55.20
17	0106C	Open timbering in trenches including strutting and shoring complete. (Measurements to be taken of the face area timbered) Depth exceeding 3 metre but not exceeding 4.5 metre	M2	60.10
18	0107A1	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and/ or liquid mud, including pumping out water as required. All kinds of soil except rock	M3	25.15
19	0107A2	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and/ or liquid mud, including pumping out water as required. Ordinary rock	M3	40.35
20	0107A3	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and/ or liquid mud, including pumping out water as required. Hard rock (requiring blasting)	M2	72.70

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
21	0107A4	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and/ or liquid mud, including pumping out water as required. Hard rock (blasting prohibited)	M3	82.15
22	0107A5	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under water and/ or liquid mud, including pumping out water as required All kinds of soil except rock	M3	35.60
23	0107A6	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under water and/ or liquid mud, including pumping out water as required Ordinary rock	M3	37.70
24	0107A7	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under water and/ or liquid mud, including pumping out water as required Hard rock (requiring blasting)	M3	66.85
25	0107A8	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under water and/ or liquid mud, including pumping out water as required Hard rock (blasting prohibited)	M3	80.20
26	0107A9	Extra for earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed. All kinds of soil in or under water and/ or liquid mud, including pumping out water as required	M2	7.10
27	0107A10	Extra for Surface dressing of the ground in all kinds of soil (excluding rock) including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m in or under water and/ or liquid mud, including pumping out water as required.	M2	1.75

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
28	0107B1	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. All kinds of soil except rock	M3	31.45
29	0107B2	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. Ordinary rock	M3	50.45
30	0107B3	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. Hard rock (requiring blasting)	M3	90.90
31	0107B4	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. Hard rock (blasting prohibited)	M3	102.70
32	0107B5	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under foul position, including pumping out water as required. All kinds of soil except rock	M3	44.55
33	0107B6	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under foul position, including pumping out water as required. Ordinary rock	M3	47.15

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
34	0107B7	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under foul position, including pumping out water as required. Hard rock (requiring blasting)	M3	83.60
35	0107B8	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. In or under foul position, including pumping out water as required. Hard rock (blasting prohibited)	M3	100.25
36	0107B9	Extra for earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of ex-cavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed All kinds of soil in or under foul position, including pumping out water as required.	M2	8.85
37	0107B10	Extra for Surface dressing of the ground in all kinds of soil (excluding rock) including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m in or under foul position, including pumping out water as required. Note :The extra percentage is applicable in respect of each item, but limited to quantities of work done in these difficult conditions. The unit, namely , metre depth, to be considered for payment, shall be the depth measured from the sub soil water level upto the centre of gravity of the quantity executed in difficult conditions. The depth shall be reckoned correct to 0.10 metre, 0.05 metre or more shall be taken as 0.10 metre and less than 0.05 metre ignored.	M2	2.20
38	0108A	Extra for every additional lift of 1.5 metre or part thereof in : All kinds of soil excluding rock.	M3	32.45
39	0108B	Extra for every additional lift of 1.5 metre or part thereof in : Ordinary or hard rock	M3	58.20
40	0109	Extra for every additional lead of 10 metre or part thereof over the initial lead for all kinds of soil.	M3	32.45
41	0110	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete.	M3	502.95
42	0111	Supply and spreading/filling with stone dust complying with standard specifications	M3	250.40
43	0112	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift up to 1.5 m etc. complete.	M3	78.90
44	0117A	Extra rate for consolidation of bunds etc. by means of the following, including watering. Hand roller	M3	9.65

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
45	0117B	Extra rate for consolidation of bunds etc. by means of the following, including watering. Power roller including hire charges.	M3	16.15
46	0118	Benching hard rock upto an average 10 cm depth	M2	315.70
47	0119A	Drilling holes in hard granite/RCC structure: 45 mm dia.	RM	123.70
48	0119B	Drilling holes in hard granite/RCC structure: 50 mm dia.	RM	147.35
49	0119C	Drilling holes in hard granite/RCC structure: 75 mm dia.	RM	167.35
50	0120	Bailing or pumping out water from trenches, foundations etc., at all depths wherever necessary as per standard specifications.	Hp/Hr	65.05
51	0121	Clearing grass and removal of rubbish upto a distance of 50 metre	M2	2.30
52	0122	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1 metre above ground level and removal of rubbish upto a distance of 50 metre.	M2	4.50
53	0123A	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 30 cm girth upto and including 60 cm girth	EA	139.20
54	0123B	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 60 cm girth upto and including 120 cm girth	EA	613.65
55	0123C	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 120 cm girth upto and including 240 cm girth	EA	2,831.15
56	0123D	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Above 240 cm girth	EA	5,682.55
57	0124	Supplying Chlorpyriphos / Lindane emulsifiable concentrate of 20 % (chemical emulsion) in sealed containers at site of work.	Ltr.	176.10
58	0125	Labour charges for pre-constructional anti-termite treatment by diluting and injecting chemical emulsion which will be supplied by BHEL at free of cost and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth, surrounding of pipes and conduits etc. complete , all as per standard specification. (Plinth area of building at ground floor only shall be measured for payment)	M2	142.65

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
59	0126	Diluting and injecting pre-constructional anti-termite treatment by chemical emulsion and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth, surrounding of pipes and conduits etc. complete , all as per standard specification. (Plinth area of building at ground floor only shall be measured for payment). Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge.	M2	477.25
60	0127A	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall and rodding etc. complete.	RM	11.35
61	0127B	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.	RM	17.40
62	0127C	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment of soil under existing floors, using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm dia holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor. (Requirement of chemical emulsion Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 5 litre / 9 SQM)	M2	90.60
63	0127D	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole. (Requirement of chemical emulsion - Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	13.50
64	0127E	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/Lindane (in oil or kerosene based solution) @ 0.50 litre per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. Rate includes cost of kerosene but excludes chemical. (Requirement of chemical emulsion Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	123.80
65	0128A	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for postconstructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall and rodding etc. complete.	RM	66.30

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
66	0128B	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.	RM	72.35
67	0128C	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Treatment of soil under existing floors, using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm dia holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor.	M2	361.95
68	0128D	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole.	RM	96.55
69	0128E	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Treatment at points of contact of wood work by chemical emulsion (in oil or kerosene based solution) @ 0.50 litre per hole by drilling 6 mm dia. holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. Rate includes cost of kerosene, chemical emulsion.	RM	206.80
70	0129	Hire charges for engaging earth moving machinery (Hydraulic Excavator) to attend to channelling works at river bed, pipe line burst works, cleaning the areas including uprooting thorny plants/heavy jungles/trees etc. of all heights and levelling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire, fuel, operation charges, to and fro charges for machinery, all labour and all other incidentals etc., complete.	Hr.	1,100.00
71	0201A	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:1:2 with graded stone aggregate 20 mm nominal size.	M3	2,019.90
72	0201B	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:1.5:3 with graded stone aggregate 20 mm nominal size.	M3	1,972.65
73	0201C	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:2:4 with graded stone aggregate 20 mm nominal size.	M3	2,043.75

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
74	0201D	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:2:4 with graded stone aggregate 40 mm nominal size	M3	1,866.15
75	0201E	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:3:6 with graded stone aggregate 40 mm nominal size.	M3	1,913.70
76	0201F	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:4:8 with graded stone aggregate 40 mm nominal size.	M3	1,908.50
77	0201G	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:5:10 with graded stone aggregate 40 mm nominal size.	M3	1904.35
78	0201H	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:4:8 with graded stone aggregate 20 mm nominal size	M3	2,117.30
79	0202A	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1:2 with graded stone aggregate 20 mm nominal size - All works upto plinth level.	M3	2,211.60
80	0202B	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1.5:3 with graded stone aggregate 20 mm nominal size - All works upto plinth level.	M3	2,164.35
81	0202C	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:2:4 with graded stone aggregate 20 mm nominal size - All works upto plinth level.	M3	2,235.45
82	0202D	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1:2 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2,822.35
83	0202E	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1.5:3 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2,775.10
84	0202F	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:2:4 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2,846.20

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
85	0203	Straightening, cutting, bending, placing in position of MS/CTD bars and binding with MS binding wires of 18/20 gauge etc. for reinforcement of RCC works. Rate includes cover blocks, cost of binding wire , conveyance of MS/ CTD bars from BHEL stores to site of work, labour etc. complete. MS/CTD bars will be supplied by BHEL at Stores at free of cost	M3	7,439.40
86	0204A	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.	M2	167.30
87	0204B	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.	M2	291.65
88	0204C	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Suspended floors, roofs, landings, balconies, access platform and sunshades.	M2	323.65
89	0204D	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Lintels, beams, plinth beams, girders, bressumers and cantilevers	M2	253.50
90	0204E	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Columns, pillars, piers, abutments, posts and struts	M2	371.70
91	0204F	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Arches, domes, vaults upto 6 m span	M2	783.80
92	0204G	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Well steining	M2	456.50
93	0204H1	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Extra for shuttering : Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete in circular work	M2	33.45
94	0204H2	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Extra for shuttering : Lintels, beams, plinth beams, girders, bressumers and cantilevers in circular work.	M2	50.70
95	0204H3	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Extra for shuttering : Columns, pillars, piers, abutments, posts and struts in circular work.	M2	74.35
96	0204I	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Pockets or holes in foundations for holding down bolts	M2	679.25

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
97	0205	Extra for additional height in centring, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering and de-centring at all levels, over a height of 4.5 metre for every additional height of 1 metre or part there of. For suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	M2	165.25
98	0206	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-20 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	M3	2,728.60
99	0207A	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge M-25 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	M3	2,737.05
100	0207B	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge M-30 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	M3	2,740.15
101	0207C	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge M-35 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level	M3	2,742.70
102	0208	Extra for laying plain / reinforced concrete in or under foul conditions.	M3	125.20
103	0209A	Providing vertical drops, fins, facias etc., for the following thickness with 1:2:4 cement concrete using 6 mm granite stone chips for inner core applied on chicken mesh and neatly plastered with cement mortar 1:4, 12mm thick on both faces, finishing, curing etc., complete. Rate includes cost of all materials and labour but excluding fabrication charges for reinforcement. 75mm thick	M2	842.60

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
104	0209B	Providing vertical drops, fins, facias etc., for the following thickness with 1:2:4 cement concrete using 6 mm granite stone chips for inner core applied on chicken mesh and neatly plastered with cement mortar 1:4, 12mm thick on both faces, finishing, curing etc., complete. Rate includes cost of all materials and labour but excluding fabrication charges for reinforcement. 60 mm thick	M2	830.55
105	0210	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete elements like slabs etc. of 25 to 150 mm thick in required sizes with mix 1:2:4 using 10 to 20 mm size hard broken granite stone jelly for cupboards, shelves etc. including setting in cement mortar 1:3, cost of centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement and fabrication charges.	M3	6,332.65
106	0211	Providing, hoisting and fixing upto floor V level plain cement concrete elements like slabs etc. of 25 to 150 mm thick of required sizes in mix 1:2:4 using 10 to 20 mm size hard broken granite stone jelly. Rate includes centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding pointing.	M3	5,228.55
107	0212	Carrying from departmental stores / stack yard and fixing in position of 25 to 150 mm thick Plain / R C C precast elements like slabs etc. to the correct line, level, plumb and alignment, all as per standard specifications. Rate excludes cost of precast slabs and pointing.	M3	506.60
108	0213A	Providing precast cement concrete Jali 1:2:4 using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc. complete. Rate excludes reinforcement steel and fabrication charges. 50 mm thick	M2	538.75
109	0213B	Providing precast cement concrete Jali 1:2:4 using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc. complete. Rate excludes reinforcement steel and fabrication charges. 40 mm thick	M2	461.70
110	0214A	Providing and fixing RCC precast perforated lawn drain cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel and fabrication charges. 75 mm thick	M2	264.95
111	0214B	Providing and fixing RCC precast perforated lawn drain cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel and fabrication charges. 50 mm thick	M2	161.60
112	0215	Precasting, carrying and fixing in position of RCC louvers including 60 mm thick side posts, 60 mm thick intermittent lintel and 100 mm thick top lintel, 40 mm thick louver slabs lintels etc. (all precast) in cement concrete 1:2:4 using graded stone aggregate 10 mm nominal size with specified reinforcement, all as per standard drawing and instructions of Engineer-in-charge. Rate includes supply and fixing of holdfasts, moulding, scaffolding for fixing at specified levels, finishing and also filling the gap between precast lintels with insitu cement concrete of mix 1:2:4 using 10 mm and down graded hard broken granite stone jelly and filling the gap recesses of side walls with C.M 1:5, cutting and forming chases in brick masonry, finishing jambs wherever necessary and making good all damages to suit the existing work but excluding cost of fabrication charges for reinforcement steel.	M2	772.80

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
113	0216A	Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 69mm thick slab	M2	543.65
114	0216B	Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 150mm thick slab	M2	736.75
115	0217	Encasing rolled steel sections in beams and columns in cement concrete 1:2:4 using graded stone aggregate 12.50 mm nominal size including centering, shuttering etc. complete but excluding cost of reinforcement and fabrication charges.	M3	4,078.50
116	0218	Providing balustrade for an overall thickness of 100 mm with cement concrete 1:2:4 using 12 to 20 mm size hard broken granite stone jelly for 75 mm thick inner core applied on chickenmesh and neatly plastered with cement mortar 1:4 on both faces and hand rail plastered in CM 1:4 with an admixture of red oxide including finishing, polishing curing etc., complete. Rate includes cost of all materials and labour but excluding cost of reinforcement and fabrication charges.	M2	994.70
117	0219	Extra for providing and fixing expanded metal mesh of size 20 x 60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg. per sqm for encasing of rolled steel sections in beams, columns and grillage excluding cost of hangers.	M2	355.85
118	0220	Providing and fixing in position of copper plate as per design for expansion joints.	Kg	306.05
119	0221	Providing and filling in position of blown bitumen in expansion joints	M3	50,000.00
120	0222	Providing and filling in position of bitumen mix filler of proportion 80 Kg of hot bitumen, 1 Kg of cement and 0.25 cubic metre of coarse sand for expansion joints.	M3	15,500.00
121	0223	Providing and fixing in position of 12 mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing compound in expansion joints.	M2	410.00
122	0224	Extra for providing and mixing water proofing material 'Impermo' or equivalent in cement concrete work at 1 Kg per 50 Kg of cement.	kg	42.00

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
123	0225	Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 69mm thick slab	M2	115.50
124	0226	Providing and placing in position PVC water stops serrated with central bulb, 225 mm wide and 8-11 mm thick for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete.	RM	462.05
125	0301A	Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing, all as per standard specifications. Cement mortar 1:5	M3	1,775.55
126	0301B	Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing, all as per standard specifications. In cement mortar 1:6	M3	1,773.45
127	0302	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with Cement mortar 1:6.	M3	2,070.35
128	0303	Extra for random rubble and coursed rubble masonry with hard stone in superstructure above plinth level and upto floor five level.	M3	301.80
129	0304	Extra for random rubble and coursed rubble masonry with hard stone in superstructure above plinth level and upto floor five level.	M3	645.50
130	0305	Extra for laying stone work in or under foul position.	M3	125.20
131	0306	Labour charges for providing random rubble masonry in foundation and basement in the mixes specified including simultaneous flush pointing, all as per standard specifications. Rough stones and bond stones will be supplied by BHEL at free of cost, at site of work.	M3	544.80
132	0307	Providing rough stone dry packing for aprons and revetments including filling interstices with spalls, wedging, consolidating and preparing the surface, all as per standard specifications	M3	1,287.00
133	0308	Labour charges for providing rough stone dry packing for aprons and revetments including filling interstices with spalls, wedging, consolidating and preparing the surface, all as per standard specifications. Rough stones will be supplied by BHEL at site at free of cost.	M3	884.40
134	0309	Providing hollow block masonry in cement mortar 1:5 using hollow block of sizes 400 x 200 x 200 mm / 400 x 150 x 200 mm / 400 x 100 x 200 mm or thereabouts of approved good quality including simultaneous flush pointing, all as per standard specification. Rate includes cost of hollow blocks, conveying, leading, loading, unloading, labour, incidentals etc., complete. Upto 4.50 m height from plinth level.	M3	3,111.15

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
135	0310A	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:3	M3	3,725.30
136	0310B	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:4	M3	3,721.90
137	0310C	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:5	M3	3,720.10
138	0310D	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:6	M3	3,718.50
139	0311A	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:3	M3	3,899.00
140	0311B	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:4	M3	3,896.05
141	0311C	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:5	M3	3,894.45
142	0311D	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:6	M3	3,893.05
143	0312	Extra for Brick work in superstructure above plinth upto floor three level in all shapes and sizes	M3	271.25
144	0313	Extra for brick work with bricks curved on plan upto a mean radius not exceeding 6 meter	M3	473.90
145	0314	Extra charges for providing half brick masonry, brick on edge walls, fins, balustrade etc. over and above the brick work rates of 0310 and 0311.	M3	297.60
146	0315	Honey-comb brick work 10 / 11.40 cm thick with FPS bricks of class designation 50 in cement mortar 1:4	M2	314.15
147	0316	Extra for laying brick work in or under foul position.	M3	125.20
148	0317	Providing and filling with 20 mm brick jelly including filling the voids (max. of 10%) with river sand and compacted well with wooden hammer etc. complete.	M3	687.50
149	0318	Rectifying the wall cracks by chipping off the existing plastered surfaces to the required width, depth and applying cement slurry in the cracks to the required depth, making good all damages and finishing to match with the existing one by plastering with C.M 1:5, 12/15mm thick and a coat of white wash / snowcem / distemper etc. as the case may be.	M2	93.30

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
150	0319	Rectifying the wall cracks by chipping off the existing plastered surfaces to the required width, depth and applying cement slurry in the cracks to the required depth, making good all damages, providing chicken mesh and finishing to match with the existing one by plastering with C.M 1:5, 12/15mm thick and a coat of white wash / snowcem / distemper etc. as the case may be	M2	133.70
151	0320	Brick work with mechanized autoclaved fly ash lime bricks made up of fly ash, lime, gypsum and coarse sand / stone dust to size 230 mm x 110 mm x 70 mm or thereabouts confirming to IS 12894 of class designation 50 (min) in foundation, plinth and superstructure above plinth up to floor V level as per standard specifications and instructions of Engineer in charge In cement mortar 1:5	M3	4,320.70
152	0321	Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in foundation, plinth and superstructure above plinth up to floor V level as per standard specifications and instructions of Engineer in charge In cement mortar 1:5	M3	4,160.00
153	0401A	Providing best wooden frames for doors, windows, ventilators and other frames, wrought framed and fixed in position. All as per standard specifications and drawings. Rate includes cost of wood, holdfasts, other materials, labour etc. complete. In Teak wood	M3	1,09,029.20
154	0401B	Providing best wooden frames for doors, windows, ventilators and other frames, wrought framed and fixed in position. All as per standard specifications and drawings. Rate includes cost of wood, holdfasts, other materials, labour etc. complete. In Country wood	M3	46,085.35
155	0402A	Providing best wooden frames for false ceiling, partitions etc. sawn and put up in position. All as per standard specifications and drawings. Rate includes cost of wood, M.S suspenders, screws, nails, other materials involved, labour, etc. complete. In Teak wood	M3	1,13,394.25
156	0402B	Providing best wooden frames for false ceiling, partitions etc. sawn and put up in position. All as per standard specifications and drawings. Rate includes cost of wood, M.S suspenders, screws, nails, other materials involved, labour, etc. complete. In Country wood	M3	38,851.80
157	0403	Labour charges for wrought and put up in position for all kinds of frames including fixing of holdfasts etc. complete. Rate excludes cost of wood and holdfasts.	M3	9,765.45
158	0404A	Manufacture, supply and fixing best wooden door with frames and shutters comprising of fully panelled shutter of 35 mm thick and frame of size 95 x 70 mm including cost of holdfasts but excluding cost of furniture fittings and fitting charges. In Teak wood	M2	4,807.75

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
159	0404B	Manufacture, supply and fixing best wooden door with frames and shutters comprising of fully panelled shutter of 35 mm thick and frame of size 95 x 70 mm including cost of holdfasts but excluding cost of furniture fittings and fitting charges. In Country wood	M2	2,257.90
160	0405A	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Teak wood (single leaved shutter)	M2	3,375.90
161	0405B	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Teak wood (double leaved shutter)	M2	3,280.95
162	0405C	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Country wood (single leaved shutter)	M2	1,583.15
163	0405D	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications and drawings. (Excluding door frame) Rate excludes furniture fittings. In Country wood (double leaved shutter)	M2	1,552.20
164	0406A	Supply and fixing in position of 38/40mm thick best quality flush shutters solid core type of approved quality with formaldehyde bonded teak ply (both faces) and with teak wood internal lippings etc., complete all as per drawings and standard specifications but excluding cost of frame and furniture fittings. (Area of shutter only to be measured) Single leaved shutter	M2	3,084.80
165	0406B	Supply and fixing in position of 38/40mm thick best quality flush shutters solid core type of approved quality with formaldehyde bonded teak ply (both faces) and with teak wood internal lippings etc., complete all as per drawings and standard specifications but excluding cost of frame and furniture fittings. (Area of shutter only to be measured) Double leaved shutter	M2	3,244.10
166	0407	Manufacture, supply and fixing in position of G.I sheet single leaved door with best country wood frame alround using 75 x 35 mm scantlings, including horizontal member of 75 x 35 mm at 600 mm c/c with 1.20 to 1.25 mm thick GI plain sheet on one side including sizing, fixing, cost of oxi. iron hinges, alu. tower bolts, alu. handles etc., all as per standard specifications and drawings.	M2	1,294.80
167	0408A	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	6,139.95

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
168	0408B	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	6,102.45
169	0408C	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 3 mm pin headed glass panes.	M2	6,113.55
170	0408D	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with 16 mm teak panels.	M2	6,670.65
171	0408E	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Teak wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm panels and 4 mm plain glass panes)	M2	6,437.80
172	0408F	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	3,034.10
173	0408G	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	2,996.60
174	0408H	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with 3 mm pin headed glass panes.	M2	3,007.70

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
175	0408I	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with 16 mm country wood panels.	M2	3,166.70
176	0408J	Manufacture, supply and fixing double leaved wooden window with best wood and type of shutters given below with wooden frames of size 95 x 70 mm including sizing and fixing of 12/16 mm dia M.S rods and holdfasts but excluding cost of M.S rods, furniture fittings etc. complete. In Country wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm country wood panels and 4 mm plain glass panes)	M2	3,104.45
177	0409A	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	3,063.75
178	0409B	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	3,012.70
179	0409C	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 3 mm pin headed glass panes.	M2	3,027.80
180	0409D	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with 16 mm teak panels.	M2	3,786.50
181	0409E	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Teak wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm teak wood panels and 4 mm plain glass panes)	M2	3,469.40

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
182	0409F	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 4 mm plain glass panes.	M2	1,824.45
183	0409G	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 4 mm pin headed glass panes.	M2	1,773.40
184	0409H	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 3 mm pin headed glass panes	M2	1,788.50
185	0409I	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with 16 mm country wood panels.	M2	2,005.00
186	0409J	Manufacture, supply and fixing in position of double leaved best wooden window shutters using 70 x 35 mm styles and rails, all as given below. All as per standard specifications and drawings. (Excluding window frame) Rate excludes window frame and furniture fittings. In Country wood. 35 mm thick shutter with partly panelled and partly glazed. (16 mm country wood panels and 4 mm plain glass panes)	M2	1,920.25
187	0410A	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.) In Teak wood with 4 mm plain glass panes for shutter.	M2	4,900.65
188	0410B	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.) In Teak wood with 3 mm pin headed glass panes for shutter.	M2	4,868.25

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
189	0410C	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.) In Country wood with 4 mm plain glass panes for shutter.	M2	2,419.10
190	0410D	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. (Excluding bottom frame for fixing over doors and windows.) In Country wood with 3 mm pin headed glass panes for shutter.	M2	2,386.70
191	0411A	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. In Teak wood with 4 mm plain glass panes for shutter	M2	5,584.50
192	0411B	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. In Teak wood with 3 mm pin headed glass panes for shutter.	M2	5,556.00
193	0411C	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. In Country wood with 4 mm plain glass panes for shutter.	M2	2,647.55
194	0411D	Manufacture, supply and fixing fully glazed swing type ventilator using best wooden frame of size 95 x 70 mm, wooden shutter of thickness 35 mm with glass panes including sizing and fixing 16mm dia. M.S. rods but excluding cost of M.S. rods, holdfasts and furniture fittings. In Country wood with 3 mm pin headed glass panes for shutter.	M2	2,619.05
195	0412A	Manufacture, supply and fixing in position of fully glazed fixed type louvered ventilator using best wooden frame of size 75 x 50 mm and using 4 mm thick plain glass panes for louvers, all as per drawings and standard specifications. Rate includes supply and fixing of MS holdfasts. In Teak wood	M2	4,280.55
196	0412B	Manufacture, supply and fixing in position of fully glazed fixed type louvered ventilator using best wooden frame of size 75 x 50 mm and using 4 mm thick plain glass panes for louvers, all as per drawings and standard specifications. Rate includes supply and fixing of MS holdfasts. In Country wood	M2	2,064.20

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
197	0413A	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Teak wood with 4 mm plain glass panes for shutter	M2	2,290.15
198	0413B	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Teak wood with 3 mm pin headed glass panes for shutter.	M2	2,246.05
199	0413C	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Country wood with 4 mm plain glass panes for shutter.	M2	1,442.40
200	0413D	Manufacture, supply and fixing in position of fully glazed shutter in best wooden frame of 35 mm thick for ventilator. Rate excludes ventilator frame and furniture fittings. In Country wood with 3 mm pin headed glass panes for shutter.	M2	1,398.35
201	0414A	Labour charges for manufacturing the following wood work items either in teak or country wood and fixing in proper position at site of work. All as per standard specifications and drawings. Rate excludes cost of wood, furniture fittings and its fitting charges. Fully panelled door shutter / window shutter (excluding door / window frame)	M2	580.00
202	0414B	Labour charges for manufacturing the following wood work items either in teak or country wood and fixing in proper position at site of work. All as per standard specifications and drawings. Rate excludes cost of wood, furniture fittings and its fitting charges. Partly glazed and partly panelled door shutter / window shutter/ fully glazed window shutter (excluding door / window frame)	M2	535.70
203	0414C	Labour charges for manufacturing the following wood work items either in teak or country wood and fixing in proper position at site of work. All as per standard specifications and drawings. Rate excludes cost of wood, furniture fittings and its fitting charges. Fully glazed shutter/shutter with frame for ventilator	M2	493.35
204	0415	Labour charges for fixing doors, windows and ventilators including frames and shutters in position etc. complete.(wood or steel)	M2	118.90
205	0416A	Labour charges for fixing the following in proper position. Shutter only for doors, windows, ventilators etc.	M2	23.80
206	0416B	Labour charges for fixing the following in proper position. Frame only for doors, windows, ventilators etc	EA	171.25
207	0417	Cutting to size and fixing M.S rods/bars in window and ventilator frames and other petty works. (labour only)	kg	12.30
208	0418	Supply and fixing M.S grills for windows, ventilators and also wherever necessary including a priming coat. All according to our design and specification.	kg	58.20

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
209	0419	Supply of MS round or square bars at site of work for windows, ventilators, other petty works etc.	kg	49.50
210	0420	Manufacture, supply and fixing in position of cupboard shutters with best teakwood frame of size 100 x 35 mm and 25 mm thick best quality prelaminated particle board (exterior grade) as flush shutters etc. complete, all as per standard specifications and drawings. Rate includes holdfasts but excludes furniture fittings.	M2	2,214.00
211	0421	Manufacture, supply and fixing in position of fly proof shutters with best teakwood frame of size 75 x 25 mm and 20 mm thick shutters using 50 x 20 mm teakwood styles and rails including supply and fixing of best quality galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm including cost of holdfasts, oxidised iron butt hinges and other fittings of anodised aluminium including providing locking arrangements etc., complete, all as per standard specifications.	M2	2,248.65
212	0422	Providing and fixing best teak wood of 12 mm thick and 150 mm wide for pelmet of doors and windows with necessary provision for fixing curtain rod. Rate excludes curtain rod. (Only horizontal length between supports will be measured and paid)	RM	446.10
213	0423	Providing and fixing prelaminated particle board (exterior grade) of approved brand and quality 12 mm thick and 150 mm wide for pelmet of doors and windows with necessary provision for fixing curtain rod. Rate excludes curtain rod.(Only horizontal distance between supports will be measured and paid)	RM	302.35
214	0424A	Providing and fixing curtain rods of the following. Rate includes cost of rods, cutting to required lengths, fixing in position etc. complete. MS pipe nickel plated 20 mm dia (HD) with nickel plated brackets.	RM	99.20
215	0424B	Providing and fixing curtain rods of the following. Rate includes cost of rods, cutting to required lengths, fixing in position etc. complete. Anodised aluminium tube of 20 mm dia with suitable brackets.	RM	63.25
216	0425	Providing and fixing best teakwood beading of size 50 x 25 mm on walls including supply and fixing of hooks at required intervals etc., complete.	RM	84.75
217	0426	Supply and fixing mild steel balustrade of overall height 90 cm fabricated with 40 x 5 mm M.S. flats and 15 mm M.S. square bars painted with one coat of red oxide primer, including supply and fixing of best teak wood hand rail of size 75 x 75 mm at top finished smooth. All as per standard specifications and drawings.	RM	1,577.15
218	0427A	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Hydraulic door closer - universal type (Medium duty)	EA	1,425.45

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
219	0427B	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Hydraulic door closer-universal type (Heavy duty)	EA	1,507.00
220	0427C	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Brass Mortice lock 100 mm, 6 levers and a pair of brass lever handles	EA	492.40
221	0427D	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. D type Anodised Aluminium handle-75 mm	EA	20.90
222	0427E	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. D type Anodised Aluminium handle-100mm	EA	31.90
223	0427F	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. D type Anodised Aluminium handle-125mm	EA	35.75
224	0427G	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 12 mm Aluminium aldrops	EA	140.85
225	0427H	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 16 mm Anodised Aluminium aldrops	EA	170.50
226	0427I	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 x 16 mm Anodised Aluminium aldrops	EA	206.80

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
227	0427J	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 50 x 11/12 mm Anodized Aluminium tower bolt	EA	32.90
228	0427K	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 75 x 11/12 mm Anodized Aluminium tower bolt	EA	38.50
229	0427L	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 100 x 11/12 mm Anodized Aluminium tower bolt	EA	47.30
230	0427M	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 x 11/12 mm Anodized Aluminium tower bolt	EA	64.90
231	0427N	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 200 x 11/12 mm Anodized Aluminium tower bolt	EA	99.00
232	0427O	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 11/12 mm Anodized Aluminium tower bolt	EA	143.00
233	0427P	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 x 11/12 mm Anodized Aluminium tower bolt	EA	176.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
234	0427Q	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 50 mm oxidised iron butt hinges (Heavy duty)	EA	10.45
235	0427R	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 125 mm oxidised iron butt hinges (Heavy duty)	EA	22.55
236	0427S	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 mm oxidised iron butt hinges (Heavy duty)	EA	43.45
237	0427T	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 125 mm oxidised iron parliamentary hinges (Heavy duty)	EA	42.35
238	0427U	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 x100 mm oxidised iron parliamentary hinges (Heavy duty)	EA	45.10
239	0427V	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 50 mm oxidised iron tower bolt (Heavy duty)	EA	20.90
240	0427W	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 100 mm oxidised iron tower bolt (Heavy duty)	EA	30.80

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
241	0427X	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 150 mm oxidised iron tower bolt (Heavy duty)	EA	42.90
242	0427Y	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 mm oxidised iron tower bolt (Heavy duty)	EA	60.50
243	0427Z	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 mm oxidised iron tower bolt (Heavy duty)	EA	77.00
244	0427A1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 x 16 mm oxidised iron Aldrop (Heavy duty)	EA	126.50
245	0427B1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 300 x 16 mm oxidised iron Aldrop (Heavy duty)	EA	129.80
246	0427C1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 200 mm brass iron hook and eye	EA	72.60
247	0427D1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. 250 mm brass iron hook and eye	EA	78.65
248	0427E1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. Anodised aluminium Hanging type door stopper	EA	31.90

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
249	0427F1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT handle 125x34x24 mm	EA	38.50
250	0427G1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT handle 150x34x24 mm	EA	42.90
251	0427H1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT butt hinges 75x60x10 mm	EA	57.20
252	0427I1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT butt hinges 100x75x10 mm	EA	72.60
253	0427J1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT Tower bolt 152x42x18 mm	EA	82.50
254	0427K1	Supply and fixing the following furniture fittings of approved brand and quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications and instructions of Engineer in charge. PTMT Tower bolt 202x42x18 mm	EA	99.00
255	0428	Providing and fixing cupboard shutter 25 mm thick, melamine faced prelaminated with flat pressed three layer particle board conforming to IS:12823 exterior grade (Grade I Type II) having one side decorative lamination of approved shade and other side balancing lamination including II class teak wood lipping of 25 mm wide and 12 mm thick with necessary screws, nickle plated bright finished M.S piano hinges etc. complete.	M2	1,471.35
256	0429	Providing and fixing cupboard shutter 25 mm thick particle board with teak veneering on one side and commercial veneering on the other side conforming to IS:3087 exterior grade (Grade I) of approved make including II class teak wood lipping of 25 mm wide and 12 mm thick with necessary screws, nickle plated bright finished M.S piano hinges, etc. complete.	M2	1,350.35
257	0430	Providing and fixing factory made flush door shutter 30 mm thick made of prelaminated flat pressed three layer particle board conforming to IS:12823 exterior grade (Grade I Type II) having one side decorative lamination of approved shade and other side balancing lamination including II class teak wood lipping of 30 mm wide and 12mm thick with necessary screws, black enamelled M.S butt hinges, etc. complete.	M2	1,477.20

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
258	0431A	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in- charge. Extruded section profile size 48x40 mm	RM	188.10
259	0431B	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in- charge. Extruded section profile size 42x50 mm.	RM	177.10
260	0432	Providing and fixing to existing door frames, 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thick-ness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bath-room door shutter).	M2	2,500.60

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
261	0433	Providing and fixing to existing door frames, 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer -in-charge.	M2	2,610.55
262	0434	Providing and fixing to existing door frames, 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top and Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.	M2	2,500.55
263	0435	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided throughout the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	RM	409.25

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
264	0436A	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles and rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top and bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement and self-driven self-tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm and 15 mm integrally extruded in the middle of the lock rail and fixed with styles with the help of PVC solvent cement and self-driven self-tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge. Non Decorative finish	M2	2,482.30
265	0436B	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles and rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top and bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement and self-driven self-tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm and 15 mm integrally extruded in the middle of the lock rail and fixed with styles with the help of PVC solvent cement and self-driven self-tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge. Decorative finish (both side wood grained finish).	M2	3,078.50
266	0437	Removing the damaged door shutter from door frame in buildings, conveying the same to site of work, dismantling the damaged bottom rail and other required portions, supply and replacing with suitable bottom rail of best country wood of maximum size 200x35 mm and length 775 mm and covered with supply and fixing of 28 gauge G.I sheet at the bottom on both sides of shutter to a width and height of 775 mm and 900 mm respectively including cutting, sizing, finishing, conveying and refixing the finished door shutter in proper position in buildings, all as per instructions of Engineer in charge. Rate also includes cost of all accessories such as nails, screws, fevicol etc.	EA	714.95

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
267	0438A	Removing the existing partition with door carefully from its position without damaging any portion of the partition, handing over the reusable items to the departmental stores / stacking at site. All as per the instructions of Engineer-in-charge. Teakwood partition partly panelled and partly glazed	M2	123.20
268	0438B	Removing the existing partition with door carefully from its position without damaging any portion of the partition, handing over the reusable items to the departmental stores / stacking at site. All as per the instructions of Engineer-in-charge. Teakwood / Aluminium partition panelled or glazed	M2	148.10
269	0439A	Conveying partition along with doors from departmental stores / stacks and fixing the same in position without damaging the frame work and glass. Rate includes cost of additional rubber gaskets, aluminium frame work and beading if required for fixing the glasses for panels rigidly in position, cost of all materials, labour, scaffolding, tools and plants and other incidentals etc. complete. All as per the instructions of Engineer-in-charge. Teakwood partly panelled and partly glazed.	M2	651.45
270	0439B	Conveying partition along with doors from departmental stores / stacks and fixing the same in position without damaging the frame work and glass. Rate includes cost of additional rubber gaskets, aluminium frame work and beading if required for fixing the glasses for panels rigidly in position, cost of all materials, labour, scaffolding, tools and plants and other incidentals etc. complete. All as per the instructions of Engineer-in-charge. Teakwood / Aluminium partition Panelled / Glazed	M2	292.35
271	0519A	Providing holding down bolts of required sizes with nuts, washers etc. and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, washers, fabrication and machining charges, fixing, all labour etc. complete. In M.S rounds including washer plates.	Kg	65.80
272	0519B	Providing holding down bolts of required sizes with nuts, washers etc. and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, washers, fabrication and machining charges, fixing, all labour etc. complete. Bolts including nuts and washers etc. complete in all sizes and lengths.	Kg	85.15
273	0520	Conveying all types and sizes of holding down bolts, nuts, washers etc. from BHEL Stores to site of work and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate excludes cost of bolts, nuts, washers etc.	kg	23.55
274	0524	Labour charges for making and fixing M.S fan hook of standard shape using M.S bar bent to shape with hooked ends in RCC slabs during laying including painting the exposed portion etc. complete. M.S bar will be supplied by BHEL at Stores at free of cost.	EA	26.60

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
275	0525	Labour charges for making and fixing M.S fan hook of standard shape using M.S bar bent to shape with hooked ends in existing RCC slabs including cutting chase and making good to match with the existing one and painting the exposed portion of the hook etc. complete. M.S bar will be supplied by BHEL at Stores at free of cost.	EA	172.70
276	0527	Supply and fixing rolling shutters of approved make, made of 80 x1.25 mm M.S laths with 1.25 mm thick top cover interlocked together through their entire length and joined together at end by end locks mounted on specially de-signed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation etc. complete including cost of providing and fixing necessary 27.5 cm long wire springs grade No.2 and M.S top cover of required thickness for rolling shutter	M2	1,912.65
277	0528	Providing and fixing ball bearing for rolling shutters.	EA	413.30
278	0529A	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 10.00 SQM and upto 16.80 SQM in area.	M2	630.25
279	0529B	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 16.80 SQM in area.	M2	663.25
280	0530	Conveying from BHEL stores to site of work and fixing rolling shutters in proper position, all as directed by the Engineer-in-charge. Rate includes loading, leading, unloading and fixing of roller shutter including side brackets, gear box, lubricating the bearings etc., complete and making it fit for operation. Labour charges only.	M2	276.60
281	0531	Providing and fixing in position of collapsible steel shutters with vertical channels 20 x 10 x 2 mm and braced with flat iron diagonals 20 x 5 mm size with top and bottom rail of T-iron 40 x 40 x 6 mm with 40 mm dia. steel pulleys complete with bolts, nuts, locking arrangements, stoppers, handles, including applying a priming coat of approved steel primer.	M2	4,344.00
282	0532	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer , but excluding the cost of other fittings, complete all as per approved design. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	M2	1,154.70

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
283	0533	Fixing standard steel glazed doors, windows and ventilators in walls with 15 x 3 mm lugs 10 cm long embedded in cement concrete blocks 15 x10 x10 cm of 1:3:6 or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including fixing of glass panes with glazing clips and special metal-sash putty or metal beading with screws. (Only steel doors, windows and ventilators with lugs, glass panes cut to size and glazing clips or metal beading with screws shall be supplied by BHEL at Stores at free of cost)	M2	271.25
284	0534A	Supply and fixing of glass panes with putty, glazing clips etc. for steel doors, windows, ventilators etc. Rate includes removal of broken glasses and old putty. 3 mm pin headed glass panes.	M2	600.75
285	0534B	Supply and fixing of glass panes with putty, glazing clips etc. for steel doors, windows, ventilators etc. Rate includes removal of broken glasses and old putty. 4 mm plain glass panes.	M2	665.80
286	0535	Providing putty for glass panes. Rate includes removal of old putty, supply and applying new putty in a proper manner and required quantity at site of work, all as per instructions of Engineer in charge.	RM	19.30
287	0536	Providing and fixing in proper position of fan hook using 10 mm FSICHER SLM-N heavy duty ANCHOR fastener with clamp and bolts in the existing RCC roof slab. Rate includes cost of fan hook (fastener), drilling with power drilling machine to the required dia. and depth in the RCC roof slab, inserting and fixing the fan hook in proper position, all labour and all other incidentals etc. complete.	EA	390.50
288	0537A	Providing and fixing oxidised M.S handle with necessary screws etc. complete. 100 mm size	EA	22.45
289	0537B	Providing and fixing oxidised M.S handle with necessary screws etc. complete. 125 mm size	EA	25.95
290	0538A	Providing polyester sun control film of approved brand (GARWARE or equivalent) and shade to glazed panels in doors / windows / ventilators / partitions etc. with proper adhesive, all after removing the existing damaged film if available etc. complete. All as per instructions of Engineer in charge. Rate includes cost of all materials, scaffolding charges, labour, all other incidentals etc., complete. Non reflective Type - Regular grade	M2	420.15
291	0538B	Providing polyester sun control film of approved brand (GARWARE or equivalent) and shade to glazed panels in doors / windows / ventilators / partitions etc. with proper adhesive, all after removing the existing damaged film if available etc. complete. All as per instructions of Engineer in charge. Rate includes cost of all materials, scaffolding charges, labour, all other incidentals etc., complete. Non reflective Type - Premium Grade with Scratch Resisting Coating	M2	1,011.95

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
292	0539	Supply of Mild Steel sections such as channels, angles, T sections, flats, sheets, square bars, rods, tubes etc.at site of work and fabrication of steel work for gates, Y angles, purlins, trusses, any other small structures etc., all as per required design and drawing and erecting/fixing the same in proper alignment/position, level including site welding and or bolting/rivetting with necessary accessories such as keelmulai, keelpattai, hinges, tower bolts, aldrops etc. complete. Rate also includes providing two coats of synthetic enamel paint over one coat of red oxide primer. Payment will be made for the entire finished item of work.	MT	72,332.55
293	0540	Providing and fixing factory made ISI marked steel Paneled doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer , but excluding the cost of other fittings, complete all as per approved design and providing and fixing 18 gauge MS sheets for panes, handles, peg stays, friction throw hinges etc., complete including a priming coat of approved steel primer. Rate includes dismantling the masonry and making good all damages etc., complete.	M2	2,139.95
294	0545	Lifting the gantry rails up to 200 mm and packing the rails/sleepers with ballast metal /shim. Plates true to span, alignment and level including oiling and tightening the fish bolts and sleepers, fasteners and fixing new fasteners for the missing and sectioning the formation to the required profile, all as per the instructions of Engineer-in-charge. (Ballast metal, shim, oil, new fasteners etc. will be supplied by BHEL at stores at free of cost) Payment will be made per metre length of single rail.	RM	40.05
295	0548	Supplying and laying rubberized and coloured (for 5mm thick layer) inter locking paver block of 50mm thickness M25 grade in flooring / pavement to take care of vehicular movements with proper line, level, alignment etc., all as per standard specification and instruction of Engineer-in-charge. The rate included cost of material, transportation, loading, unloading at site, labour for spreading and laying of paver block etc., complete over the sand bed of required thickness which will be paid under separate item.	M2	894.40
296	0549	Welding of 90 Lbs/CR 80 rail joints erected already in alignment in crane girders/gantry girder upto +14.00 meter including edge preparation, preheating welding using special type electrode (Elec grade 11018). The rate includes all labour charges, electrodes and incidental charges for dismantling the rail from its original position, edge preparation, preheating, welding, post heating as per the instructions of BHEL Engineer in charge. Also include cost of consumables for pre heating and post heating and labour charges for re fixing the 90 Lbs/CR 80 rail to alignment, level after welding etc., complete.	JOINT	2,170.30

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
297	0550	Renewing the bottom rail and/or top rubber of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer. Rate includes removing the collapsible gate from its position including the frames, replacing the wornout portions wherever necessary with suitable new M.S Tee sections etc. and refixing the collapsible gate and making good the damages in floor, wall etc. with cement concrete etc. complete. Payment will be made only on weight basis for the replaced new M.S sections.	kg	116.50
298	0551A	Renewing wrought iron or M.S wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete. Wheel 50 mm dia. and below	EA	113.65
299	0551B	Renewing wrought iron or M.S wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete. Wheel above 50 mm dia.	EA	171.60
300	552	Supply and fixing cup type rail clamp with fittings over the insert plate which is embedded in the concrete. Rate includes welding including cost of consumables, all labour and other incidentals etc. complete, all as per instructions of Engineer-in-charge.	EA	252.45
301	553	Collection from BHEL stores and transporting of rails CR 80/R 45 etc. to the contractor's site fabrication shop, straightening the rails using Gim screw or any other equipments, preparation of edge for welding the rail joints as per drawing and erecting in position at all elevations (i.e, in floor or over the girders) using cup type rail clamps with fittings. The scope includes rail alignment after erection, fixing in position, welding the joints by using approved electrode (E 11018 for CR 80 & E7018 for R 45 rails), pre heating & post heating the joints, grinding the joints neatly etc. as per drawings and instruction of Engineer in charge. Rate shall include cost of providing one coat of red oxide primer as per IS specification and supply of DODL's for BHEL approval in compact disc with two copies of print outs. Quoted rate shall also include cost of consumables, hire charges for tools and plants, labour and incidentals etc. complete but exclude cost of rails which will be supplied by BHEL at free of cost.	MT	11,500.00
302	0601	Finishing the top of all floors with 20 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to 10 mm gauge hard broken granite stone chips and finishing the top surface smooth, rounding of corners, curing etc., complete, all as per standard specifications. (Ellis pattern I sort)	M2	190.70

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
303	0602	Finishing the top of all floors with 20 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to 10 mm gauge hard broken granite stone chips including mixed well with red oxide powder of approved quality of weight equal to one tenth of the weight of cement used. and finishing the top surface smooth, rounding of corners, curing etc., complete, all as per standard specifications. (Ellis pattern I sort).	M2	383.75
304	0603	Finishing the top of all floors with 25 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to10 mm gauge hard broken granite stone chips, finishing the surfaces smooth, rounding of corners, curing, providing borders etc., complete, all as per standard specifications. (Ellis pattern flooring)	M2	235.10
305	0604	Finishing the top of all floors with 25 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to10 mm gauge hard broken granite stone chips including mixed well with red ox-ide powder of approved quality of weight equal to one tenth of the weight of cement used. finishing the surfaces smooth, rounding of corners, curing, providing borders etc., complete, all as per standard specifications. (Ellis pattern flooring).	M2	476.00
306	0605	Providing red oxide skirting for walls, etc. with cement mortar 1:3, 12 mm thick, well mixed with red oxide powder of approved quality of 3.50 K.G per 50 K.G of cement used, finishing, polishing the surfaces smooth, curing etc., complete, all as per standard specifications.	M2	161.45
307	0606	Flooring with reinforced cement concrete of mix 1:2:4 using 40 mm and down graded hard broken granite stone jelly for thickness varying from 100 to 500 mm laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications.	M2	1,942.05
308	0607	Floor finish with 40 mm thick granolithic flooring over the concrete base while it is wet for proper bonding, the bottom 25 mm thick consisting of one part of cement and one part of 6 mm gauge hard broken granite stone chips (the proportion being by volume) and the top 15 mm finished with hardening compound of proportion one part of hardonate (ironite or equivalent) four parts of cement and eight parts of 6 mm gauge blue granite stone chips (the proportion being by weight) including finishing and painting the sides with bitumen etc., complete, all as per standard specifications.	M2	425.15
309	0608	Floor finish with 40 mm thick over concrete base while it is wet for proper bonding. 40 mm thick finish consists of one part of cement and one part of 6 mm gauge hard broken granite stone chips (the proportion being by volume) and finished smooth including painting the sides with bitumen etc., complete, all as per standard specifications.	M2	333.70

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
310	0609A	Providing, laying and finishing the top of floor / side walls with 20 mm thick mosaic tiles of approved make and quality over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm thick and tiles being joined, polished and finished smooth with necessary borders etc., complete including thorough cleaning of the surface before and after laying the tiles. All as per standard specifications. (Cost of tile shall include cost of cement for casting.) For gray colour.	M2	472.70
311	0609B	Providing, laying and finishing the top of floor / side walls with 20 mm thick mosaic tiles of approved make and quality over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm thick and tiles being joined, polished and finished smooth with necessary borders etc., complete including thorough cleaning of the surface before and after laying the tiles. All as per standard specifications. (Cost of tile shall include cost of cement for casting.) For colours other than gray	M2	527.75
312	0610A	Finishing the top of floors / sides of walls with insitu mosaic comprising of a bedding layer of cement mortar 1:4, 12 mm thick followed by 20 mm thick mosaic wearing layer comprising of cement and mosaic chips of 6 mm and down graded in proportion of 1:2, laid, polished and finished with necessary borders etc., complete including thorough cleaning the surfaces before and after laying the finish, all as per standard specifications. Gray colour	M2	465.55
313	0610B	Finishing the top of floors / sides of walls with insitu mosaic comprising of a bedding layer of cement mortar 1:4, 12 mm thick followed by 20 mm thick mosaic wearing layer comprising of cement and mosaic chips of 6 mm and down graded in proportion of 1:2, laid, polished and finished with necessary borders etc., complete including thorough cleaning the surfaces before and after laying the finish, all as per standard specifications. For colours other than gray	M2	520.55
314	0611	Grinding and wax polishing of old mosaic floors, dado, skirting etc. in gray and all colours and finishing the surfaces smooth including filling the joints and voids by matching pigments, chips etc., complete, all as per standard specifications. Rate includes cost of materials, hire and running charges of machines, labour etc., complete.	M2	77.25
315	0612A	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For Plain Ceramic tile of Size 305mm X 305mm X 6mm of all Colours	M2	1,035.20

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
316	0612B	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For Plain Ceramic tile of Size 200mm X 200mm X 6mm of all Colours	M2	1,053.70
317	0612C	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For First Quality Design Ceramic tile of Size 305mm X 305mm X 6mm of all Colours	M2	1,215.40
318	0612D	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For First Quality Design Ceramic tile of Size 200mm X 200mm X 6mm	M2	1,299.90
319	0613	Providing and laying minimum 5 mm thick ceramic glazed floor tiles of first quality approved make confirming to IS:15622 and in all colours of required sizes in flooring, treads of steps, landings etc., laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 12 mm thick cement mortar 1:3, finished with flush pointing in white cement using appropriate colour pigment etc. complete, all as per standard specifications.	M2	672.55
320	0614	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades as approved by Engineer-in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete	M2	672.55
321	0615	Providing and laying ceramic glazed floor tiles (of required thickness) of first quality approved make confirming to IS:15622 and in all colours of required sizes in flooring, treads of steps, landings etc., laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 20 mm thick cement mortar 1:4, finished with flush pointing in white cement using appropriate colour pigment etc. complete, all as per standard specifications.	M2	678.65
322	0616	Providing and laying ceramic glazed wall tiles (of required thickness) of first quality of approved make confirming to IS:15622 and in all colours of required sizes in skirting, walls, risers of steps and dado laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 12 mm thick cement mortar 1:3 plaster and joined with white cement using appropriate colour pigment etc. complete, all as per standard specifications	M2	745.80

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
323	0617	Fixing glazed/ceramic/vitrified floor tiles with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness.	M2	367.60
324	0618A	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Kota stone slabs 20 to 25 mm thick polished	M2	1,151.40
325	0618B	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Cuddappah slabs 20 to 25 mm thick single side polished	M2	879.20
326	0618C	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Shahabad slabs 20 to 25 mm thick single side polished - Tandur Gray	M2	851.95
327	0618D	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Shahabad slabs 20 to 25 mm thick single side polished - Tandur Green	M2	838.35
328	0618E	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Rajnagar plain white	M2	1,219.90

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
329	0618F	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Green (Udaipur) colour	M2	1,333.75
330	0618G	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Pink colour	M2	1,276.85
331	0618H	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Black (Zebra/Galaxy) colour	M2	1,093.40
332	0618I	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - S.White	M2	1,440.95

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
333	0618J	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Black (Andhra) Colour	M2	2,298.45
334	0618K	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Gray Colour	M2	2,026.20
335	0618L	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Green Colour	M2	1,958.15
336	0618M	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Sweet Green Colour	M2	2,434.55
337	0618N	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Red (Gem) Colour	M2	1,958.15
338	0618O	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Blue (Lavender) Colour	M2	2,230.40

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
339	0618P	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Lagared Colour	M2	3,659.60
340	0618Q	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Steel grey Colour	M2	1,754.00
341	0618R	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Vitrified Tiles of required thickness and 60 x 60 cm size (cement slurry is 3.30 Kg/SQM instead of 4.40 Kg/SQM)	M2	1,228.35
342	0618S	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Precast cement Concrete Tiles of approved make of minimum thickness 22mm and required size and pattern (cement slurry is 3.30 Kg/SQM instead of 4.40 Kg/SQM)	M2	495.50
343	0619A	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble tiles (polished), 8 mm thick (approx.) - Rajnagar plain white/Green (Udaipur)/Black (Zebra)	M2	800.95

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
344	0619B	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - P White	M2	873.75
345	0619C	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Gray (Steel) Colour	M2	837.35
346	0619D	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Red (Gem) Colour	M2	934.40
347	0619E	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Green Colour	M2	970.80
348	0619F	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Sweet Green Colour	M2	1,261.95
349	0619G	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Black (Galaxy) Colour	M2	970.80

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
350	0619H	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Laga Red Colour	M2	1,541.00
351	0619I	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Raw Silk Colour	M2	873.75
352	0619J	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Steel Grey Colour	M2	837.35
353	0620A	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (Polished) - Jet Black	M2	1,691.95
354	0620B	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Red (Gem) Colour	M2	1,342.20
355	0620C	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Green Colour	M2	1,378.60
356	0620D	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Black (Galaxy) Colour	M2	1,378.60

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
357	0620E	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Steel Grey Colour	M2	1,245.15
358	0620F	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Marble tiles (polished), 8 mm thick (approx.) - Rajnagar plain white/Green (Udaipur)/Black (Zebra)	M2	1,208.75
359	0621A	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm. including pointing in white cement complete with the following Granite tiles (Polished) 8 to 10 mm thick (approx.) – Jet Black	M2	1,855.75
360	0621B	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm. including pointing in white cement complete with the following Granite tiles (polished), 8 to 10 mm thick (approx.) – Red (Gem) Colour	M2	1,506.00
361	0621C	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm. including pointing in white cement complete with the following Granite tiles (polished), 8 to 10 mm thick (approx.) - Green Colour	M2	1,542.40
362	0621D	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm. including pointing in white cement complete with the following Granite tiles (polished), 8 to 10 mm thick (approx.) - Black (Galaxy) Colour	M2	1,542.40
363	0621E	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm. including pointing in white cement complete with the following. Granite tiles (polished), 8 to 10 mm thick (approx.) - Steel Grey Colour	M2	1,408.95
364	0621F	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete with the following Marble tiles (polished), 8 mm thick (approx.) – Rajnagar plain white/Green (Udaipur)/Black (Zebra)	M2	1,372.55
365	0622	Mirror polishing on marble work/granite work/stone work wherever required to give high gloss finish etc. complete.	M2	162.20
366	0623	Extra for prefinished nosing to treads of steps of marble stones.	RM	219.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
367	0624	Extra for prefinished nosing in treads of steps of kota stones.	RM	70.90
368	0625A	Supply and fixing homogeneous PVC sheets / tiles of approved brand, pattern, colour, shade and manufacture in flooring / skirting on a smooth and damp proof base using rubber based adhesives of approved quality including rolling with light wooden roller weighing about 5 K.G. etc. complete, all as per standard specifications. 1.5 / 1.6 mm thick	M2	422.05
369	0625B	Supply and fixing homogeneous PVC sheets / tiles of approved brand, pattern, colour, shade and manufacture in flooring / skirting on a smooth and damp proof base using rubber based adhesives of approved quality including rolling with light wooden roller weighing about 5 K.G. etc. complete, all as per standard specifications. 2 mm thick	M2	618.40
370	0626	Supply and laying roughly dressed cut stone slabs of required sizes and thickness over sand bed or mortar bed, excluding pointing, all as per standard specifications. Rate excludes cost of sand bed/mortar bed.	M3	4,330.90
371	0627	Labour charges for edge preparation (NOZING) and polishing of the laid granite slab on the working platform, table etc. , The rate includes charges for required grinding machine, labour etc., complete. All as per the instructions of Engineer-in-charge	RM	181.95
372	0628	Flooring with reinforced cement concrete of mix 1:2:4 using 20 mm and down graded hard broken granite stone jelly for thickness varying from 100 to 500 mm laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications.	M3	2,119.70
373	0629	Providing and laying 7 mm thick (approximate) ceramic glazed floor/wall tiles of first quality approved make and in all colours of required sizes in flooring, treads of steps, landings, skirting, walls, risers of steps and dado etc., laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment by placing 2 mm spacers, tile mat for joints filling etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.	M2	790.80

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
374	630A	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Rajnagar plain white	M2	1,285.60
375	630B	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Green (Udaipur) colour	M2	1,399.45
376	630C	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Pink colour	M2	1,342.55
377	630D	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Black (Zebra / Galaxy) colour	M2	1,159.10

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
378	630E	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - S white	M2	1,323.20
379	630F	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Black (Andhra) colour	M2	2,106.15
380	630G	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Grey colour	M2	1,857.60
381	630H	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Green colour	M2	1,795.45

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
382	630I	Providing, laying and finishing the top of floor/wall with the following best quality slabs/tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc. Granite slabs 16 to 18 mm thick, polished-Sweet Green colour	M2	2,230.40
383	630J	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Red (Gem) colour	M2	1,795.45
384	630K	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Blue (Lavender) colour	M2	2,044.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
385	630L	Providing, laying and finishing the top of floor/wall with the following best quality slabs/tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc. Granite slabs 16 to 18 mm thick, polished-Lakha Red Colour	M2	3,348.90
386	630M	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Steel Grey Colour	M2	1,609.05
387	630N	Providing, laying and finishing the top of floor/wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc. Vitrified tiles or equivalent, 8.50 mm thick (approx.) & 60 x 60 cm size	M2	1,371.45
388	0712	Providing weathering course on top of roof slab with 20 mm size brick jelly and pure lime (no sand) in the proportion of 32 : 12.5 to the required thickness, well beaten with wooden battens, so as to secure adequate slope, all as per standard specifications and instructions of Engineer-in-charge.	M3	3,061.05
389	0713	Providing weathering course on top of roof slab with one course of split tiles or pressed flat tiles of 17 to 20 mm thick and of approved brand and size, set in cement mortar 1:3 with an admixture of crude oil at 10% by weight of cement, 12 mm thick bedding layer including pointing the tiles with the same oiled mortar etc., complete, all as per standard specifications.	M2	373.30

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
390	0714	Labour charges for repairing the weathering course tiles. Scope includes cleaning the surfaces by removal of vegetation growth, dry leaves etc., racking out the tile joints, replacing the damaged tiles wherever necessary with new ones supplied by department, pointing the tiles with cement mortar 1:3 and applying mendo non-tar plast cement over the pointed surfaces. (Tiles and mendo non tar plast cement will be supplied by BHEL at stores at free of cost.)	M2	118.60
391	0715	Labour charges for repairing the weathering course tiles. Scope includes cleaning the surfaces by removal of vegetation growth, dry leaves etc., rack-ing out the tile joints, replacing the damaged tiles wherever necessary with new ones supplied by department, pointing the tiles with cement mortar 1:3 and applying mendo non-tar plast cement over the pointed surfaces. (Only Tiles will be supplied by BHEL at stores at free of cost).	M2	110.90
392	0716	Attending to leak at roof slab and wall joint, all as per instructions of Engineer-in-charge. Rate includes dismantling the weathering course tiles, brick jelly lime concrete etc. for a width of minimum 100 mm at wall and slab joint for required depth so as to reach the top surface of roof slab, finishing with cement concrete in the proportion of one part of cement and three parts of 6 mm stone chips in the dismantled portion with bitumen compound filler at joint and top, finished with tiles at 1 : 1 slope along with walls including hacking walls, replacing the damaged tiles, pointing with CM 1:3 etc. complete. Cement, tiles and bitumen compound will be supplied by BHEL at stores at free of cost.	RM	176.40
393	0717	Attending to leak at roof slab and wall joint, all as per instructions of Engineer-in-charge. Rate includes dismantling the weathering course tiles, brick jelly lime concrete etc. for a width of minimum 100 mm at wall and slab joint for required depth so as to reach the top surface of roof slab, finishing with cement concrete in the proportion of one part of cement and three parts of 6 mm stone chips in the dismantled portion with bitumen compound filler at joint and top, finished with tiles at 1 : 1 slope along with walls including hacking walls, replacing the damaged tiles, pointing with CM 1:3 etc. complete. The rate shall also include cost of tiles. Cement and bitumen compound will be supplied by BHEL at stores at free of cost.	RM	205.20
394	0718	Providing weathering course on top of roof slab with one course of split tiles or pressed flat tiles of 17 to 20 mm thick of approved brand and size set in CM 1:3 with Roff plaster master plus solution (100 ml of plaster master liquid to be mixed with required quantity of water for one bag of cement), 12 mm thick bedding layer including pointing the tiles with same mortar etc. complete, all as per std. specifications. Roff plaster master only will be supplied by BHEL at Stores at free of cost.	M2	354.05

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
395	0719	Same as per SR item No. 0718 but required tiles will also be supplied by BHEL at Stores at free of cost.	M2	85.25
396	0720A	Labour charges for removing the damaged weathering course tiles and laying with new tiles set in CM 1:3 with Roff plaster master water solution (100 ml of plaster master liquid to be mixed with required quantity of water for one bag of cement), 12 mm thick bedding layer including pointing the tiles with same mortar etc. complete, all as per std. specifications. Tiles and Roff plaster master will be supplied by BHEL at Stores at free of cost. 1 to 5 tiles at one spot.	EA	37.40
397	0720B	Labour charges for removing the damaged weathering course tiles and laying with new tiles set in CM 1:3 with Roff plaster master water solution (100 ml of plaster master liquid to be mixed with required quantity of water for one bag of cement), 12 mm thick bedding layer including pointing the tiles with same mortar etc. complete, all as per std. specifications. Tiles and Roff plaster master will be supplied by BHEL at Stores at free of cost. Beyond 5 but upto 10 tiles at one spot.	EA	63.85
398	0721	Rectifying to the weathering course tile joints by scraping the old mortar joints to a minimum depth of 12 mm with wire brush and cleaning the surface of all dirt, loose mortar etc., pointing the grooved joints with CM 1:3 thoroughly mixed with Roff plaster master solution (100 ml. of plaster master liquid to be mixed with not more than 40 litre of water for one bag of cement), finishing the pointed joints smoothly, proper curing etc. complete. Roff plaster master liquid will be supplied by BHEL at Stores at free of cost.	M2	101.30
399	0722	Rectifying to the corners between wall and roof slab by removing the brick work and concrete at least to a depth of 25 mm along the corners horizontally, clearing the opened corners off all dirt and filling with roofing bituminous compound pressed gently to form smooth concaved corners and finishing the surface with CM 1:3, 12 mm thick for a maximum width of 25 cm, thoroughly mixed with Roff plaster master solution (100 ml Roff plaster master liquid to be mixed with not more than 40 litre of water for one bag of cement) to a neat finish. Bituminous compound and Roff plaster master liquid will be supplied by BHEL at Stores at free of cost.	RM	50.80
400	0801A	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 12mm thick	M2	93.25
401	0801B	Plastering with cement mortar as per standard specifications. In cement mortar 1:4, 12mm thick	M2	93.05
402	0801C	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 12mm thick	M2	92.95
403	0801D	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 15mm thick	M2	92.85
404	0801E	Plastering with cement mortar as per standard specifications. In Cement mortar 1:4, 15mm thick	M2	107.30
405	0801F	Plastering with cement mortar as per standard specifications. In Cement mortar 1:4, 15mm thick	M2	107.05

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
406	0801G	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 15mm thick	M2	106.90
407	0801H	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 15mm thick	M2	106.80
408	0801I	Plastering with cement mortar as per standard specifications. In Cement mortar 1:3, 20mm thick	M2	125.20
409	0801J	Plastering with cement mortar as per standard specifications. In Cement Mortar 1:4, 20mm thick	M2	124.90
410	0801K	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 20mm thick	M2	124.70
411	0801L	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 20mm thick	M2	124.60
412	0802	Damp proof course with cement mortar 1:3, 12 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.	M2	108.85
413	0803	Damp proof course with cement mortar 1:3, 20 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.	M2	149.35
414	0804	Damp proof course with cement mortar 1:3, 12 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	M2	99.05
415	0805	Damp proof course with cement mortar 1:3, 20 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	M2	134.15
416	0806	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications.	M2	82.10
417	0807	Plain cement mortar bands of 12 mm thick in cement mortar 1:4 to the specified width as per standard specifications.	M2	228.85
418	0808	Stucco plastering 12 mm thick with cement mortar 1:3 (1 cement and 3 coarse aggregate of 6 to 12 mm size) over a backing plastering, all as per standard specifications. (Backing plaster will be paid for separately)	M2	96.55
419	0809	Exposed aggregate plastering with crushed stone graded from 6 to 12 mm nominal size dashed over and including fresh plaster in cement mortar 1:3, 12mm thick over a backing coat of cement plaster (which will be paid separately), all as per standard specifications.	M2	128.15
420	0810	Finishing the plastered surfaces with a floating coat of cement (punning), all as per standard specifications.	M2	21.70
421	0811	Flush/Ruled pointing on stone work with cement mortar 1:3 as per standard specifications.	M2	114.05

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
422	0812	Pointing to rough stone dry packing in aprons and revetments including grouting to a depth of 40 mm with cement mortar 1:3, all as per standard specifications.	M2	62.90
423	0813	Flush pointing with cement mortar 1:3 for stone slab pavement or precast slab pavement or tiling works etc., all as per standard specifications.	M2	95.80
424	0814	Providing black board in walls in cement mortar 1:2 mixed with black oxide over rough plastered surface in cement mortar 1:4, 12 mm thick and providing 25 mm border alround in cement mortar 1:3 neatly rounded including providing and fixing with teak wood beading 50 x 25 mm on top of board and hooks and chalk stand on the bottom of board etc., all as per standard specifications.	M2	836.30
425	0827A	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. Three coats (An under coat with flatting varnish and two coats of copal varnish)	M2	93.35
426	0827B	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. Two coats	M2	62.60
427	0827C	Varnishing with varnish of approved brand and manufacture to give an even shade, all as per standard specifications. One coat	M2	40.95
428	0828A	Polishing with french polish including a coat of wood filler to give an even surface, including cleaning the surfaces of all dirt, dust and sand papered smooth, all as per standard specifications. Two coats	M2	180.30
429	0828B	Polishing with french polish including a coat of wood filler to give an even surface, including cleaning the surfaces of all dirt, dust and sand papered smooth, all as per standard specifications. One coat	M2	94.25
430	0837	Providing black board in walls in cement mortar 1:2 mixed with black oxide over rough plastered surfaces in cement mortar 1:4, 12 mm thick and providing 25 mm border alround in cement mortar 1:3, neatly rounded etc. complete.	M2	206.35
431	0838	Repairs to plaster of thickness 12 to 20 mm in patches of area 2.5 Sqm and under with cement mortar 1:4 including cutting the patches in proper shape, preparing and plastering the surface of the walls completely including disposal of rubbish within a lead of 50 metre.	M2	145.35
432	0843	Extra charges for plastering to exterior walls of height more than 13.50 metre from plinth level for every additional height of 3 metre or part thereof.	M2	30.90
433	0844	Extra charges for plastering to spherical ceiling.	M2	56.70
434	0901A	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. Soling stones 15 cm average thickness (measured in stacks will be reduced by 15 % for payment)	M3	298.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
435	0901B	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 53 mm IRC size metal (measured in stacks will be reduced by 7.5 % for payment)	M3	782.55
436	0901C	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 37.50 mm IRC size metal / 37.5 or 40 mm Stone metal ISS (measured in stacks will be reduced by 7.5 % for payment)	M3	1,029.90
437	0901D	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 22.40 mm IRC size metal (No voids)	M3	1,269.45
438	0901E	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 11.20 mm IRC size metal (No voids)	M3	837.15
439	0901F	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 6 mm IRC size metal (No voids)	M3	647.95
440	0901G	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. River sand (No voids)	M3	450.55
441	0901H	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. Gravel / Red earth (No voids)	M3	240.85
442	0901I	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. Earth (measured in stacks will be reduced by 20 % for payment)	M3	207.30
443	0901K	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. IRC graded stone aggregate of size range from 90 to 45 mm (measured in stacks will be reduced by 7.5 % for payment)	M3	539.00
444	0901L	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. IRC graded stone aggregate of size range from 63 to 45 mm (measured in stacks will be reduced by 7.5 % for payment)	M3	680.00
445	0901M	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. IRC graded stone aggregate of size range from 53 to 22.4 mm (measured in stacks will be reduced by 7.5 % for payment)	M3	930.00
446	0902A	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 150 mm dia.	RM	333.95

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
447	0902B	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 250 mm dia.	RM	443.20
448	0902C	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 300 mm dia.	RM	486.20
449	0902D	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 450 mm dia.	RM	676.05
450	0902E	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 600 mm dia.	RM	1,318.05
451	0902F	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 750 mm dia.	RM	1,602.95
452	0902G	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 900 mm dia.	RM	1,890.85
453	0902H	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 1200 mm dia.	RM	2,935.60
454	0922	Labour charges for spreading the patchmat material for road patch work. Rate includes preparation of surface, brushing, cleaning, laying patchmat, compacting etc. complete. Patchmat will be supplied by BHEL at stores at free of cost.	M2	42.00
455	1001A1	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near-by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Brick work in cement mortar	M3	530.25

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
456	1001A2	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Stone rubble masonry in cement mortar	M3	632.70
457	1001A3	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near-by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Old plastering / skirting raking out joints / chipping the concrete and roughening the surface.	M2	14.15
458	1001A4	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Plain Cement Concrete.	M3	387.15
459	1001A5	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC works including stacking of steel bars.	M3	916.95
460	1001A6	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC or PCC (Using jack hammer for pockets / cable trenches / industrial heavy duty flooring)	M3	1,599.85
461	1001A7(i)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Precast concrete or stone slabs in walls, partition walls etc. Thickness upto 40 mm	M2	78.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
462	1001A7(ii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Precast concrete or stone slabs in walls, partition walls etc. Thickness above 40 mm upto 75 mm	M2	116.80
463	1001A8	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC louvers / RCC jally	M2	152.85
464	1001A9	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Ellis pattern finish / Insitu mosaic.	M2	27.95
465	1001A10	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Tile work in floors and roofs laid in cement mortar.	M2	27.70
466	1001A11	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Brick jelly lime concrete	M3	219.15
467	1001A12	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Doors / Windows / Ventilators (steel or wood) including frame and shutters, holdfasts, hinges, fastenings etc. of area 3 sqm and below.	EA	110.15

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
468	1001A13	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Only shutters of Doors / Windows / Ventilators (steel or wood) including hinges, fastenings etc.	M2	20.00
469	1001A14	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. IWC with 'P' trap and foot rests	EA	240.20
470	1001A15	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. EWC (excluding flushing cistern) / Urinal (earthenware) of any size including foot rests / Wash basin with connected fittings / RCC precast sink or other readymade sinks with connected fittings/ Nahani trap.	EA	144.10
471	1001A16	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Flushing cistern of any size	EA	272.45
472	1001A17	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. G.I / PVC pipe lines of various dia. including all specials.	RM	10.80
473	1001A18	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. A.C / C.I rain water pipes upto 150 mm dia. with fittings and clamps.	RM	20.15

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
474	1001A19	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. S.W pipe lines upto 225 mm dia.	RM	30.25
475	1001A20(i)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Upto 150 mm dia.	RM	127.60
476	1001A20(ii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Above 150 upto 300 mm dia.	RM	169.60
477	1001A20(iii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Above 300 mm dia.	RM	220.10
478	1001A21(i)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I sluice valve Upto 150 mm dia.	EA	100.45

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
479	1001A21(ii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I sluice valve Above 150 mm dia.	EA	349.15
480	1001A27	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. False ceiling / partitions / fixed glazing, all in A.C sheet or hard board or aluminium or gypsum or other materials including connected frame works .	M2	17.50
481	1001A28	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Rough stone dry packing for apron, revetments etc.	M3	219.60
482	1001A29	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. R.C.C fencing post including all earthwork, dismantling base concrete etc.	EA	87.80
483	1001A30	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Barbed wire / flexible wire rope in fencing.	kg	9.45
484	1001A31	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. R.C.C pipes upto 450 mm dia	RM	183.55

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
485	1001A32	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Kerb stone	RM	17.85
486	1001A33	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Bituminous road.	M3	376.20
487	1001A34	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. W.B.M /W.M.M road.	M3	233.20
488	1101A	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 15 mm dia. nominal bore.	RM	147.10
489	1101B	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 20 mm dia. nominal bore.	RM	180.00
490	1101C	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 25 mm dia. nominal bore.	RM	239.65
491	1101D	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 32 mm dia. nominal bore.	RM	290.10
492	1101E	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 40 mm dia. nominal bore.	RM	345.10
493	1101F	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 50 mm dia. nominal bore.	RM	431.55

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
494	1101G	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 65 mm dia. nominal bore.	RM	531.25
495	1101H	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 80 mm dia. nominal bore.	RM	677.65
496	1101I	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 100 mm dia. nominal bore.	RM	835.65
497	1101J	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 125 mm dia. nominal bore.	RM	1,409.55
498	1101K	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 150 mm dia. nominal bore.	RM	1,627.45
499	1102	Making chases upto 7.50 x 7.50 cm in walls for concealed pipe line works etc. including making good to match with existing one after housing pipes etc. complete. Rate excludes cost of pipes.	RM	57.40
500	1103A	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 15 mm dia. nominal bore.	RM	87.00
501	1103B	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 20 mm dia. nominal bore.	RM	110.60
502	1103C	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 25 mm dia. nominal bore.	RM	162.10
503	1103D	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 32 mm dia. nominal bore.	RM	199.20

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
504	1103E	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 40 mm dia. nominal bore.	RM	232.70
505	1103F	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 50 mm dia. nominal bore.	RM	290.10
506	1103G	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 65 mm dia. nominal bore.	RM	381.70
507	1103H	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 80 mm dia. nominal bore.	RM	504.25
508	1103I	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 100 mm dia. nominal bore.	RM	650.95
509	1103J	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 125 mm dia nominal bore.	RM	1,150.25
510	1103K	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 150 mm dia nominal bore.	RM	1,360.80
511	1104A	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 18/20 mm OD (10 kg/Sq.cm)	RM	62.90
512	1104B	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 25 mm OD (10 kg/Sq.cm)	RM	80.05
513	1104C	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 32 mm OD (10 kg/Sq.cm)	RM	96.10

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
514	1104D	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 40 mm OD (6 kg/Sq.cm)	RM	119.65
515	1104E	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 50 mm OD (6 kg/Sq.cm)	RM	156.80
516	1105A	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 18/20 mm OD (10 kg/Sq.cm)	RM	23.35
517	1105B	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 25 mm OD (10 kg/Sq.cm)	RM	32.35
518	1105C	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 32 mm OD (10 kg/Sq.cm)	RM	46.25
519	1105D	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 40 mm OD (6 kg/Sq.cm)	RM	51.10
520	1105E	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 50 mm OD (6 kg/Sq.cm)	RM	72.35
521	1105F	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 63 mm OD (6 kg/Sq.cm)	RM	108.50
522	1105G	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 75 mm OD (6 kg/Sq.cm)	RM	150.70
523	1105H	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 90 mm OD (6 kg/Sq.cm)	RM	211.45

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
524	1105I	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 110 mm OD (6 kg/Sq.cm)	RM	294.65
525	1105J	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 140 mm OD (6 kg/Sq.cm)	RM	464.30
526	1105K	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 160 mm OD (6 kg/Sq.cm)	RM	594.70
527	1105L	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 180 mm OD (6 kg/Sq.cm)	RM	774.35
528	1105M	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 200 mm OD (6 kg/Sq.cm)	RM	941.90
529	1106A	Providing and fixing PVC pipes of 4 K.G / Sq cm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 75 mm OD	RM	128.05
530	1106B	Providing and fixing PVC pipes of 4 K.G / Sq cm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 110 mm OD	RM	225.20
531	1106C	Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 110 mm OD	RM	364.85
532	1107A	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 x75 x 75 mm single tee with door.	EA	134.50
533	1107B	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 x 110 x 110 mm single tee with door.	EA	197.90

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
534	1107C	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 x 160 x 160 mm single tee with door.	EA	335.15
535	1107D	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 x75 x 75 mm single tee without door.	EA	119.10
536	1107E	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 x110 x 110 mm single tee without door.	EA	174.80
537	1107F	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 x160 x 160 mm single tee without door.	EA	288.85
538	1107G	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 mm shoe	EA	68.60
539	1107H	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 mm shoe	EA	101.70
540	1107I	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 mm shoe	EA	174.90
541	1107J	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 mm bend	EA	81.90
542	1107K	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 mm bend	EA	150.25
543	1107L	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 mm bend	EA	191.50

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
544	1108A	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 15 to 25 mm nominal bore	EA	421.70
545	1108B	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 32 mm nominal bore	EA	545.35
546	1108C	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 40 mm nominal bore	EA	712.80
547	1108D	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 50 mm nominal bore	EA	962.70
548	1108E	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 80 mm nominal bore	EA	2,730.25
549	1108F	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 100 mm nominal bore	EA	4,972.00
550	1109A	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 15 mm nominal bore.	EA	207.55
551	1109B	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 20 mm nominal bore.	EA	265.25
552	1109C	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 25 mm nominal bore.	EA	342.10
553	1110(A)	Providing and fixing in position of following of approved brand (ISI marked) 15 mm nominal bore C.P brass long nose bibcock	EA	748.70
554	1110(B)	Providing and fixing in position of following of approved brand (ISI marked) 15mm nominal C.P brass stop cock (concealed)	EA	585.95
555	1110(C)	Providing and fixing in position of following of approved brand (ISI marked) 15 mm nominal C.P brass long body bibcock	EA	577.10
556	1111	Providing and fixing in position 15 mm nominal bore C.P brass angle valve for basin mixer and geyser points of approved brand (ISI marked)	EA	479.85
557	1112	Providing and fixing in position 100 mm dia C.P brass shower rose (tilting type) of approved brand with 15 or 20 mm dia. inlet.	EA	67.65

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
558	1113	Providing and fixing in position of white glazed earthenware wash basin of size 550 x 400 x 225 mm of approved brand with M.S or C.I brackets painted with two coats of synthetic enamel paint, single 15 mm C.P brass pillar tap and C.P brass chain with rubber plug, 32 mm C.P brass waste coupling of standard pattern, 32 mm dia PVC flexible waste pipe etc. complete, including cutting and making good the walls wherever required.	EA	1,605.80
559	1114	Providing built-in-wash basin of inner dimension 0.30 x 0.25 m with 50 mm thick bottom slab in cement concrete 1:2:4, using 12 to 20 mm size hard broken granite stone jelly and 30 mm thick side walls in cement concrete 1:2:4 using 6 mm granite stone chips applied over chicken mesh and finished with insitu gray mosaic of 10 mm thick wearing layer on both faces. Rate includes cost of all materials, labour, centering, curing and all other incidentals but excluding cost of binding wire and fabrication charges for grills.	RM	1,154.50
560	1115(A)	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) PTMT towel rail 600 mm	EA	382.05
561	1115(B)	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) Brass chromium plated towel rail 600 mm and 20 mm dia.	EA	399.65
562	1115(C)	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) Anodised aluminium Towel rail 60cm long and 20mm dia. with brackets	EA	266.55
563	1116(i)	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. 600 x 450 x 5 mm bevelled edge mirror	EA	374.00
564	1116(ii)	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Circular shape 450 mm dia. Mirror with Plastic moulded frame	EA	528.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
565	1116(iii)	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Rectangular shape 453x357 mm Mirror with Plastic moulded frame	EA	363.00
566	1116(iv)	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Oval shape 450x350 mm (outer dimensions) Mirror with Plastic	EA	418.00
567	1116(v)	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	EA	803.00
568	1117	Providing and fixing in position of 600 x 120 x 5 mm glass shelf (approved brand) with edges rounded off, supported on anodised aluminium angle frame with C.P brackets fixed with screws , rawl plugs etc. complete.	EA	308.00
569	1118	Providing and fixing RCC precast sink of size 60 x 45 x 25 cm in cement concrete of mix 1:2:4 for 25 mm thick bottom slab and 20 mm thick side walls using 6 mm granite stone jelly, applied on chicken mesh and plastered both sides with cement mortar 1:4, 12 mm thick and finished smooth, supply and fixing PVC waste pipe 32 mm dia. with necessary coupling. etc., complete. Rate includes cost of all materials, labour, curing, carrying and fixing in position etc. but excluding cost of binding wire and fabrication charges for grills, all as per standard specifications	EA	1,244.40
570	1119A	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Cudappa sink of size 600X450X200 or thereabouts (outer dimensions) - 12 mm thick.	EA	766.10
571	1119B	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Cudappa sink of size 600X600X200 or thereabouts (outer dimensions) - 12 mm thick.	EA	932.15
572	1119C	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Marble (white) sink of size 23" x 17" x 9"/10" or thereabouts (outer dimensions) - 12 mm thick.	EA	1,174.80
573	1119D	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Marble (white) sink of size 23" x 23" x 9"/10" or thereabouts (outer dimensions) - 12 mm thick.	EA	1,460.80

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
574	1119E	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Granite (black) sink of size 23" x 17" x 9"/10" or thereabouts (outer dimensions) - 12 mm thick.	EA	1,614.80
575	1119F	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Granite (black) sink of size 23" x 23" x 9"/10" or thereabouts (outer dimensions) - 12 mm thick.	EA	1,900.80
576	1120	Conveying RCC/ readymade sink from BHEL stores to site of work and fixing in proper position with cement mortar including supply and fixing 32 mm dia PVC waste pipe with necessary coupling etc. complete. Rate excludes cost of sink which will be supplied by BHEL at stores at free of cost.	EA	181.50
577	1121	Providing and fixing in position of 100 x 75 mm Nahani trap with PVC grating, all as per standard specifications.	EA	182.70
578	1122	Providing and fixing in position of 150 mm SW gully trap with HCI grating, all as per standard specifications.	EA	288.75
579	1123A	Providing and fixing in position of brass ball valve of approved brand with plastic float fitted with brass rod etc. complete. 20mm nominal bore	EA	385.80
580	1123B	Providing and fixing in position of brass ball valve of approved brand with plastic float fitted with brass rod etc. complete. 25mm nominal bore	EA	432.30
581	1124A	Providing and fixing in position of Indian type white glazed earthenware water closet pan of approved brand with suitable P or S trap including a pair of white glazed foot rest etc. complete. 580 mm size	EA	1,112.35
582	1124B	Providing and fixing in position of Indian type white glazed earthenware water closet pan of approved brand with suitable P or S trap including a pair of white glazed foot rest etc. complete. 500 mm size	EA	1,579.85
583	1125A	Providing and fixing in position of Orissa pattern water closet of approved brand with integral type foot rests, suitable P or S trap etc. complete. 580 mm size (White) (Parryware / Neycer / Cera)	EA	1,815.25
584	1125B	Providing and fixing in position of Orissa pattern water closet of approved brand with integral type foot rests, suitable P or S trap etc. complete. 580 mm size (colour)	EA	2,146.35
585	1126	Providing and fixing in position of 25 mm nominal bore C.P half turn flush valve of approved brand (ISI marked) in pipe lines.	EA	1,017.50

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
586	1127A	Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. complete. White glazed (white seat and lid)	EA	4,530.05
587	1127B	Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. complete. Colour glazed with colour seat and lid	EA	4,931.55
588	1128	Providing and fixing in position of 10 litre low level PVC flushing cistern of approved make with fittings and flush pipe etc. complete.	EA	679.95
589	1129	Providing and fixing in position 32 mm dia G.I flush pipe with brass union for high level flushing cistern including cutting and making good the walls and floors etc. complete.	EA	543.95
590	1130(i)	Providing and fixing in position of white glazed earthenware urinal of approved brand with teakwood plugs and screws/clamps, including standard PVC flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, cutting of floor and walls and making good all damages and finishing to match with the existing work etc., complete. Flat back angular lipped urinal of 430 x 260 x 350 mm or 340 x 410 x 265 mm	EA	1,383.50
591	1130(ii)	Providing and fixing in position of white glazed earthenware urinal of approved brand with teakwood plugs and screws/clamps, including standard PVC flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, cutting of floor and walls and making good all damages and finishing to match with the existing work etc., complete. Flat back half stall urinal of size 580x380x350 mm	EA	2,606.70
592	1131A	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 100 mm dia. S.W Pipes	RM	176.75
593	1131B	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 150 mm dia. S.W Pipes	RM	270.45

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
594	1131C	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 200 mm dia S.W Pipes	RM	402.65
595	1131D	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 225 mm dia S.W Pipes	RM	491.75
596	1132A	Providing rectangular/circular manhole as per Drawing No. D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Upto 0.90 m depth (Rectangular)	EA	4,131.75
597	1132B	Providing rectangular/circular manhole as per Drawing No. D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 0.90 and upto 1.20 m depth (Rectangular)	EA	6,589.65

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
598	1132C	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.20 and upto 1.50 m depth (Rectangular)	EA	8,361.35
599	1132D	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.50 and upto 1.80 m depth (Rectangular)	EA	9,284.90
600	1132E	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.80 and upto 2.10 m depth (Rectangular)	EA	10,773.80

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
601	1132F	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.10 and upto 2.40 m depth (Rectangular)	EA	12,463.50
602	1132G	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.40 and upto 2.70 m depth (Rectangular)	EA	15,600.85
603	1132H	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.70 and upto 3.00 m depth (Rectangular)	EA	16,756.65

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
604	1132I	Providing rectangular/circular manhole as per Drawing No. D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 3.00 and upto 3.30 m depth (Rectangular)	EA	18,619.60
605	1132J	Providing rectangular/circular manhole as per Drawing No. D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 3.30 and upto 3.60 m depth (Rectangular)	EA	20,482.55
606	1133A	Supply and fixing C.I cover with/without frame for manholes/gully traps. 500 mm dia C.I cover only (Without frame) (Medium duty) Weight of the cover to be not less than 58 K.G.	EA	2,587.35
607	1133B	Supply and fixing C.I cover with/without frame for manholes/gully traps. 500 mm dia C.I cover with frame (Medium duty) Total weight of cover and frame to be not less than 116 K.G (Weight of cover 58 K.G and weight of frame 58 K.G)	EA	5,309.70
608	1133C	Supply and fixing C.I cover with/without frame for manholes/gully traps. 560 mm dia C.I cover only. (Without frame) (Heavy duty) Weight of cover to be not less than 108 K.G.	EA	5,562.35
609	1133D	Supply and fixing C.I cover with/without frame for manholes/gully traps. 560 mm dia C.I cover with frame. (Heavy duty) Total weight of cover and frame to be not less than 208 K.G (Weight of cover 108 K.G and weight of frame 100 K.G)	EA	10,045.20
610	1133E	Supply and fixing C.I cover with/without frame for manholes/gully traps. 300 x 300 mm C.I cover without frame for gully trap (standard pattern) The weight of cover to be not less than 4.50 K.G.	EA	260.60

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
611	1134	Labour charges for laying centrifugally C.I pipes (S and S or flanged pipes) in trenches to proper grade and alignment. Rate excludes cost of pipes.	MT	1,020.45
612	1135	Labour charges for laying C.I specials such as tees, bends, collars, tapers, caps etc. in trenches to proper alignment. Rate excludes cost of specials.	MT	1,960.45
613	1136A	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 80 mm dia C.I pipe.	EA	44.65
614	1136B	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 100 mm dia C.I pipe.	EA	60.10
615	1136C	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 125 mm dia C.I pipe.	EA	83.90
616	1136D	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 150 mm dia C.I pipe	EA	113.10
617	1136E	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 200 mm dia C.I pipe.	EA	150.85
618	1136F	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 250 mm dia C.I pipe.	EA	186.95
619	1136G	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 300 mm dia C.I pipe.	EA	224.70
620	1136H	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 350 mm dia C.I pipe.	EA	260.80
621	1136I	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 400 mm dia C.I pipe.	EA	298.30
622	1136J	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 450 mm dia C.I pipe.	EA	334.65
623	1137A	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 80 / 100 mm dia pipe.	EA	163.50
624	1137B	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 125 / 150 mm dia pipe.	EA	241.50
625	1137C	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 200 / 250 mm dia pipe.	EA	365.95

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
626	1137D	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 300 / 350 mm dia. pipe.	EA	498.25
627	1137E	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 400 / 450 mm dia. pipe	EA	698.95
628	1138A	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 100 / 125 mm dia. pipe.	EA	173.25
629	1138B	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 150 / 200 mm dia. pipe.	EA	208.55
630	1138C	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 250 / 300 mm dia. pipe.	EA	323.45
631	1138D	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 350 / 400 mm dia. pipe.	EA	453.75
632	1138E	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 450 / 500 mm dia. pipe.	EA	836.75
633	1139	Desludging and cleaning the underground equalising reservoirs by dewatering, scraping the silt deposited on floor, brushing, swabbing, cleaning, scraping side walls and floors with bleaching powder, removing dirt, moss, cleaning the reservoirs with fresh water etc. complete. Rate includes labour, scaffolding, brushes, brooms etc. complete. Bleaching powder, electrical / diesel operated pumps with power/diesel and fresh water will be supplied by BHEL at free of charges.	M2	6.00
634	1140	Cleaning the main over head water tanks by dewatering, scouring the silt deposited on the floor of tanks, removing cobweb, brushing, scraping the side walls and floors of inner and outer compartments using cleaning powder, removal of sediment, applying cleaning powder on all interior surfaces and kept under disinfection for a minimum of 12 hour, then washing thoroughly with clean water without any residual cleaning powder or any foreign matter etc. complete. Rate includes all labour, brushes, brooms etc. Cleaning powder will be supplied by BHEL at stores at free of cost. Payment will be made for the floors and inside walls of the water tanks. (Staging height may vary from 15 to 23 M from ground level)	M2	6.50

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
635	1141	Cleaning of over head water tank of 500 cum capacity with a staging height of 23 to 40 M from ground level by dewatering, removing algae, fungus, scouring the silt deposited on the floors of the tank, removing cobweb, brushing, scraping the side walls of inner and outer shells, floors, columns and beams using necessary cleaning powder on all interior surfaces and kept under disinfection for a minimum of 12 hour, then washing thoroughly with clean water without any residual cleaning powder or any other foreign matter etc., complete. Necessary cleaning powder, brushes, brooms and ladder will be supplied by BHEL at stores at free of cost. Contractor has to take all safety precautions.	EA	4,800.75
636	1142A	Replacement to the damaged water closet by providing new Orissa water closet pan of approved brand with suitable trap. Rate includes dismantling the damaged water closet with foot rests, trap, Ellis / mosaic floor finish with base concrete, sand and refilling with fresh river sand, providing new Orissa pan with trap and fixing in position, providing 20 mm thick Ellis pattern finish over 75 mm thick floor concrete in PCC 1:5:10 using 40 mm size stone jelly for that area, finishing the side walls to match with the existing one etc. complete. 580 mm size (White)	EA	1,617.90
637	1142B	Replacement to the damaged water closet by providing new Orissa water closet pan of approved brand with suitable trap. Rate includes dismantling the damaged water closet with foot rests, trap, Ellis/mosaic floor finish with base concrete, sand and refilling with fresh river sand, providing new Orissa pan with trap and fixing in position, providing 20 mm thick Ellis pattern finish over 75 mm thick floor concrete in PCC 1:5:10 using 40 mm size stone jelly for that area, finishing the side walls to match with the existing one etc. complete. 580 mm size (White), but with 20 mm thick insitu mosaic floor finish as per usual practice instead of Ellis pattern finish.	EA	1,788.40
638	1143	Replacement to the damaged European water closet by providing new white glazed European water closet (white) 400 mm high of approved brand with seat and lid. Rate includes dismantling the damaged water closet, providing new EWC, fixing, all labour etc. complete.	EA	1,495.60
639	1144	Labour charges for dismantling the trap alone without damaging the water closet and refixing with new trap supplied by BHEL at stores at free of cost and making good all damages and finishing to match with the existing one etc. complete.	EA	211.75
640	1145	Replacement to the damaged nahani trap by providing and fixing in position of new PVC nahani trap 100 x 75 mm with grating as per std. specns. Rate includes labour for dismantling the existing trap, refixing with new one, making good all damages and finishing to match with the existing one etc., complete.	EA	352.00

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
641	1146	Providing 32 mm dia PVC waste pipe to sink with necessary coupling etc complete.	EA	49.50
642	1149A	Providing 32 mm dia PVC waste pipe to sink with necessary coupling etc complete. Each 49.50 642 1149A Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 15 mm dia nominal bore.	RM	58.55
643	1149B	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 20 mm dia nominal bore.	RM	64.85
644	1149C	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 25 mm dia nominal bore.	RM	71.40
645	1149D	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 32 mm dia nominal bore.	RM	80.05
646	1149E	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 40 mm dia nominal bore.	RM	102.15
647	1149F	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 50 mm dia nominal bore.	RM	124.10
648	1149G	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 65 mm dia nominal bore.	RM	135.20

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
649	1149H	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 80 mm dia nominal bore.	RM	143.70
650	1149I	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 00 mm dia nominal bore.	RM	229.75
651	1149J	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 125 mm dia nominal bore.	RM	163.35
652	1149K	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 150 mm dia nominal bore.	RM	172.40
653	1150A	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 15 mm diameter pipe	RM	8.45
654	1150B	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 20 mm diameter pipe	RM	9.95
655	1150C	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 25 mm diameter pipe	RM	13.10
656	1150D	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 32 mm diameter pipe	RM	15.50
657	1150E	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 40 mm diameter pipe	RM	18.40
658	1150F	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 50 mm diameter pipe	RM	21.70

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
659	1151A	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Upto 500 litre	EA	99.00
660	1151B	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Above 500 but up to 1000 litre	EA	123.20
661	1151C	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Above 1000 but up to 2000 litre	EA	198.00
662	1152A	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 15 mm dia nominal bore.	RM	8.45
663	1152B	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 20 mm dia nominal bore.	RM	8.45
664	1152C	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 25 mm dia nominal bore	RM	12.90
665	1152D	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 32 mm dia nominal bore.	RM	12.95
666	1152E	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 40 mm dia nominal bore.	RM	17.25

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
667	1152F	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 50 mm dia nominal bore.	RM	17.45
668	1152G	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 65 mm dia nominal bore.	RM	30.55
669	1152H	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 80 mm dia nominal bore.	RM	30.75
670	1152I	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 100 mm dia nominal bore.	RM	45.10
671	1152J	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 125 mm dia nominal bore.	RM	45.10
672	1152K	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 150 mm dia nominal bore.	RM	70.50
673	1153(A)	Providing and fixing gun metal non- return valve of approved quality (screwed end) 25 mm nominal bore (Horizontal)	EA	388.30
674	1153(B)	Providing and fixing gun metal non- return valve of approved quality (screwed end) 25 mm nominal bore (Vertical)	EA	421.30
675	1153(C)	Providing and fixing gun metal non- return valve of approved quality (screwed end) 32 mm nominal bore (Horizontal)	EA	522.70
676	1153(D)	Providing and fixing gun metal non- return valve of approved quality (screwed end) 32 mm nominal bore (Vertical)	EA	599.70
677	1153(E)	Providing and fixing gun metal non- return valve of approved quality (screwed end) 40 mm nominal bore (Horizontal)	EA	646.15
678	1153(F)	Providing and fixing gun metal non- return valve of approved quality (screwed end) 40 mm nominal bore (Vertical)	EA	855.15

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
679	1153(G)	Providing and fixing gun metal non- return valve of approved quality(screwed end) 50 mm nominal bore (Horizontal)	EA	934.80
680	1153(H)	Providing and fixing gun metal non- return valve of approved quality(screwed end) 50 mm nominal bore (Vertical)	EA	1,143.80
681	1153(I)	Providing and fixing gun metal non- return valve of approved quality(screwed end) 65 mm nominal bore (Horizontal)	EA	1,674.25
682	1153(J)	Providing and fixing gun metal non- return valve of approved quality(screwed end) 65 mm nominal bore (Vertical)	EA	1,916.25
683	1153(K)	Providing and fixing gun metal non- return valve of approved quality(screwed end) 80 mm nominal bore (Horizontal)	EA	2,369.90
684	1153(L)	Providing and fixing gun metal non- return valve of approved quality(screwed end) 80 mm nominal bore (Vertical)	EA	3,216.90
685	1154	Supply at site of work and fixing in position of 32mm dia. CP bottle trap for water line connection in wash basin / urinals of approved brand and quality. All as per standard specifications and instructions of Engineer-in-charge.	EA	625.75
686	1155	Supplying and placing in proper position of Polyethylene cylindrical moulded vertical storage tank of 500 litres capacity of approved quality in buildings at required levels / floors as per the instruction of Engineer in charge. Rate shall include cost of the tank, taxes, duties, loading unloading transportation charges delivery to BHEL conveying to site of work and placing in position at required level, fixing the barrel nipple to the tank etc., and all other incidental charges etc., complete. Rate will exclude the cost of all special like barrel nipple etc., which will be issued by BHEL at free of cost	EA	3,759.30
687	1156	Providing and fixing in position of fire clay laboratory sink (white) of size 610 mm x 460 mm x 205 mm or thereabouts of approved make and quality Neycer or equivalent with 32 mm waste coupling, waste hose and 250 mm clamps with necessary fixing arrangements. Rate includes cost of sink, waste coupling, waste hose, clamps, labour for fixing and all other incidental charges etc., complete. All as per standard specifications and instructions of Engineer in charge.	EA	9,211.70
688	1157	Providing and fixing in position of white glazed earthen ware wash hand basin of oval shape size 540 mm x 460 mm or thereabouts of approved make and quality (Parry ware or equivalent) with 32 mm CP Waste coupling and necessary fixing arrangements. Rate includes cost of wash basin, waste coupling, labour for fixing and all other incidental charges, etc., complete. All as per standard specifications and instructions of Engineer in charge	EA	2,066.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
689	1158	Providing and fixing in position of Float valve- PTMT (Poly Tetra- Methylene Terephthalate) Ball Cock-20 mm nominal bore of PRAYAG (India) make with Epoxy coated Aluminium rod and HD Ball etc. complete(Full Set)	EA	302.00
690	1201A	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections of approved make conforming to IS:733 and 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and joined mechanically wherever required including cleat angle, aluminium snap beading for glazing / panelling, C.P brass / stainless steel screws, all complete as per architectural drawings and instructions of Engineer-in-charge. (Glazing and panelling to be paid for separately) For fixed portion - Anodised aluminium (anodised transparent or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15)	kg	302.20
691	1201B	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections of approved make conforming to IS:733 and 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and joined mechanically wherever required including cleat angle, aluminium snap beading for glazing / panelling, C.P brass / stainless steel screws, all complete as per architectural drawings and instructions of Engineer-in-charge. (Glazing and panelling to be paid for separately) 'For shutters of doors, windows and ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including cost of PVC/ neoprene gasket required. (Fittings shall be paid for separately) Anodised as of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge. Non Decor	kg	324.40
692	1202	Same as per SR Item Nos.1201 A and B and 1208, but for powder coated aluminium (minimum thickness of powder coating 50 micron) sections instead of anodised aluminium sections. Extra rate to be added over and above Item Nos.1201 A and B and 1208	Kg	26.40
693	1203	Same as per SR Item Nos.1201 A and B and 1208, but for polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) sections instead of anodised aluminium sections. Extra rate to be added over and above Item Nos.1201 A and B and 1208.	Kg	33.00
694	1204A	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.) With float glass panes of 4 mm thick	M2	797.60

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
695	1204B	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.) With float glass panes of 5.50 mm thick	M2	948.40
696	1205	Providing and fixing double action hydraulic floor spring with stainless steel cover plate of approved brand and manufacture conforming to IS : 6315 for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S sheet outer box with side plate etc. complete as per instructions of Engineer-in- charge.	EA	1,904.05
697	1206	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee / angle sections of approved make conforming to IS:733 in frames of false ceiling including aluminium angle cleats with necessary C.P brass / stainless steel sunk screws, aluminium perimeter angles fixed to wall with rawl plugs at 450 mm c/c and fixing the frame work to level adjusting hangers (6mm dia MS rods) with necessary cadmium plated machine screws, all complete as per drawing and directions of Engineer-in-charge.(Level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately)	Kg	451.90
698	1207	Providing and fixing 6 mm dia G.I level adjusting hangers (upto 1200 mm length) fixed to roof slabs by means of ceiling cleats made of G.I flat 40 x 3 mm size, 60 mm long and expansion hold fasteners 12.5 mm dia, 40 mm long etc. complete	EA	99.90
699	1208	Providing and fixing machine moulded anodised aluminium (anodised transparent or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15) sheet covering of approved pattern and design made out machine cut aluminium sheet and machine holed for receiving screws, over expansion joints on vertical surfaces / ceilings with full threaded cadmium plated steel screws 4 mm dia. stem 30 mm long and aluminium washers 2 mm thick, 15 mm dia at a staggered pitch of 200 mm c/c including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete.	Kg	400.20

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
700	1209	Providing false ceiling at all height with 12.5 mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections of power pressed from M.S sheet and galvanised in accordance of zinc coating of grade 350 as per IS:277 and consisting of angle cleats of size 25 wide & 1.6 mm thick with flanges of 22 mm and 37 mm at 1200 mm c/c one flange fixed to the ceiling with dash fastener 12.5 mm dia. 40 mm long with 6 mm dia. bolts to the angle hangers of 25 x 25 x 0.55 mm of required length and other end of angle hanger being fixed with nut and bolts to G.I channels 45 x 15 x 0.9 mm running at the rate of 1200 mm c/c to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having clips of 10.5 mm at 450 mm c/c shall be fixed in a direction perpendicular to G.I channel with connecting clips made of 2.64 mm dia. 230 mm long G.I wire at every junction including fixing the gypsum board with ceiling section and perimeter s of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge. Non Decorative finishes, labour, incidentals etc. complete. r specification of Engineer in charge. Rate includes cost of all materials, labour and other incidentals etc., complete labour and other incidentals etc., complete.c., complete.r and two coats of primer suitable for gypsum board as per manufacturers' specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing, specification and direction of Engineer-in-charge, but excluding the cost of painting.	M2	740.65
701	1210A	Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , suspended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge. Arm Gyp- FB Ceiling tiles of Armstrong make of size 595mm x 595mm x 9mm thick	M2	1,246.05

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
702	1210B	Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , suspended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge. Aruba- FB Ceiling tiles of Armstrong make of size 595mm x 595mm x7.5mm thick	M2	1,137.60
703	1211A	Providing 10 mm thick plaster of paris (Gypsum anhydrous) ceiling upto a height of 5 metre above floor level over first clas kail wood strips 25 x 6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden. (Frame work will be paid separately) Flat surfaces	M2	715.50
704	1211B	Providing 10 mm thick plaster of paris (Gypsum anhydrous) ceiling upto a height of 5 metre above floor level over first class kail wood strips 25 x 6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden. (Frame work will be paid separately) Curved surfaces	M2	826.10
705	1212	Extra for any sunk or raised mouldings in the plaster of paris (Gypsum anhydrous) ceiling.	M2	207.60
706	1213	Extra for providing plaster of paris (Gypsum anhydrous) ceiling for every 1 m height above 5 metre height from floor level. (Height beyond 5 metre to be measured for extra payment)	M2	84.05
707	1214	Providing and fixing 100 mm brass lock (mortise latch and lock with six levers) for aluminium doors including necessary cutting and making good etc. complete.	EA	371.04
708	1215	Providing and fixing anodised (AC 15) aluminium round shape handle of outer dia. 100 mm with SS screws etc. complete, all as per instructions of Engineer in charge.	EA	58.60
709	1216	Providing and fixing powder coated (50 micron) aluminium round shape handle of outer dia. 100 mm with SS screws etc. complete, all as per instructions of Engineer in charge.	EA	64.10
710	1217	Providing and fixing polyester powder coated (50 micron) aluminium round shape handle of outer dia. 100 mm with SS screws etc. complete, all as per instructions of Engineer in charge.	EA	69.60
711	1218	Servicing / overhauling, oiling, cleaning of aluminium door / window shutter of any size for smooth operation as per instructions of Engineer-in-charge. Rate includes cost of tool and labour (Excluding cost of spares which will be paid separately) and other incidental charges etc., complete	M2	179.50

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
712	1219A	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-4" open -7.5 mm thk. (245-255g/sqft)	M2	1,922.40
713	1219B	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-4" open -6.3 mm thk 175-185g/sqft	M2	1,637.75
714	1219C	Providing Powder coated aluminium alloy grills of following and fixing in proper position in windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-4" open -5.5 mm thk 125-135g/sqft	M2	1,495.40
715	1219D	Providing Powder coated aluminium alloy grills of following and fixing in proper position in Windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-3" open -7.5 mm thk 315-325g/sqft	M2	2,207.15
716	1219E	Providing Powder coated aluminium alloy grills of following and fixing in proper position in Windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-3" open -6.3 mm thk 230-240g/sqft	M2	1,993.60
717	1219F	Providing Powder coated aluminium alloy grills of following and fixing in proper position in Windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-3" open -5.5 mm thk 160-170g/sqft	M2	1,708.90
718	1219G	Providing Powder coated aluminium alloy grills of following and fixing in proper position in Windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-2" open -7.5 mm thk 410-420 g/sqft	M2	2,420.70

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
719	1219H	Providing Powder coated aluminium alloy grills of following and fixing in proper position in Windows / ventilators/balconies/partitions/fences/racks etc. with necessary appropriate type, material, brand and quality screws as per manufacturers recommendation etc. complete, all as per the instructions of Engineer-in-charge. Aluminium Grill 12x4-2" open -5.5 mm thk 200-210g/sqft	M2	2,207.15
720	1220	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below: The bottom 90 cm and top 110 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced prelaminated (both side) particle board of approved shade with Powder coated aluminium frame work. The middle 120 cm height of partition shall be of glazed using 5 mm thick plain glass and powder coated aluminium frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using 8 mm anchor fasteners including cutting and making good the walls and floors etc., complete.</p> <p>FRAME WORK: The frame work shall be with Powder coated aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc. without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete.</p>	M2	2,365.85
721	1221	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below: The bottom ,middle and top of the partition (full portion) shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced prelaminated (both side) particle board of approved shade with Powder coated aluminium frame work.</p> <p>FRAME WORK: The frame work shall be with Powder coated aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete.</p>	M2	2,385.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
722	1222	<p>Manufacturing, supplying and fixing in position of Aluminium partitions for an approximate height of 1.50m as detailed below:</p> <p>The bottom 90 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced prelaminated (both side) particle board of approved shade with Powder coated aluminium frame work. The top 0.60 m height of partition shall be of glazed using 5 mm thick frosted glass and anodized aluminium frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using metal fasteners including cutting and making good the walls and floors etc. complete. The frame work shall be with Powder aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 3/4" x 1 3/4" and 1.70 mm thick (1.312 kg/m) approximate. The middle, top and vertical members shall be of size 2 1/2" x 1 1/2" and 1.28 mm thick (0.754 kg/m) approximate and the verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	3,313.55
723	1223	<p>Manufacturing, supplying and fixing in position of Powder coated aluminium single leaved/double leaved glazed door of overall size 1.00 x 2.10m with suitable frame work as per the following specification and instructions of Engineer- in- charge.</p> <p>The alround vertical and horizontal outer frame shall be with 4" x 1 3/4" x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3 3/4" x 1 3/4" x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1 3/4" x 1 3/4" x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos of 1 3/4" x 1 3/4" x 1.70 mm thick (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The upper panel of 120 cm shall be with 5 mm thick plain glass and lower panel of 90cm shall be with 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced prelaminated (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminium handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminium tower bolt, suitable lock (4 lever), required top and bottom pivots, all as per specification of Engineer in charge. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	3,507.75

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
724	1224	Supplying and fixing in position of aluminium ventilator using Powder coated aluminium section of size 2 ½" x 1 ½" and 1.28 mm thick (0.754 kg/m) for frames confirming to IS: 1948 of latest edition. The fixed and louvered glass panels shall be 5mm thick frosted glass panes. The ventilator should have required No. of louvers fitted properly in aluminium frame work having arrangement to close / open. The rate quoted shall include cost of all materials, labour, fixing charges, locking arrangements etc. all as per standard specifications, drawing and code of practice and instruction of Engineer-in-charge.	M2	4,017.65
725	1225	Providing and fixing powder coated aluminium two track sliding windows of approved colours aluminium sections of size 60 x 28 x 1.20 mm (wt. 0.656 kg /m) for outer frame , 38 x 17 x 1.20 mm (0.41 kg / m) for shutter box and 38 x 17 x 1.20 mm (0.44 kg/m) for inter lock 4 mm thick plain glass for panes, PVC wheels, U rubber, screws, locking arrangements etc. complete, all as per instructions of Engineer-in-charge.	M2	2,968.60
726	1226	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below:</p> <p>The bottom 90 cm and top 110 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced prelaminated (both side) particle board of approved shade with anodised (25 micron) aluminium frame work. The middle 120 cm height of partition shall be of glazed using 5 mm thick plain glass and anodized aluminium frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using 8 mm anchor fasteners including cutting and making good the walls and floors etc., complete.</p> <p>FRAME WORK: The frame work shall be with anodised (25 micron) aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc. without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete.</p>	M2	2,214.40

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
727	1227	<p>Manufacturing, supplying and fixing in position of Aluminium partitions for an approximate height of 1.50m as detailed below:</p> <p>The bottom 90 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced prelaminated (both side) particle board of approved shade with anodised (25 micron) aluminium frame work. The top 0.60 m height of partition shall be of glazed using 5 mm thick frosted glass and anodized aluminium frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using metal fasteners including cutting and making good the walls and floors etc. complete.</p> <p>The frame work shall be with anodised aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 3/4" x 1 3/4" and 1.70 mm thick (1.312 kg/m) approximate. The middle, top and vertical members shall be of size 2 1/2" x 1 1/2" and 1.28 mm thick (0.754 kg/m) approximate and the verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	2,232.60
728	1228	<p>Manufacturing, supplying and fixing in position of Aluminium partitions for an approximate height of 1.50m as detailed below:</p> <p>The bottom 90 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced prelaminated (both side) particle board of approved shade with anodised (25 micron) aluminium frame work. The top 0.60 m height of partition shall be of glazed using 5 mm thick frosted glass and anodized aluminium frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using metal fasteners including cutting and making good the walls and floors etc. complete.</p> <p>The frame work shall be with anodised aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 3/4" x 1 3/4" and 1.70 mm thick (1.312 kg/m) approximate. The middle, top and vertical members shall be of size 2 1/2" x 1 1/2" and 1.28 mm thick (0.754 kg/m) approximate and the verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	2,965.35

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
729	1229	<p>Manufacturing, supplying and fixing in position of anodised (25 micron) aluminium single leaved/double leaved glazed door of overall size 1.00 x 2.10m with suitable frame work as per the following specification and instructions of Engineer- in- charge.</p> <p>The alround vertical and horizontal outer frame shall be with 4" x 1¾" x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3¾" x 1¾" x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1¾" x 1¾" x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos of 1¾" x 1¾" x 1.70 mm (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The upper panel of 120 cm shall be with 5 mm thick plain glass and lower panel of 90cm shall be with 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced prelaminate (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminium handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminium tower bolt, suitable lock (4 lever), required top and bottom pivots, all as per specification of Engineer in charge. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	M2	3,165.55
730	1230	<p>Supplying and fixing in position of aluminium ventilator using anodised (25 micron) aluminium section of size 2½" x 1½" and 1.28 mm thick (0.754 kg/m) for frames confirming to IS: 1948 of latest edition. The fixed and louvered glass panels shall be 5mm thick frosted glass panes. The ventilator should have required No. of louvers fitted properly in aluminium frame work having arrangement to close / open. The rate quoted shall include cost of all materials, labour, fixing charges, locking arrangements etc. all as per standard specifications, drawing and code of practice and instruction of Engineer-in-charge.</p>	M2	3,854.20
731	1231	<p>Providing and fixing anodised (25 micron) aluminium two track sliding windows of approved colours aluminium sections of size 60 x 28 x1.20 mm (wt 0.656 kg /m) for outer frame , 38 x 17 x 1.20 mm (0.41 kg / m) for shutter box and 38 x 17 x 1.20 mm (0.44 kg/m) for inter lock 4 mm thick plain glass for panes, PVC wheels, U rubber, screws, locking arrangements etc. complete, all as per instructions of Engineer-in-charge.</p>	M2	2,669.75

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
732	1232A	Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , suspended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge. 7.5MM NANO TILES 600mm X 600mm	M2	949.00
733	1232B	Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , suspended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge. 4MM EVEREST TILES OSANIC 600mm X 600mm	M2	1,037.75
734	1233A	Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply and fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 12 mm flat pressed 3 layer medium density particle boards - Grade - I	M2	621.20
735	1233B	Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply and fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 12 mm thick plain/semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed conforming to IS 3087.	M2	632.25

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
736	1233C	Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply and fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 3 mm thick translucent white acrylic plastic sheets.	M2	878.30
737	1233D	Providing and fixing in position of boards/sheets/tiles of approved quality for false ceiling. Rate includes cost of all materials, conveyance, cutting to required sizes to suit the false ceiling frame work grids, wastages, supply and fixing with necessary nails/screws, all labour etc. complete. (Frame work will be paid separately) 20 mm thick thermocole boards. (22 K.G/CUM)	M2	268.35
738	1234A1	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. MDF Boards or equivalent of 6 mm thick (Regular grade)	M2	303.65
739	1234A2	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. MDF Boards or equivalent of 18 mm thick (Regular grade)	M2	680.85
740	1234A3	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Commercial plywood 6 mm thick - M.R Grade - (Anchor/Swati or equivalent)	M2	595.60
741	1234A4	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Commercial plywood 12 mm thick - M.R Grade- (Anchor/Swati or equivalent)	M2	824.65

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
742	1234A5	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Commercial plywood 6 mm thick- Synthetic resin bonded - (Anchor/Swati or equivalent)	M2	595.60
743	1234A6	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Commercial plywood 12 mm thick- Synthetic resin bonded - (Anchor/Swati or equivalent)	M2	1,222.35
744	1234A7	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 6 mm thick (Bison panel)	M2	339.95
745	1234A8	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 10 mm thick (Bison panel)	M2	489.10
746	1234A9	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 12 mm thick (Bison panel)	M2	588.50
747	1234A10	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Cement bonded particle boards - 16 mm thick (Bison panel)	M2	685.00

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
748	1234A11	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards - 6 mm thick (Bison panel)	M2	675.50
749	1234A12	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards - 8 mm thick (Bison panel)	M2	725.20
750	1234A13	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards – 10 mm thick (Bison panel)	M2	774.95
751	1234A14	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards – 12 mm thick (Bison panel)	M2	843.30
752	1234A15	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Both sides pre laminated Cement bonded particle boards – 16 mm thick (Bison panel)	M2	935.60
753	1234A16	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 9 mm thick- Regular Grade-(Novapan-Prime or equivalent)	M2	366.05

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
754	1234A17	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 12mm thick-Regular Grade-(Novapan-Prime or equivalent)	M2	438.15
755	1234A18	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 18mm thick-Regular Grade-(Novapan-Prime or equivalent)	M2	567.75
756	1234A19	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 25mm thick-Regular Grade-(Novapan-Prime or equivalent)	M2	760.60
757	1234A20	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 35mm thick-Regular Grade-(Novapan-Prime or equivalent)	M2	1,136.25
758	1234A21	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 9 mm thick-Exterior Grade-(Novapan-Prime or equivalent)	M2	419.50
759	1234A22	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 12mm thick-Exterior Grade-(Novapan-Prime or equivalent)	M2	509.60

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
760	1234A23	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 18mm thick- Exterior Grade-(Novapan-Prime or equivalent)	M2	665.90
761	1234A24	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 25mm thick- Exterior Grade-(Novapan-Prime or equivalent)	M2	897.30
762	1234A25	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Plain particle boards- 35mm thick- Exterior Grade-(Novapan-Prime or equivalent)	M2	1,353.75
763	1234A26	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 9 mm thick - (Emotive or equivalent)	M2	532.60
764	1234A27	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 9 mm thick - (Emotive or equivalent)	M2	538.85
765	1234A28	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 12 mm thick - (Emotive or equivalent)	M2	614.60

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
766	1234A29	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 12 mm thick - (Emotive or equivalent)	M2	621.50
767	1234A30	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 18 mm thick - (Emotive or equivalent)	M2	718.15
768	1234A31	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 18 mm thick - (Emotive or equivalent)	M2	724.70
769	1234A32	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (one side) particle boards - 25 mm thick - (Emotive or equivalent)	M2	902.30
770	1234A33	Supply and fixing the following boards/sheets of approved brand and quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc. complete. Rate excludes cost of respective frame works. Pre laminated (both sides) particle boards - 25 mm thick - (Emotive or equivalent)	M2	909.05
771	1235	Supplying and fixing of vertical Venetian blinds 100mm wide with dual colour of approved make (Hunter Douglas make or equivalent) and shade and / as decided by BHEL – for windows / ventilators. Rate inclusive of cost of all materials, labour for fixing and incidentals etc., complete	M2	1,191.95
772	1501	Grouting the H.D bolts, underneath the base plates etc., after alignment with wet cement grout (1:1), all as per standard specifications. Rate includes cleaning the sleeves/pockets, tools and plants required for the work etc., complete except cement which will be supplied by BHEL at stores at free of cost.	M3	16,000.65

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
773	1502	Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 40 or Pidigrout 10M or Flogrout 60 or Conbextra GP2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.	M3	53,487.40
774	1503	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 100 x 100 mm at top and 150 x 150 mm at bottom and 1.70 m high of which 45 cm will be embedded in cement concrete base below ground level. Rate includes shuttering, casting, finishing, curing, conveying and fixing in position but excluding cost of excavation, concrete base and fabrication charges for reinforcement which will be paid separately under respective items.	EA	179.05
775	1504	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 100 x 100 mm at top and 150 x 150 mm at bottom and 2.10 m high of which 45 cm will be embedded in cement concrete base below ground level. Rate includes shuttering, casting, finishing, curing, conveying and fixing in position but excluding cost of excavation, concrete base and fabrication charges for reinforcement which will be paid separately under respective items.	EA	212.05
776	1505	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 200 x 200 x 3650 mm of which 600 mm (approx.) will be embedded in cement concrete base below ground level. Rate includes making necessary groove arrangements on two sides of post for inserting 50 mm thick precast slabs, shuttering, casting, embedding 'Y' angle with necessary lugs, finishing, curing, conveying the posts including all lead, erection in position by embedding in foundation concrete up to a depth of 600 mm (approx.) below ground level true to plumb, line, level etc. complete, all as per drawings and as per instructions of Engineer in charge. Rate excludes cost of excavation, concrete base, precast slabs and it's inserting/fixing charges, fabrication charges for reinforcement and 'Y' angle which will all be paid separately under respective items.	EA	880.25
777	1506	Conveying RCC fencing post of overall height 1.70 to 2.10 m from stores/stack yard to site of work and fixing in position, line, level etc. Earth work excavation and concrete base will be paid separately.	EA	31.35
778	1507	Providing and fixing G.I barbed wire of 12 G, 2 ply and 4 barbs with spacing of barbs at 80 mm c/c for fencing including unwinding the coil and fixing in position with proper tension and alignment by means of providing G.I staples on wooden plugs or G.I binding wire tied to 6 mm bar ribs provided in the posts etc. complete.	RM	13.75

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
779	1508	Conveying G.I barbed wire, G.I staples/binding wires etc. from BHEL stores and fixing in position for fencing including unwinding the coil, fixing it in posts with proper tension and alignment by means of G.I staples on wooden plugs or G.I binding wire tied to 6 mm bar ribs provided in the posts etc. complete. Rate excludes G.I barbed wire and G.I staples / binding wire which will be supplied by BHEL at stores at free of cost.	RM	1.45
780	1509A	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. 0 - 1 Km	M3	114.00
781	1509B	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 1 Km but upto 2 Km	M3	121.65
782	1509C	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 2 Km but upto 3 Km	M3	130.25
783	1509D	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 3 Km but upto 4 Km	M3	138.80
784	1509E	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 4 Km but upto 5 Km	M3	147.40
785	1514	Labour charges for providing tarpaulin pandal to an area upto 25 Sq.m in ground floor / first floor and removing the same after the function is over. All materials such as tarpaulin, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials. (Payment will be made for each operation)	EA	646.40

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
786	1515A	Labour charges for conveying 200 litre capacity drum and pouring with full of water for function and handing over the empty drum to Stores after function is over. Drum will be supplied by BHEL at Stores at free of charges. Water has to be collected either from Township water tanks or Equalising Reservoir. Rate includes to and fro transportation. At Quarters of Kailasapuram / Kamarajapuram Township.	EA	264.05
787	1515B	Labour charges for conveying 200 litre capacity drum and pouring with full of water for function and handing over the empty drum to Stores after function is over. Drum will be supplied by BHEL at Stores at free of charges. Water has to be collected either from Township water tanks or Equalising Reservoir. Rate includes to and fro transportation. At Quarters of Nehru Nagar/ burial ground	EA	314.05
788	1516A	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation. (Payment will be made for each operation) Size 40' X 40'	EA	1,597.05
789	1516B	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation. (Payment will be made for each operation) Size 40' X 20'	EA	1,043.90
790	1516C	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation.(Payment will be made for each operation) Size 20' X 12'	EA	501.30
791	1517	Hire charges for providing 4 ' 40 watts tube light fitting with tube, necessary wire, plug etc. in the tarpaulin pandal / shamiana at G.F / F.F and removing the same after the function is over.	EA	36.30
792	1518	Labour charges for providing stage for functions and removing the same and handing over to Stores after the programme. Necessary stage materials will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation.	M2	40.10
793	1519	Labour charges for erection of flag post and tying the flag. Rate includes digging hole, erection of post and removing the same after the function is over including refilling the hole and handing over the flag post, flag etc. to Stores after the programme. Necessary flag post and flag will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation.	EA	21.30
794	1520	Labour charges for spreading coir mat and removing the same after the function is over. Rate includes to and fro transportation, labour etc. complete. Coir mat will be issued by BHEL at Stores at free of charges.	M2	5.90

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
795	1521A	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be is-sued by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials. (Payment will be made for each operation) For stage of size 32' x 20'	EA	1,358.80
796	1521B	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be is-sued by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials. (Payment will be made for each operation) For stage of size 20' x 20' or 20' x 18'	EA	1,052.10
797	1521C	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be is-sued by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials. (Payment will be made for each operation) For stage of size 20' x 12'	EA	750.90
798	1522A	Carrying the following from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, to and fro transportation etc. PVC moulded chair	EA	4.80
799	1522B	Carrying the following from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, to and fro transportation etc. Wooden chair with cushion	EA	12.00
800	1523A	Labour charges for providing Shamiana of size 40' X 40' and removing the same after the function is over. Necessary shamiana, posts etc. will be sup-plied by BHEL at Stores at free of charges. Rate includes loading and un-loading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	1,421.45
801	1523B	Labour charges for providing Shamiana of size 40' X 20' and removing the same after the function is over. Necessary shamiana, posts etc. will be sup-plied by BHEL at Stores at free of charges. Rate includes loading and un-loading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	911.90
802	1523C	Labour charges for providing Shamiana of size 20' X 12' and removing the same after the function is over. Necessary shamiana, posts etc. will be sup-plied by BHEL at Stores at free of charges. Rate includes loading and un-loading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage ma-terials, flag posts, chairs etc.	EA	402.30

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
803	1523D	Labour charges for providing stage for functions and removing the same and handing over to Stores after the programme. Necessary stage materials will be supplied by BHEL at Stores at free of charges transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc. but including loading and unloading charges, instead of transporting by the contractor.	M2	32.20
804	1523E	Labour charges for loading, unloading and erection of flag post and tying the flag. Rate includes digging hole, erection of post and removing the same after the function is over including refilling the hole and handing over the flag post, flag etc. to Stores after the programme. Necessary flag post and flag will be supplied by BHEL at Stores at free of charges and transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	16.90
805	1523F	Labour charges for loading, unloading and spreading coir mat and removing the same after the function is over Coir mat will be issued by BHEL at Stores at free of charges.	M2	1.10
806	1523G	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be is-sued by BHEL at Stores at free of charges. Rate excludes to and fro transportation of materials but includes loading and unloading charges . For stage of size 32' x 20'	EA	1,072.80
807	1523H	Labour charges for erection in position of column trusses and other accessories and spreading of shamiana, back drops etc. and removing and returning the same after the function is over. Column trusses, shamiana etc. will be is-sued by BHEL at Stores at free of charges. Rate excludes to and fro transportation of materials but includes loading and unloading charges . For stage of size 20' x 20' or 20' x 18'	EA	804.60
808	1523I	Labour charges for erection in position of column trusses and other accessories and spreading of a etc. will be is-sued by BHEL at Stores at free of charges. Rate excludes to and fro transportation of materials but includes loading and unloading charges . For stage of size 20' x 12'	EA	536.40
809	1523J	Carrying the PVC moulded chair from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, loading and un-loading charges but excludes to and fro transportation etc.	EA	0.85
810	1523K	Carrying the Wooden chair with cushion from BHEL Stores to site of work and returning the same after the function is over. Rate includes labour, loading and unloading charges but excludes to and fro transportation etc	EA	2.10

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
811	1524	Maintenance of BG tracks of BHEL siding, ensuring perfect level, cant, alignment, straightness etc. Scope includes tightening of fish plates, oiling & greasing of fish plates, driving the spikes, beating the steel keys and cotters, checking the tie bars to keep the rails in position and gauge, packing the bal-last (murrum/stone), maintaining the width of earthen embankment, cutting of unwanted trees/tree branches on either sides of tracks, clearing off the jungle & bushes to a maximum width of 4.00 m along the track and handing over the cut woods to stores etc. complete, all as per standard railway practices and also taking periodic gauge/super elevation/curve readings and submission of records. Payment will be made for the length of track for which maintenance works attended to. Tools, oil, spares etc. required for the work will be supplied by BHEL at stores at free of charges. Rate will be Paid Per RM / One Operation	RM	49.60
812	1525	Maintenance of point & crossing 1 in 8 ½ in BG by thorough packing and consolidation of ballast. Scope of work includes to bring the track to correct longitudinal and cross levels, super elevation on curve, boxing and tidying up the track to prescribed parameters with tolerance as allowed as per IRPWM, cleaning of fish plates, switches, point level, box assembling, oiling and greasing of joint / fish plates, moveable / sliding portion, cutting of unwanted trees/tree branches, clearing off jungle, bushes in & along the point & crossing area and handing over the cut woods to stores and taking periodic read-ing for maintaining the point & crossing register and submission of record, all as per standards of Indian Railways. Tools, oil, spares etc. required for the work will be supplied by BHEL at stores at free of charges. Rate will be Paid Per Point and Crossing per One time Operation	EA	3,693.55
813	1526	Cutting 90/105 lbs rail with hacksaw blade to the correct square in laid condition/free condition. Rate includes labour, tools, consumables, lead, lift etc. complete, all as directed by the Engineer-in-charge. Payment will be made for each Cutting.	EA	131.60
814	1527	Drilling 32 mm dia hole in 90/105 lbs rails to match with the fish plate holes in laid condition / free condition. Rate includes labour, tools, consumables, lead, lift etc. complete, all as directed by the Engineer-in-charge. Payment will be made per Hole.	EA	40.60
815	1528	Removing the ballasts (metal/murrum), earth etc. around the sleepers and replacing to the existing unserviceable sleepers of various lengths from the BG track and relaying with new sleepers in the same place by duly fixing the sleepers with the rail and its fittings and packing the sleepers completely with ballasts (metal/murrum) to correct level, cant, alignment etc. complete. For replacement, sleepers (Wooden/PSC/CST-9/Pot sleepers) and other connected accessories, ballasts etc. will be supplied by BHEL at stores at free of cost. Payment will be made per Sleeper	EA	320.45

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
816	1529	Carrying from stacks, leading and spreading of 40/50 mm size metal/ gravel/murram at any section of the BG track, all as per instructions of Engineer-in-charge. Rate includes all labour, incidentals etc. complete.	M3	103.90
817	1530	Removing and replacing with 90/105 lbs rails for the track, all as per standard specifications. Removed rails and other materials shall be stacked properly at the locations 'or' conveyed and handed over at stores, all as directed by the Engineer-in-charge. 90/105 lbs rails and connected required materials will be supplied at free of cost at RPS/Civil Stores/Stack yard. Rate includes conveyance, handling, straightening, drilling holes in rails to suit fish plates, hacksaw cutting the rail if required, all labour for removing the existing and replacing with new one in correct position, alignment, all other incidentals etc. complete.	MT	3,793.50
818	1532	Removing beehive of any size carefully in all levels at stage beams, columns, slabs, ladders etc., in the overhead tank or other buildings/structures etc. While removing beehive, the contractor should follow all safety rules and regulations, all as per instructions of Engineer-in-charge.	EA	330.00
819	1533	Carrying from BHEL stores to site of work and fixing GI chainlink mesh for fencing including unwinding the roll and fixing in proper position, tension and alignment by means of MS flat as stiffeners, drilled with necessary holes or as the case may be and fixed with RCC / MS fencing posts by bolts, nuts, washers etc., complete. Payment will be made based on the laid area of chainlink mesh only. Rate includes cost of labour, tools and plants and all other incidentals etc., complete but excludes cost of chain link mesh, MS flats, bolts, nuts and washers which will be supplied by BHEL at stores at free of cost. Fabrication charges for MS flats including drilling holes etc. will be paid under separate item	M2	16.50
820	1534A	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm.	M2	475.15
821	1534B	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm, PVC coated to achieve outer dia. not less than 5 mm in required colour and shade.	M2	506.35
822	1535	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia. wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-Charge.	M2	569.90

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
823	1536A	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc complete. 10- 14 mm diameter	EA	65.00
824	1536B	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc complete. 15 – 18 mm diameter	EA	76.85
825	1526C	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc complete. 19 – 23 mm diameter	EA	88.70
826	1536D	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc complete. 24 – 28 mm diameter	EA	100.50

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
827	1538	Attending to leak at roof slab and wall joint. The scope of work includes clearing the tiled terrace surfaces to be free of dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with CERAFIL 45/ TEC TILE 12/ Sika Grout/NACC Tile Grout/Dr. Fixit Crack-X and providing primer and top coat of CERAFLEX/TEC WAVE 3000/Sika Raingard/NACC High Flex single component/Dr. Fixit New Coat highly flexible membrane coating including curing adequately .All as per manufacture's recommendation/ standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc. complete for In accessible areas One Primer and one top coat	EA	335.50
828	1539	Attending to leak at roof slab and wall joint. The scope of work includes clearing the tiled terrace surfaces to be free of dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with CERAFIL 45/ TEC TILE 12/ Sika Grout/NACC Tile Grout/Dr. Fixit Crack-X and providing primer and top coat of CERAFLEX/TEC WAVE 3000/Sika Raingard/NACC High Flex single component/Dr. Fixit New Coat highly flexible membrane coating including curing adequately .All as per manufacture's recommendation/ standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc. complete. for In accessible areas. One primer and two top coats	M2	518.30
829	1540	Providing two coats of CERALASTIC/TEC WAVE 2000/Sika raingard/NACC roof coating /Dr. FIXIT PIDIFIN 2K water proofing membrane coating followed by one bond coat of CERA BOND SBR/TEC BOND SBR/Sika latex/NACC Latex / Dr. FIXIT PIDICRETE URP SBR LATEX over the membrane coating and providing cement plastering 6mm thick in CM 1:4 admixed with general purpose water proofing compound of respective products and curing adequately. All as per manufacturer's recommendation / standard specifications and instructions of Engineer-in-charge. The scope of work includes dismantling the existing damaged weathering course and tiles to ex-pose to the RCC slab and finishing to match with the existing weathering course.. Rate quoted includes cost of all materials except cement which will be issued free of cost at BHEL stores, labour charges, conveyance, tools and all other incidental charges etc., complete. Replacing the damaged tiles and re-pointing where ever required which will be paid under separate item.- for- accessible area	M2	338.25

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
830	1541	Attending crack filling at parapet level with pressure grouting: The scope of work includes routing out the cracks with a mechanically operated groove cutter and sealing the groove with flexible sealant - CERA CRACK FILLER/TEC KRACK FILLER/Sika CRACK SEAL/NACC CRACK FILLER/Dr. FIXIT CRACK-X PASTE and allowing the sealant to set overnight, driving grouting nozzles at intervals of 1M and grouting neat cement slurry admixed with expansive grouting additive CERA EXPAN 250/TEC SWELL/Sika INTRA PLAST/NACC EXPAN/Dr. FIXIT PIDICRETE AM 250 and providing two coats of CERAFLEX/TEC WAVE 3000/Sika RAINGARD/NACC HIGH FLEX /Dr. FIXIT NEW COAT roof coating single component flexible membrane for a width of 15cms aligned to the centre of the crack. All as per manufacturers recommendations / standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc., complete, but excluding cost of cement which will be issued free of cost at BHEL stores	M2	151.25
831	1542	Attending Crack filling at parapet level without pressure grouting. The scope of work includes routing out the cracks with a mechanically operated groove cutter and sealing the groove with flexible sealant - CERA CRACK FILLER/TEC KRACK FILLER/Sika CRACK SEAL/NACC CRACK FILLER/Dr. FIXIT CRACK-X PASTE and providing two coats of CERAFLEX/TEC WAVE 3000/Sika RAIN GARD/NACC ROOF COATING/Dr. FIXIT NEW COAT highly flexible membrane for a width of 10cms aligned to the centre of the crack. All as per / manufacturers recommendations/ standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges ,etc. complete.	RM	112.75
832	1543	Drilling pockets and fixing PVC Nipples in position along weak concrete junctions and leakage points in walls/floor and pressure grouting CERA EXPAN 250 / TEC SWELL/Sika INTRA PLAST/NACC EXPAN / Dr. FIXIT PIDICRETE AM 250 expansive grouting additive admixed with cement slurry using hand operated grouting pump. The scope also includes plugging the grout hole with CERA PLUG/TEC STOP / Sika HYDRO PLUG / NACC PLUG / Dr. FIXIT INSTANT LEAK PLUG .All as per manufacturer's recommendations/ standard specifications and instructions of Engineer- in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges except cement which will be issued free of cost at BHEL stores.	POINT	145.75

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
833	1544	Providing one coat of Antifungal coating tec touch /Cera re-played/Sika Multi guard or Sika gard 67/NACC acrylic/Dr. FIXIT DAMPGAURD - protective and decorative coating system as per manufacturer's recommendations/ standard specifications and instructions of Engineer-in-charge. The scope of work includes surface preparation including cleaning the wall surfaces to be free of previous coatings, dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with putty. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc., complete.	M2	203.20
834	1545	Arresting leakage through RCC Construction joints The scope of work includes routing out the horizontal cracks along /construction joints to expose the RCC joint and applying CERA SEAL / TEC POLYSEAL G / Sika Crack Seal / NACC poly seal gun grade polysulphide sealant / Dr. FIXIT PU SEALANT. The scope also includes application of CERAFLEX / TEC WAVE 3000/Sika Rain Gard/NACC Roof Coating / Dr. FIXIT NEW COAT single component flexible membrane with intermediate layer of cloth over the exposed area after allowing the PS(polysulphide sealant) to cure for 72 hours. All as per manufacturers recommendations / standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc., complete.	M2	499.10
835	1546	Arresting leakage through Masonry construction joints. The scope of work includes routing out the vertical cracks along construction joints and providing a bond coat of CERA BOND SBR / TEC BOND SBR /Sika Latex Power/NACC latex/ Dr. FIXIT PIDICRETE URP SBR LATEX followed by filling the cracks with repair mortar admixed with CERA EXPAN 250 / TEC SWELL/Sika Intra Plast/NACC Expan/Dr. FIXIT PIDICRETE AM 250. The scope also includes placing of grouting nipples on the neatly finished surface at adequate spacing and grouting cement slurry admixed with CERA EXPAN 250 / TEC SWELL/Sika Intra Plast/NACC Expand/Dr. FIXIT PIDICRETE AM 250 using hand operated grouting pump. The treated surface shall then be finished with two coats of CERAFLEX / TEC WAVE 3000 / Sika Rain gard/NACC Roof Coating/ Dr. FIXIT NEW COAT . All as per manufacturers recommendations / standard specifications and instructions of Engineer-in- charge. Rate quoted includes cost of all materials , labour charges, conveyance, tools and other incidental charges etc. complete but excluding cost of cement which will be is-sued free of cost at BHEL stores.	RM	262.20

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
836	1547	Providing aluminum Sheet Flashing. The scope of work includes cutting a neat groove along the brick wall and fixing Aluminum sheet flashing of 1' to 1'6" as required including re-filling the grooves and sealing the joints with CERA SEAL / TEC POLYSEAL G /Sika Polysulphide/NACC poly seal gun grade polysulphide sealant/Dr. FIXIT PU SAEALANT. All as per Manufacturer's recommendations / standard specifications and instructions of Engineer-in-Charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and other incidental charges etc., complete	RM	479.80
837	DATA 837	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 18/20 mm OD	RM	44.75
838	DATA 838	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 25 mm OD	RM	54.00
839	DATA 839	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 32 mm OD	RM	54.65
840	DATA 840	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 40 mm OD	RM	76.90
841	DATA 841	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 50 mm OD	RM	92.40
842	DATA 842	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 18/20 mm OD	RM	7.25

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
843	DATA 843	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 25 mm OD	RM	9.25
844	DATA 844	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 32 mm OD	RM	9.50
845	DATA 845	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 40 mm OD	RM	13.20
846	DATA 846	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 50 mm OD	RM	15.25
847	DATA 847	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 63 mm OD	RM	20.05
848	DATA 848	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 75 mm OD	RM	27.45
849	DATA 849	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 90 mm OD	RM	33.90

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
850	DATA 850	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 110 mm OD	RM	37.55
851	DATA 851	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 140 mm OD	RM	40.35
852	DATA 852	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 160 mm OD	RM	50.15
853	DATA 853	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 180 mm OD	RM	56.45
854	DATA 854	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 200 mm OD	RM	62.15
855	DATA 855	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 15 to 25 mm nominal bore	EA	20.20
856	DATA 856	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 32 mm nominal bore	EA	22.85
857	DATA 857	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 40 mm nominal bore	EA	25.30
858	DATA 858	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 50 mm nominal bore	EA	27.70
859	DATA 859	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 65 mm nominal bore	EA	31.50

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
860	DATA 860	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 80 mm nominal bore	EA	35.25
861	DATA 861	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 100 mm nominal bore	EA	22.00
862	DATA 862	Labour charges for fixing in position C.P brass bib cock / stop cock (Medium Duty) - 15 mm Nominal Bore	EA	15.05
863	DATA 863	Labour charges for fixing in position C.P brass bib cock / stop cock (Medium Duty) - 20 mm Nominal Bore	EA	17.75
864	DATA 864	Labour charges for fixing in position C.P brass bib cock / stop cock (Medium Duty) - 25 mm Nominal Bore	EA	12.10
865	DATA 865	Labour charges for providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead, Spun yarn, fire wood etc., which will be supplied by BHEL at free of cost. 80/100 mm dia pipe.	EA	136.90
866	DATA 866	Labour charges for providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead, Spun yarn, fire wood etc., which will be supplied by BHEL at free of cost. 125 / 150 mm dia pipe	EA	204.85
867	DATA 867	Labour charges for providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead, Spun yarn, fire wood etc., which will be supplied by BHEL at free of cost 200 / 250 mm dia pipe.	EA	308.70
868	DATA 868	Labour charges for providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead, Spun yarn, fire wood etc., which will be supplied by BHEL at free of cost 300 / 350 mm dia pipe.	EA	412.20
869	DATA 869	Labour charges for providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead, Spun yarn, fire wood etc., which will be supplied by BHEL at free of cost 400 / 450 mm dia pipe.	EA	583.00
870	DATA 870	Labour charges for providing flanged joints to double flanged C.I pipes and specials including testing of joints. Materials such as 3 mm thick rubber insertions, suitable bolts and nuts etc. will be supplied by BHEL at free of cost . 100 / 125 mm dia pipe.	EA	47.85
871	DATA 871	Labour charges for providing flanged joints to double flanged C.I pipes and specials including testing of joints. Materials such as 3 mm thick rubber insertions, suitable bolts and nuts etc. will be supplied by BHEL at free of cost . 150 / 200 mm dia pipe.	EA	54.60

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Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
872	DATA 872	Labour charges for providing flanged joints to double flanged C.I pipes and specials including testing of joints. Materials such as 3 mm thick rubber insertions, suitable bolts and nuts etc. will be supplied by BHEL at free of cost . 250 / 300 mm dia pipe.	EA	68.25
873	DATA 873	Labour charges for providing flanged joints to double flanged C.I pipes and specials including testing of joints. Materials such as 3 mm thick rubber insertions, suitable bolts and nuts etc. will be supplied by BHEL at free of cost . . 350 / 400 mm dia pipe.	EA	82.00
874	DATA 874	Labour charges for providing flanged joints to double flanged C.I pipes and specials including testing of joints. Materials such as 3 mm thick rubber insertions, suitable bolts and nuts etc. will be supplied by BHEL at free of cost . . 450 / 500 mm dia pipe.	EA	99.75
875	SUPP. S02 (i)	Providing/drilling vertical pockets in the existing RCC machine foundation using core cutting machines in proper manner as per standard specification and instruction of engineer-in-charge. Work includes conveying, disposing the debris in the nearby low lying area within 1 km lead. The quoted rate shall include cost of hire & running charges for required tools& plants, labour charges, consumables and all other incidentals etc. complete. Required electrical power & water alone will be given at one point at free of cost by BHEL. 100 mm Dia. & Depth up to 600 mm	NOS	9,000.00
876	SUPP. S02 (ii)	Providing/drilling vertical pockets in the existing RCC machine foundation using core cutting machines in proper manner as per standard specification and instruction of engineer-in-charge. Work includes conveying, disposing the debris in the nearby low lying area within 1 km lead. The quoted rate shall include cost of hire & running charges for required tools& plants, labour charges, consumables and all other incidentals etc. complete. Required electrical power & water alone will be given at one point at free of cost by BHEL. 100 mm Dia. & Depth above 600 mm up to 900 mm	NOS	1,500.00
877	SUPP. S02 (iii)	Providing/drilling vertical pockets in the existing RCC machine foundation using core cutting machines in proper manner as per standard specification and instruction of engineer-in-charge. Work includes conveying, disposing the debris in the nearby low lying area within 1 km lead. The quoted rate shall include cost of hire & running charges for required tools& plants, labour charges, consumables and all other incidentals etc. complete. Required electrical power & water alone will be given at one point at free of cost by BHEL. 100 mm Dia. & Depth above 900 mm up to 1200 m	NOS	2,200.00

Sl. No.	SR Item No.	DESCRIPTION	Units	Rate (Rs. P.)
878	SUPP. S02 (iv)	Providing/drilling vertical pockets in the existing RCC machine foundation using core cutting machines in proper manner as per standard specification and instruction of engineer-in-charge. Work includes conveying, disposing the debris in the nearby low lying area within 1 km lead. The quoted rate shall include cost of hire & running charges for required tools& plants, labour charges, consumables and all other incidentals etc. complete. Required electrical power & water alone will be given at one point at free of cost by BHEL. 125 mm Dia. & Depth above 900 mm up to 1200 m	NOS	3,600.00
879	SUPP. S02 (v)	Providing/drilling vertical pockets in the existing RCC machine foundation using core cutting machines in proper manner as per standard specification and instruction of engineer-in-charge. Work includes conveying, disposing the debris in the nearby low lying area within 1 km lead. The quoted rate shall include cost of hire & running charges for required tools& plants, labour charges, consumables and all other incidentals etc. complete. Required electrical power & water alone will be given at one point at free of cost by BHEL. 125 mm Dia. & Depth above 1200 mm up to 1500 mm	NOS	4,700.00

Mentioned rates excludes GST %.