

U.P. RAJYA NIRMAN SAHKARI SANGH LTD.
(Rajkiya Nirman Agency)



(Registered Office-G-4/5 B, Sector-4, Gomtinagar Vistar, Lucknow)

Prakhand Office :-U.P.R.N.S.S. Division-MAU.

Prakhand E-Mail ID-azamgarhprakhand2@gmail.com

Notice Inviting E-Tender

(For Works upto Rs. 5.00 Cr sanctioned cost)

Tender Notice No.: 147 /UPRNSS /E-TENDER/2026-27

Dated : 11-05-2026

UPRNSS invites in 2 bids system online tenders on percentage rate bids from eligible and registered contractors of U.P. Rajya Nirman Sahkari Sangh Ltd. in appropriate class as given below. Bidders are advised to note the minimum criteria of eligibility.

S.N	Name of Work	Estimated Cost (Rs. In lacs)	Earnest Money (In Rs)	Cost of Bid Document (in Rs.)	Time of Completion (in months)	Class of Registration	Address of sale of tenders	Place of submission of tender
1	2	3	4	5	6	7	8	9
1	CONSTRUCTION OF REPAIR/RENOVATION WORK OF GOVT. I.T.I AT MUHAMMADABAD GOHNA DISTT- MAU	219.80	440000.00	8850.00 (7500.00) + (SGST 9% + CGST 9%)	18 Months 12 12	A & Above Class	To be downloaded from the e-tender portal of nic "etender. up.nic.in	To be uploaded on e-tender portal of nic.in

1- Criteria of Eligibility

The contractors who fulfil the following requirements shall be eligible to apply. Joint Ventures are not accepted.

- Should have successfully completed similar works during the last seven years ending previous day of last day of submission of bids, as a prime contractor satisfying either of the following.
- Three similar completed works each costing not less than 40% of Tendered cost.
Or
- Two similar completed works each costing not less than 60% of Tendered cost.
Or
- One similar completed work costing not less than 80% of Tendered cost.

Note:-One Completed work of similar nature (either part of (1) or a separate one) stands for work of similar nature completed costing not less than the amount equal to mentioned above of the tender cost with some Central Government Department / State Government Department / Central & state Autonomous Body /Central & State Public Sector undertaking.

- Should have an average annual financial turnover(Gross) of 30% of tendered cost on construction work of similar nature during last three consecutive financial years, (copy of Balance sheets duly certified and audited by Chartered Accountant along with Income tax Returns to be submitted).Year in which no turnover is shown would also be considered for working out the average.

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- f) Should not have incurred any loss (Profit after tax should be positive) in more than two years during the last five years(copy of Balance sheets duly certified and audited by Chartered Accountant to be submitted).
- g) Bidder should produce solvency certificate of amount not less than 40% of tendered cost from any SBI/Nationalized bank/Scheduled Commercial Bank not more than six months old on last date of submission of bids or solvency duly issued from District Magistrate.
- h) Information regarding projects in hand, current litigation, orders regarding exclusion, expulsion or black listing, if any should be indicated.
- i) Bidder should possess a valid character certificate duly issued by District Magistrate on the date of bid submission(copy of certificate to be uploaded)
- 2- Information and instructions for bidder posted on website shall form part of tender document.
- 3- A set of Bidding documents may be downloaded from the e-tender portal of NIC as mentioned in tender documents between dates as mentioned in tender documents.
- 4- Bid must be uploaded on e-tender portal of NIC on / before date mentioned in the tender documents.
- 5- Contractors must upload documents in the form of PDF format or as per instructions given on portal.
- 6- Bids must be accompanied with earnest money of the amount specified for the work. The Earnest Money may be deposited of a SBI/Nationalized bank/Scheduled Commercial Bank/U.P. Cooperative Bank either in the form of Demand Draft (**Payable at MAU**)

Or

FDR in favour of Executive Engineer. U.P. Rajya Nirman Sahkari Sangh Ltd. Division- Mau.

Or

- In the shape of Bank Guarantee of a SBI/Nationalized bank/Scheduled Commercial Bank/U.P. Cooperative Bank having validity for at least 6(six) months more from the last date of receipt of bids.
- 7- The bids shall remain valid for acceptance for a period of 90 (ninety) days from the last date of submission of bids.
- 8- The intending bidder must have valid class-II/III digital signature to submit the tender.
- 9- The technical bids shall be opened on the date and venue as mentioned in tender document in the office of Superintending Engineer U.P. Rajya Nirman Sahkari Sangh Ltd. Lucknow, and the name of qualified bidders shall be uploaded on portal. The date of opening of the financial bids shall be uploaded and displayed on e-tender portal.
- 10- Financial bids shall be opened of those bidders whose bids are technically qualified and tender bid cost with E.M.D. properly uploaded and found eligible.
- 11- Contractor must ensure to quote Percentage above or below tendered cost put to bid in case of percentage rate bid and rate in case of item rate bid. However if a tender quotes nil rates against any item in item rate tender or does not quote any percentage above /below under total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tender.
- 12- No Engineer of gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the state/ Central Government is allowed to work as a contractor for a period of two years after his retirement from government service, without Government permission. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government as aforesaid before submission of the tender or engagement in the contractor's service.

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- 13- Pre-bid meeting if any, shall be held on the date mention in tender document to clear doubts of intending bidders, if any. Bidders should send their queries by e-mail before pre bid meeting, latest by previous day of pre bid meeting to the concern Executive Engineers of UPRNSS MAU. As a result of pre bid meeting, certain modifications may be required. Addendum/Corrigendum shall be uploaded by the Engineer- In-charge, if felt necessary, which shall form part of tender document.
- 14- Any bidder who is having criminal record is not allowed to participate in the bidding process.
- 15- Any bidder who is registered with the state Bar council is not allowed to participate in the bidding process.
- 16- The UPRNSS reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criteria.
- 17- Bidding Document's general conditions of contract can be seen in the office of Executive Engineer UPRNSS Galibpur Bhati, Mau on any working day between 11AM to 4PM .
- 18- The successful bidder will have to submit 5% performance guarantee for rates quoted up to 10% below & an additional 1% per percent beyond 10% below rates of the tendered cost in the form of Demand Draft (Payable at Mau)
- Or
- FDR pledged in favour of Executive Engineer. U.P. Rajya Nirman Sahkari Sangh Ltd. Division-Mau.
- Or
- In the shape of Bank Guarantee of any SBI/Nationalized bank/Scheduled Commercial Bank/U.P. Cooperative Bank having validity for at least 6 (six) months more from the last date of stipulated date of completion of work as mentioned in tender documents.
- 19- The bidder will have to deposit cost of Bid Documents as mentioned in above table through RTGS/NEFT. Detail of RTGS/NEFT is given as under:
- Name of Beneficiary: Uttar Pradesh Rajya Nirman Sahkari Sangh Ltd.**
Name of Bank: HDFC BANK
Name of Branch of Bank: JYOTI TOWER SAHADATPURA, MAU
Account No- 1910145000014
IFSC Code:- HDFC0001910
- Amount- (as mentioned in above table)
- Note-Payment receipt with details of UTR number is to be scanned and uploaded as pre-qualification document. The payment is non-refundable.
- 20- Tender of complete bill of quantity of project is uploaded. If client releases full sanctioned amount of project in time on current schedule of rates, the bidder has to complete the work on sanctioned rates. But if a part of sanctioned cost is released by client after revision of PWD SOR(Schedule of Rates) and in the same time revised estimate is also sanctioned by the client then corresponding to revised sanctioned rates, the rates of the corresponding part of tender shall be revised with other conditions of primary tender remains unchanged. If even after the revision of PWD SOR(Schedule of Rates) client does not sanction revised estimate, then bidder is bound to complete the full work on tender rates.
- 21- After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- 22- While submitting the revised bid, contractor can revise the rate of one or more items any number of times(bidder need not re-enter rate of all items) but before last time and date of submission of bid as notified.
- 23- Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids uploaded by the contractors who resort to canvassing will be liable to rejection.

- 24- The contractor shall not be permitted to tender for works in the Prakhand MAU. UPRNSS Ltd, which are responsible for award and execution of contracts in which his near relative is posted as Prakhand Accountant or as an officer/engineer in any capacity. Bidder shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer/engineer in the UPRNSS Ltd. Any breach of this condition by the contractor would render him liable to be debarred from tendering in UPRNSS Ltd.
Note-By the term near relatives is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.
- 25- In case of any discrepancy between downloaded bid documents and that available with concerned Prakhand, the bid document available with Prakhand would be considered authentic.
- 26- Taxes/any cess shall be deducted from contractor's bill as per rules.
- 27- In case of any difference on any point between general conditions of contract and NIT(Notice Inviting Tender), the NIT will prevail.

28- **List of documents to be scanned and uploaded with bid submission:**

1	Scanned copy of Fixed Deposit Receipts/ Bank Guarantee of any SBI/ Nationalised bank/ Scheduled Commercial Bank/ U.P. Cooperative Bank against EMD as prescribed.
2	Letter of transmittal
3	Bid Fee deposition details i.e. "RTGS/NEFT payment proof"
4	Financial information – Form 'A'
5	Banker's certificate for solvency certificate from a SBI/ Nationalised bank/ Scheduled Commercial Bank/ U.P. Cooperative Bank on letter head of bank addressed to tendering authority– Form 'B'
6	Details of eligible similar nature works completed during the last Seven years ending previous day of last day of submission of Bid – Form 'C'.
7	Performance report of works referred to in forms "C"- Form "D".
8	Structure and Organization – Form 'E'
9	Affidavit as per provisions of Clause-1of NIT for e-Tendering on non-judicial stamp paper on requisite value- Form F
10	Copy of Character Certificate
11	Copies of Balance Sheet fully certified & Audited by Chartered Accountant
12	Copies of Income tax returns
13	Certificate of registration of GST and acknowledgement of up to date return filed.
14	Registration with EPFO, ESIC, BOCW Welfare Board, labour License if available
15	Certificates of Registration in UPRNSS
16	Scanned copy of PAN Card issued by Income Tax Department.
17	Power of Attorney as applicable

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Thingh
Superintendent Engineer
यूपी०आर०एन०एस०एस०
Gorakhpur Zone
गोरखपुर परिसर
गोरखपुर

TENDER DOCUMENT (Dates)

Name of Work: :

Estimated Cost : Rs.

Cost of Document : Rs.

Earnest Money : Rs.

Time of Completion :

Defects liability period :

Publishing start date of tender on NIC :

Bid submission start date :

Seek clarification start date :

Seek clarification end date :


Pre Bid meeting date :

Bid Submission end date :

(1)Pre-Qualification BID opening date :


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SCANNED COPY OF EMD


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LETTER OF TRANSMITTAL

From

.....

To

Prakhand Prabhari,
 U.P.R.N.S.S. Ltd

Subject: Submission of Bid for the work of "....."

Sir,

Having examined the details given in press notice and bid document for the above work, I/we hereby submit the relevant information.

1. I/we hereby certify that all the statement made and information supplied in the enclosed forms A to E and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we submit the requisite certified solvency certificate and authorise the Prakhand Prabhari, UPRNSS Ltd,Unit to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/we also authorise Prakhand Prabhari, UPRNSS Ltd,Unit to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I/we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following eligible similar works:


SN	Name of work	Amount	Certificate issued by
1			
2			
3			

Certificate:-

It is certified that the information(s) given in the enclosed Technical Bid are correct. It is also certified that I/We shall be liable to be debarred, disqualified/cancellation of enlistment in case any information furnished by me/us is found to be incorrect.

Enclosures:

Date of submission:


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Signature(s) of Bidder(s).
Seal of bidder

Payment of Tender Bid document Fee

NIT No.:

The required fee of tender i.e. Rs has been deposited in _____
Bank A/c No. _____ RTGS and the scanned copy of UTR
No. _____ (receipt along with Transaction Id
uploaded with E-tender documents).

BIDDER

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**FINANCIAL INFORMATION
(CERTIFICATE OF FINANCIAL TURNOVER FROM CHARTERED ACCOUNTANT)**

Name & Address of Bidder.....

.....

Financial Analysis – Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last five years duly certified and audited by the Chartered Accountant, as submitted by the bidder to the Income Tax Department (Copies to be attached).

S.No.	Description	Financial Years				
		20__-__	20__-__	20__-__	20__-__	20__-__
(i)	Gross Annual turnover on construction works.					
(ii)	Profit/Loss					


II. Financial arrangements for carrying out the proposed work.

.....

III. Solvency Certificate from Bankers of the bidder in the prescribed Form "B".

Signature of Bidder(s).
Seal of bidder

Signature of Chartered Accountant with Seal


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FORM "B"

FORM OF BANKERS' CERTIFICATE FROM A SBI/Nationalized bank/Scheduled Commercial
Bank/U.P. Cooperative Bank

NOTE:

- (1) Banker's certificates should be on letter head of the Bank, sealed in cover addressed to tendering authority.
- (2) Solvency certificate should not be more than 6 months old.


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**DETAILS OF ALL WORKS OF SIMILAR NATURE COMPLETED DURING THE
LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF TENDERS**

Name & Address of Bidder.....

S. No	Name of work/project and location	Owner of sponsoring organization	Cost of work in lakhs of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration cases pending /in progress with details*	Name and address /telephone number of officer to whom reference may be made
1	2	3	4	5	6	7	8	9

*Indicate gross amount claimed and amount awarded by the Arbitrator.


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Signature of Bidder(s)
Seal of bidder

ADDITIONAL INFORMATION

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "C"

1. Name of work/project & location- _____

2. (a) Agreement no.- _____
(b) Name of Agency / Contractor _____
3. Estimated cost _____
4. (a) Tendered cost _____
(b) Actual Value of work done _____
5. Date of start- _____
6. Date of completion- _____
- (i) Stipulated date of completion- _____
(ii) Actual date of completion- _____
7. (a) Whether case of levy of compensation
For delay has been decided or not Yes/No
(b) If decided, amount of compensation levied for
delayed completion, if any
8. Performance Report
(1) Quality of work Outstanding/Very Good/Good/Poor
(2) Financial soundness Outstanding/Very Good/Good/Poor
(3) Technical Proficiency Outstanding/Very Good/Good/Poor
(4) Resourcefulness Outstanding/Very Good/Good/Poor
(5) General Behaviour Outstanding/Very Good/Good/Poor

Dated:

**Executive Engineer /Prakhand Prabhari
Or Equivalent with Seal**

Note-The experience certificate to be uploaded in the above format, if issued after 16.03.2020. The certificate in other format may also be accepted if issued earlier but having clear information about date of start, date of completion & cost of work executed.

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FORM "E"

STRUCTURE OF ORGANISATION


1. Name & address of the bidder- _____
2. Telephone no. /Fax no/Email ID.- _____
3. Legal status of the bidder (attach copies of original document defining the legal status)
 - (a) An Individual _____
 - (b) A proprietary firm _____
 - (c) A firm in partnership _____
 - (d) A limited company or Corporation _____
4. Particulars of registration with various Government Bodies (attach attested photocopy)

Organisation/Place of registration

Registration No. _____

 1. _____
 2. _____
 3. _____
5. Names and titles of Directors and Officers with designation to be concerned with this work.
6. Designation of individuals authorised to act for the organization
7. Has the bidder, or any constituent partner in case of **Partnership firm / Limited Company / Joint Venture**, ever been convicted by the Court of Law? If so, give details.
8. Has the bidder, or any constituent partner in case of Partnership firm / Limited Company / Joint Venture, ever been debarred / blacklisted for tendering in any organisation? If so, give details.
9. In which field of Civil Engineering construction the bidder has specialization and interest?
10. Any other information considered necessary but not included above.

Signature of Bidder(s)
Seal of bidder



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AFFIDAVIT

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of UPRNSS Ltd, then I/We shall be debarred for bidding in UPRNSS Ltd in future, forever. Also, if such a violation comes to the notice of UPRNSS Ltd before the date of start of work, the Engineer-In-Charge shall be free to forfeit the entire amount of earnest money deposit and performance guarantee.

NOTE 1: Affidavit to be furnished on a Non Judicial stamp paper of requisite value and should be notarised.


Signed by Bidder / Authorised Person of the firm with
Stamp


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Copy of Character Certificate.

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Copies of Balance Sheet fully certified & Audited by Chartered Accountant


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Copies of Income tax returns

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Certificate of registration of GST and acknowledgement of up to date return filed.

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Registration with EPFO, ESIC, BOCW Welfare Board, labour License if available.


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Certificates of Registration in UPRNSS

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Scanned copy of PAN Card issued by Income Tax Department.

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Power of Attorney as applicable

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**DETAILED ESTIMATE FOR PROPOSED REPAIR / RENOVATION WORK OF
GOVT. I.T.I. AT - MUHAMMADABAD GOHANA -DISTT. MAU (U.P.)**

[SUMMARY OF COST]


S. NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	COST OF MAIN BUILDING				
a	COST OF REPAIR / RENOVATION WORK		(As / Details Attached)		6363647.52
b	COST OF INTERNAL W/S & SANITARY WORK		(As / Details Attached)		343889.79
c	COST OF ELECTRICAL WORK		(As / Details Attached)		514553.67
2	COST OF TYPE -I RESIDENCE				
a	COST OF REPAIR / RENOVATION WORK		(As / Details Attached)		904053.11
b	COST OF INTERNAL W/S & SANITARY WORK		(As / Details Attached)		269440.85
c	COST OF ELECTRICAL WORK		(As / Details Attached)		244251.98
3	COST OF TYPE -II RESIDENCE				
a	COST OF REPAIR / RENOVATION WORK		(As / Details Attached)		1895862.78
b	COST OF INTERNAL W/S & SANITARY WORK		(As / Details Attached)		251453.33
c	COST OF ELECTRICAL WORK		(As / Details Attached)		423176.90
4	COST OF TYPE -III RESIDENCE				
a	COST OF REPAIR / RENOVATION WORK		(As / Details Attached)		490603.66
b	COST OF INTERNAL W/S & SANITARY WORK		(As / Details Attached)		155997.10
c	COST OF ELECTRICAL WORK		(As / Details Attached)		121520.23
5	COST OF TYPE -IV RESIDENCE				
a	COST OF REPAIR / RENOVATION WORK		(As / Details Attached)		845122.71
b	COST OF INTERNAL W/S & SANITARY WORK		(As / Details Attached)		169100.95
c	COST OF ELECTRICAL WORK		(As / Details Attached)		237680.32
6	COST OF REPAIR WORK OF BOUNDARY WALL	304.58	RM	1538.21	468512.11
7	COST OF PROPOSED NEW B. WALL	368.46	RM	16309.59	6009349.98
8	COST OF C.C. ROAD	777.60	SQM	2024.73	1574434.16
9	COST OF STORM WATER DRAIN	420.50	RM	2084.00	876311.58
10	COST OF GATE	1.00	NOS	178580.11	178580.11
11	COST OF EXTERNAL ELECTRICAL WORK			(As / Details Attached)	700623.12
12	DEVLOPMENT OF LAWN			(As / Details Attached)	99727.10
				TOTAL	23137893.06
					1156894.65
	LESS 5 % DUE TO WORK DONE BY DEPARTMENT			G. TOTAL	21980998.41



अवर अभियन्ता
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निर्माण प्रखण्ड, मऊ।


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ABSTRACT OF COST FOR REPAIR / RENOVATION WORK**[MAIN BUILDING]****(Based on D.S.R. 2023 WITH MULTIPLY BY 0.757*106/107)**

S.N.	DESCRIPTION OF ITEM	SCH. NO.	QUANTITY	UNIT	RATES		AMOUNT
					DSR 2023	DSR*0.757 *106/107	
1	Dismantling cement concrete or granolithic floors including base concrete and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters (200feet)	15.23.2	1883.44	SQM	113.35	85.00	160099.98
2	Providing & laying 25 mm thick Kota stone flooring over 20 mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)	11.26.1	511.95	SQM	1948.25	1461.04	747980.37
3	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	11.27	130.66	SQM	2354.70	1765.85	230725.82
4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement :4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. (Size of Tile 600x600 mm)	11.41.2	1269.31	SQM	1553.45	1164.97	1478709.79
5	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	11.46.2	70.51	SQM	1623.05	1217.17	85822.39
6	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 except burgundy, bottle green, black of any size 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 @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.31	320.87	SQM	1267.95	950.87	305104.92


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	Dismantling doors & windows including chaukhats with hold fast and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters (200feet)	15.12.2	N.R.	NOS	502.75	377.02	N.R.
8	Providing & fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood & well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick						
	(a) Single Leaf	9.21.1	22.05	SQM	2392.65	1794.31	39584.50
	(b) Double leaf	9.21.1+9.26	32.76	SQM	2499.35	1874.33	61402.91
9	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS. 2202 (Part I)	9.22	119.70	SQM	478.00	358.46	42908.17
10	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods, gratings etc. (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work fabrication of holes doors, chaukhats nosing						
(a)	Providing & fixing of hold fast for chaukhats of doors and windows.	10.25.2	0.00	KG	172.60	129.44	0.00
(b)	Providing & fixing of door / windows grill.	10.25.2	171.72	KG	172.60	129.44	22226.94
(c)	Z-Section steel windows	10.25.2	209.88	KG	172.60	129.44	27166.26
11	Fixing of panes of glass with Atul or equivalent I.S.I. marked quality putty. Brads & springs complete including cost of material, labour etc. (b) 4.0 mm thick	10.30.1	78.80	SQM	1064.65	798.41	62914.54
12	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately.						
		22.6	1284.15	SQM	688.90	516.62	663422.06
13	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : (a) 250mm x 16mm .	9.96.2	30.00	NOS	260.60	195.43	5862.92

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14	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :						
	(a) 250 mm x 10mm	9.97.2	30.00	NOS	115.15	86.35	2590.62
	(a) 200 mm x 10mm	9.97.3	30.00	NOS	99.70	74.77	2243.03
15	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	9.100.1	60.00	NOS	66.25	49.68	2980.95
16	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	14.34	30.00	NOS	271.45	203.57	6107.02
17	Providing and fixing anodised aluminium doors, having 2 mm thick Aluminium section excluding coating & an average coating of 20 micron fully glazed made of Aluminium door tube size 83.5x44.65 mm as Vertical member and 11.40x44.45mm size tube in bottom & horizontal members Door chaukhat should be of Aluminium tubler vertical with two openable shutter. The rate will include cost of material fixture 5mm glass handles, locks, screw necessary bedding & excluding cost of floor spring if required for proper completion of work as per direction of Engineer-in-charge.	21.1.2.1	25.00	KG	598.60	448.91	11222.63
18	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	21.17	22.73	KG	638.35	478.71	10881.19
19	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	14.75	467.86	SQM	670.95	503.16	235409.53
20	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	13.91	7095.26	SQM	25.15	18.86	133821.00
21	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.80	7563.12	SQM	156.05	117.03	885080.42

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22	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	2231.52	SQM	171.10	128.31	286331.26
23	Distemping (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger, J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials.	13.41.1	5331.60	SQM	185.65	139.22	742284.65
24	Painting or varnishing on iron work in small areas or new wood work with one coat of ready mixed priming paint & one coat of approved superior quality ready mixed paint of clear synthetic varnish including supply of all materials, labour and T & P etc. required for proper completion of work. Paint to be used should confirm to the I.S.I. No. 103 1950	13.62.1	565.04	SQM	226.25	169.67	95870.67
25	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	15.60	75.34	CUM	263.95	197.94	14913.01
						TOTAL	6363647.52

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[ACADEMIC BUILDING]

[Internal Plumbing Work]


Sr. No.	DSR 2023 Code/ NSR	Description	Unit	Qty	DSR 2023 Rate (In Rs.)	DSR (without GST Rate)	DSR Amount (In Rs.)	NSR (In Rs.)	NSR Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS									
1	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P V C flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	4	6767.40	5075.04	20300.18		
2	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P V C flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :							
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	2	6,515.55	4886.18	9772.35		
3	17.34	Providing & fixing toilet paper holder							
	17.34.1	C.P. brass	Each	2	803.70	602.71	1205.43		
4	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	Each	2	349.15	261.84	523.67		
5	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:							
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	6	2226.35	1669.60	10017.58		
6	17.28	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete.							
	17.28.2.1	32 mm dia (for wash basin)	Each	6	119.55	89.65	537.92		
7	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 qms	Each	6	231.95	173.95	1043.67		
8	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 qms	Each	6	111.45	83.58	501.48		
9	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 (including angle valve for WC flushing cistern, jet & kitchen sink)							
	18.53.1	15 mm nominal bore	Each	2	574.30	430.68	861.36		
10	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions							
	18.21.2	45 cm length							
	18.21.2.1	15 mm nominal bore	Each	8	97.75	73.31	586.44		
11	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	6	1607.95	1205.84	7235.05		
12	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS 8931 :							
	18.49.1	15mm nominal bore	Each	4	506.80	380.06	1520.25		
13	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.							
	18.51.1	15mm nominal bore	Each	4	798.95	599.15	2396.61		
2.0	SUB HEAD-II-WATER SUPPLY								
1	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.							
		Concealed work, including cutting chases and making good the walls etc.							
		For Internal Toilet							
	18.8.1	15 mm nominal outer dia Pipes	Metre	75	497.80	373.31	27998.46		
	18.8.2	20 mm nominal outer dia Pipes	Metre	50	537.60	403.16	20157.99		
	18.8.3	25 mm nominal outer dia Pipes	Metre	30	627.25	470.39	14111.72		

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18.7		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.							
		Internal work - Exposed on wall							
18.7.2		20 mm nominal bore	Metre	25	307.00	230.23	5755.68		
18.7.3		25 mm nominal bore	Metre	20	401.55	301.13	6022.65		
3	18.10	Providing and fixing GI pipes complete with GI fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on Wall							
		Terrace loop & Tank Filling Pipe							
18.10.3		25 mm nominal bore	Metre	30	551.70	413.73	12412.01		
4	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.							
			per litre	2000	11.00	8.25	16498.36		
5	PCR	Providing, checking, storing, fixing in position of approved quality Screwed ends Brass float valve with brass ball float and PTFE seal suitable for Body test pressure of 15Kg/sqcm of the following sizes							
		20mm	Each	1			1465.00	1465.00	
		25mm	Each	1			2280.00	2280.00	
6	18.38	Painting GI pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work.							
18.38.3		25mm diameter pipe	Metre	25	30.25	22.69	567.13		
7	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete							
18.13.1		25 to 40 mm nominal bore	Each	2	911.90	683.86	1367.71		
8	18.16	Providing and fixing brass stop cock of approved quality :							
		For Internal Toilet							
18.16.2		20 mm nominal bore	Each	5	379.20	284.37	1421.86		
9	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :							
		For vertical pipe connection with terrace ringmain							
18.17.1A		20 mm nominal bore	Each	2	539.95	404.92	809.84		
18.17.1		25mm nominal bore	Each	2	622.40	466.75	933.51		
		SUB HEAD : III - ROOFING							
1	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.							
12.41.2		110 mm dia (for rain water)	Metre	70	377.40	283.02	19811.52		
2	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.							
12.42.2		Single Push Fit Coupler	Each	14	127.60	95.69	1339.67		
12.42.2.2		110 mm dia							
12.42.3		Single tee with door	Each	14	234.15	175.59	2458.33		
12.42.3.2		110x110x110 mm							
12.42.5		Plain bend 87.5 deg	Each	28	150.35	112.75	3157.04		
12.42.5.2		110 mm dia							
3	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.							
12.43.2		110 mm dia	Each	28	371.30	278.45	7796.52		
4	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	14	298.25	223.67	3131.31		
		SUB HEAD : IV - INTERNAL DRAINAGE							
1	PCR	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including push fit jointing with seal ring. (i) Single socketed pipes.							
		Internal Toilet (Soil & Waste Pipe)							
1.1	PCR	75 mm	Metre	20			560.00	11200.00	
1.2	PCR	110 mm	Metre	30			805.00	24150.00	
		Exposed on Wall (Soil & Waste Pipe)							
1.3	PCR	110 mm	Metre	25			805.00	20125.00	


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	PCR	Providing and fixing on wall face unplasticised . PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion							
2.1	PCR	Bend without door (87.5°)							
	PCR	110mm bend	Each	10				300.00	3000.00
2.2	PCR	Bend without door (45°)							
		100mm	Each	10				250.00	2500.00
		75mm	Each	10				150.00	1500.00
2.3	PCR	Y Fitting without door							
		100mm	Each	5				480.00	2400.00
		75mm	Each	10				265.00	2650.00
2.4	PCR	Single Tee without door							
		75 mm	Each	10				255.00	2550.00
2.5	PCR	Single Tee with door							
		110mm	Each	10				490.00	4900.00
		75 mm	Each	10				290.00	2900.00
2.6	PCR	Reduced Tee with door							
		110mm x 75mm	Each	20				430.00	8600.00
2.7	PCR	Coupler							
		110mm	Each	20				250.00	5000.00
2.8	PCR	Vent Cowl							
		110mm	Each	4				100.00	400.00
3	PCR	Providing fixing jointing and testing , of PVC Nahani Trap without Jali of minimum 50 mm water seal making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer in Charge							
	PCR	110mm x 75mm (Toilet)	Each	6				1060.00	6360.00
	PCR	110mm x 75mm (Kitchen)	Each	0				1060.00	0.00
4	18.58	Providing and fixing P1M1 grating of approved quality and colour.							
	18.58.2	Rectangular type with openable circular lid							
	18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	Each	6	196.95	147.70	886.19		
7	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :							
	19.4.2	150 x 100mm size P-type							
	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	2734.20	2050.45	4100.89		
8	19.1	Providing laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete							
	19.1.1	100 mm diameter	Metre	30	443.60	332.67	9980.01		
9	2.10	Excavating trenches of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m							
	2.10.1	All kind of soil							
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300mm dia	Metre	25	352.15	264.09	6602.15		
10	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design							
	19.2.1	100mm dia SW pipe	Metre	25	964.75	723.49	18087.26		
		TOTAL					Rs.	241909.79	101980.00
		G. TOTAL						343889.79	

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BILL OF QUANTITY							
INTERNAL ELECTRIFICATION WORK FOR MAIN BUILDING							
Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022 (DSR Rate = Rate*.789*(106/110))			
				Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	A.		DSR Items				
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.10.3		Group C	Point	70	1115.37	78076.14
							0.00
2	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				0.00
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	300	209.09	62725.50
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	200	253.94	50788.65
3	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				0.00
	1.24.1		5/6 A switch	Each	16	78.31	1252.99
	1.24.4		3 pin 5/6 A socket outlet	Each	16	92.76	1484.12
							0.00
4	1.25	DSR	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	35	280.55	9819.39
							0.00
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	70	30.41	2128.87
							0.00
6	1.27	DSR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				0.00
	1.27.1		1 or 2 Module (75mmX75mm)	Each	35	226.57	7930.02
							0.00
7	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	35	362.67	12693.36
8	1.50	DSR	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
	1.50.1		Upto 450 mm sweep	Each	2	342.14	684.28
							0.00
9	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				0.00
	2.4.1		4 way (4 + 12), Double door	Each	1	3110.42	3110.42
							0.00

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10	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required)				0.00
	2.5.1		4 way (4 + 12), Double door	Each	1	5711.44	5711.44
							0.00
11	2.10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				0.00
	2.10.1		Single pole	Each	12	194.64	2335.67
							0.00
12	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	16	9.88	158.14
							0.00
13	2.2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	2.2.13		100 A,30KA,FPMCCB	Each	1	5871.87	5871.87
14	PCR	PCR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. CAT A	Each	1	1780.00	1780.00
15	PCR	PCR	Supply and fixing of 40 Amp. FP MCB (10 KA) C Curve. CAT A	Each	1	2275.00	2275.00
							0.00
16	2.15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				0.00
	2.15.1		40 A	Each	2	2423.87	4847.73
							0.00
17	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	5681.03	11362.06
18	5.9	DSR	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	50	109.48	5474.23
19	5.12	DSR	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	30	218.21	6546.26

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20	19.1	DSR	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	35	2075.64	72647.53
21	PCR	PCR	Supply and fixing of Single light Wall Bracket on matching M.D.F.E.G. Board base etc.Complete in all respect. CAT. - AAA	Each	10	1650.00	16500.00
22	PCR	PCR	Supply and fixing of LED Tube Light fitting suitable for up to 1X22 Watt LED Tube Light on surface complete in all Respect .	Each	10	1200.00	12000.00
23	PCR	PCR	Supply & fixing of recess mounting round 15 to 18 watt LED down Lighter complete in all respect.	Each	15	1800.00	27000.00
			Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreise Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release) Switches Complete and instrument chamber etc.complete in all respects.				
			The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase voltage and single phase voltage, current and other parameters (KVA,P.F,KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic aluminium busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non gyroscopic supports such as CMC/BMC support with deteachable side covers and shall be suitable for extension on the sides.				
			The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grouting of the board as per directions of Engineer-in charge. All out goings of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm.Cubicletype switchboard shall be of cat A & B Only. CAT. B Cubicle Type				
24	PCR	PCR	Incoming - One (1) No 315Amp. TPN 1No.	Each	1	100000.00	100000.00
			Outgoing - 100 Amp TPN -2No., 63 Amp TPN -2No.				
							0.00


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25	PCR	PCR	S/F of hexagonal fan box with hexagonal side of approx 80mm in length fabricated from 16SWG.M.S. sheet incorporating 10mm dia, M.S. round barduly bent for supporting fan hanger dully painted with red oxide and screwing arrangement with wiring conduit laid in the R.C.C. roof before concreting along with supply of all materials, labour T & P etc., for proper completion of work.	Each	35	150.00	5250.00
							0.00
26	PCR	PCR	Supply & fixing of 225/300mm sweep ventilating (Light Duty) exhaust fan complete with Metallic Blade (Steel bird guard protector /Copper motor for high air suction performance /Capacitor etc.), Noise level : (45 - 50) dB, Power consumption : 45 W, Rated voltage : 230 V, Rated frequency : 50 Hz, Motor type : Normal Speed. Complete in all respect.	Each	2	2050.00	4100.00
							0.00
			Total				514553.67
				Say	Rs.	5.15	Lacs


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ABSTRACT OF COST FOR REPAIR / RENOVATION WORK

[TYPE -I RESIDENCE]


(Based on D.S.R. 2023 WITH)


S.N.	DESCRIPTION OF ITEM	SCH. NO.	QUANTITY	UNIT	RATES		AMOUNT
					DSR 2023	DSR*0.757 *106 /107	
1	Dismantling cement concrete or granolithic floors including base concrete and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters. (200feet)	15.23.2	212.15	SQM	113.35	85.00	18033.60
2	Providing & laying 25 mm thick Kota stone flooring over 20 mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)	11.26.1	7.86	SQM	1948.25	1461.04	11483.79
3	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	11.27	8.28	SQM	2354.70	1765.85	14621.23
4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement :4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. (Size of Tile 600x600 mm)	11.41.2	100.10	SQM	1553.45	1164.97	116613.63
5	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	11.46.2	14.78	SQM	1623.05	1217.17	17989.72
6	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 except burgundy, bottle green, black of any size 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 @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.31	35.56	SQM	1267.95	950.87	33812.86


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7	Providing & fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood & well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick						
	(a) Single Leaf	9.21.1	44.10	SQM	2392.65	1794.31	79129.01
8	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)	9.22	95.76	SQM	478.00	358.46	34326.54
9	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods, gratings etc. (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work fabrication of holes doors, chaukhats nosing.						
	(a) Providing & fixing of hold fast for chaukhats of doors and windows.	10.25.2	0.00	KG	172.60	129.44	0.00
	(b) Providing & fixing of door / windows grill.	10.25.2	0.00	KG	172.60	129.44	0.00
	(c) Z-Section steel windows	10.25.2	0.00	KG	172.60	129.44	0.00
	(d) Angle iron door chaukhat 40*40*5	10.31	0.00	KG	130.50	97.87	0.00
10	Fixing of panes of glass with Atul or equivalent I.S.I. marked quality putty. Brads & springs complete including cost of material, labour etc. (b) 4.0 mm thick	10.30.1	20.45	SQM	1064.65	798.41	16327.44
11	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:						
	(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately).	22.6	84.40	SQM	688.90	516.62	43603.02
12	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : (a) 250mm x 16mm .	9.96.2	24.00	NOS	260.60	195.43	4690.33
13	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :						
	(a) 250 mm x 10mm	9.97.2	24.00	NOS	115.15	86.35	2072.49


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	(a) 200 mm x 10mm	9.97.3	24.00	NOS	99.70	74.77	1794.42
14	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	9.100.1	48.00	NOS	66.25	49.68	2384.76
15	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	14.34	24.00	NOS	271.45	203.57	4885.61
16	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	14.75	254.10	SQM	670.95	503.16	127853.55
17	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	13.91	1147.47	SQM	25.15	18.86	21642.00
18	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.80	1342.51	SQM	156.05	117.03	157108.35
19	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	604.99	SQM	171.10	128.31	77627.60
20	Distemping (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger, J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials.	13.41.1	737.52	SQM	185.65	139.22	102680.20
21	Painting or varnishing on iron work in small areas or new wood work with one coat of ready mixed priming paint & one coat of approved superior quality ready mixed paint of clear synthetic varnish including supply of all materials, labour and T & P etc. required for proper completion of work. Paint to be used should confirm to the I.S.I. No. 103 1950	13.62.1	80.70	SQM	226.25	169.67	13692.42
22	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	15.60	8.49	CUM	263.95	197.94	1680.53
						TOTAL	904053.11

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(TYPE - I RESIDENCE)

(Internal Plumbing Work)

Sr. No.	DSR 2023 Code/ NSR	Description	Unit	Qty	DSR 2023 Rate (In Rs.)	DSR (without GST Rate)	DSR Amount (In Rs.)	NSR (In Rs.)	NSR Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS									
1	17 1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C flushing cistern including flush pipe, with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17 1 1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	0	6767.40	5075.04	N.R.		
2	17 2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C flushing cistern including flush pipe, with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17 2 1	W.C. pan with ISI marked white solid plastic seat and lid	Each	4	6,515.55	4886.18	19544.70		
3	17 34	Providing & fixing toilet paper holder							
	17 34 1	C.P. brass	Each	4	803.70	602.71	2410.86		
4	17 16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	Each	4	349.15	261.84	1047.35		
5	17 7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require							
	17 7 2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	4	2226.35	1669.60	6678.38		
6	17 28	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete	Each	4	119.55	89.65	358.61		
	17 28 2 1	32 mm dia (for wash basin)							
7	17 72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	Each	4	231.95	173.95	695.78		
8	18 65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	Each	4	111.45	83.58	334.32		
9	18 53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 (including angle valve for WC flushing cistern, jet & kitchen sink)	Each	4	574.30	430.68	1722.73		
	18 53 1	15 mm nominal bore							
10	18 21	Providing and fixing uplasticlised PVC connection pipe with brass unions							
	18 21 2	45 cm length	Each	8	97.75	73.31	586.44		
	18 21 2 1	15 mm nominal bore							
11	17 31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	4	1607.95	1205.84	4823.37		
12	18 49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS 8931	Each	4	506.80	380.06	1520.25		
	18 49 1	15mm nominal bore							
13	18 51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms	Each	5	798.95	599.15	2995.76		
	18 51 1	15mm nominal bore							
2 0	SUB HEAD-II-WATER SUPPLY								
1	18 8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.							
		Concealed work, including cutting chases and making good the walls etc.							
		For Internal Toilet							
	18 8 1	15 mm nominal outer dia Pipes	Metre	20	497.80	373.31	7466.26		
	18 8 2	20 mm nominal outer dia Pipes	Metre	15	537.60	403.16	6047.40		
	18 8 3	25 mm nominal outer dia Pipes	Metre	15	627.25	470.39	7055.86		

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18.7		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.							
		Internal work - Exposed on well							
18.7.2		20 mm nominal bore	Metre	10	335.00	251.22	2512.25		
18.7.3		25 mm nominal bore	Metre	10	401.55	301.13	3011.32		
2	18.10	Providing and fixing GI pipes complete with GI fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on Well							
		Terrace loop & Tank Filling Pipe							
18.10.3		25 mm nominal bore	Metre	25	551.70	413.73	10343.34		
4	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.							
			per litre	2000	11.00	8.25	16498.36		
5		Providing, checking, storing, fixing in position of approved quality Screwed ends Brass float valve with brass ball float and PTFE seat suitable for Body test pressure of 15Kg/sqcm of the following sizes						1465.00	1465.00
	PCR	20mm	Each	1				2280.00	2280.00
	PCR	25mm	Each	1					
6	18.38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work.							
18.38.3		25mm diameter pipe	Metre	20	30.25	22.69	453.70		
7	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee including cutting and threading the pipe etc. complete							
18.13.1		25 to 40 mm nominal bore	Each	3	911.90	683.86	2051.57		
8	18.16	Providing and fixing brass stop cock of approved quality.							
		For Internal Toilet							
18.16.2		20 mm nominal bore	Each	5	379.20	284.37	1421.86		
9	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)							
		For vertical pipe connection with terrace ringmain							
18.17.1A		20 mm nominal bore	Each	2	539.95	404.92	809.84		
18.17.1		25mm nominal bore	Each	2	622.40	466.75	933.51		
		SUB HEAD : III - ROOFING							
1	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS 13592 Type A, including jointing with seal ring conforming to IS 5362, leaving 10 mm gap for thermal expansion. (i) Single socketed pipes							
12.41.2		110 mm dia (for rain water)	Metre	20	377.40	283.02	5717.04		
2	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS 13592 Type A, including jointing with seal ring conforming to IS 5362, leaving 10 mm gap for thermal expansion							
12.42.2		Single Push Fit Coupler	Each	10	127.60	95.69	956.90		
12.42.2.2		110 mm dia							
12.42.3		Single tee with door	Each	10	234.15	175.59	1755.95		
12.42.3.2		110x110x110 mm							
12.42.5		Plain bend 87.5 deg	Each	20	150.35	112.75	2255.03		
12.42.5.2		110 mm dia							
3	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete							
12.43.2		110 mm dia	Each	20	371.30	278.45	5568.94		
4	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete							
			Each	0	298.25	223.67	0.00		
		SUB HEAD : IV - INTERNAL DRAINAGE							
1	PCR	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including push fit jointing with seal ring (i) Single socketed pipes							
		Internal Toilet (Soil & Waste Pipe)						560.00	16800.00
1.1	PCR	75 mm	Metre	30				805.00	20125.00
1.2	PCR	110 mm	Metre	25					

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		Exposed on Wall (Soil & Waste Pipe)							
1.3	PCR	110 mm	Metre	25				805 00	20125 00
2	PCR	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion.							
2.1	PCR	Bend without door (87.5°)							
		110mm bend	Each	10				300 00	3000 00
2.2	PCR	Bend without door (45°)							
		100mm	Each	10				250 00	2500 00
		75mm	Each	10				150 00	1500 00
2.3	PCR	Y' Fitting without door							
		100mm	Each	5				480 00	2400 00
		75mm	Each	10				265 00	2650 00
2.4	PCR	Single Tee without door							
		75 mm	Each	10				255 00	2550 00
2.5	PCR	Single Tee with door							
		110mm	Each	10				490 00	4900 00
		75 mm	Each	10				290 00	2900 00
2.6	PCR	Reduced Tee with door							
		110mm x 75mm	Each	20				430 00	8600 00
2.7	PCR	Coupler							
		110mm	Each	20				250 00	5000 00
2.8	PCR	Vent Cowl							
		110mm	Each	4				100 00	400 00
3	PCR	Providing, fixing, jointing and testing . of PVC Nahani Trap without Jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge							
	PCR	110mm x 75mm (Toilet)	Each	6				1060 00	6360 00
	PCR	110mm x 75mm (Kitchen)	Each	0				1060 00	0 00
4	18 58	Providing and fixing PTMT grating of approved quality and colour							
	18 58 2	Rectangular type with openable circular lid							
	18 58 2 1	150 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	Each	6	196.95	147.70	886.19		
7	19 4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :							
	19 4 2	150 x 100mm size P-type							
	19 4 2 1	With common burnt clay F.P.S (non modular) bricks of class designation 7.5	Each	3	2734.20	2050.45	6151.34		
8	19 1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete							
	19 1 1	100 mm diameter	Metre	35	443.60	332.67	11643.34		
9	2 10	Excavating trenches of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.							
	2 10 1	All kind of soil							
	2 10 1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300mm dia.	Metre	30	352.15	264.09	7922.59		
10	19 2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design							
	19 2 1	100mm dia SW pipe	Metre	30	964.75	723.49	21704.71		
		TOTAL				Rs.	Rs.	165885.85	103555.00
		G. TOTAL						269440.85	

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BILL OF QUANTITY

INTERNAL ELECTRIFICATION WORK FOR TYPE -I RESIDENCE

Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022 (DSR Rate = Rate*.789*(106/110))			
				Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	<u>A.</u>		<u>DSR Items</u>				
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required				
	1.10.3		Group C	Point	18	1115.37	20076.72
2	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	50	209.09	10454.25
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	28	253.94	7110.41
3	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	1.24.1		5/6 A switch	Each	12	78.31	939.74
	1.24.4		3 pin 5/6 A socket outlet	Each	12	92.76	1113.09
4	1.25	DSR	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	4	280.55	1122.22
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	4	30.41	121.65
6	1.27	DSR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
	1.27.1		1 or 2 Module (75mmX75mm)	Each	2	226.57	453.14
7	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	2	362.67	725.33
8	1.50	DSR	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
	1.50.1		Upto 450 mm sweep	Each	4	342.14	1368.56
9	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	2.4.1		4 way (4 + 12), Double door	Each	1	3110.42	3110.42
10	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
	2.5.1		4 way (4 + 12), Double door	Each	1	5711.44	5711.44

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11	2.10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.10.1		Single pole	Each	4	194.64	778.56
12	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	4	9.88	39.54
13	2.2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	2.2.13		100 A, 30KA, FPMCCB	Each	1	5871.87	5871.87
14	PCR	PCR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. CAT A	Each	1	1780.00	1780.00
15	PCR	PCR	Supply and fixing of 40 Amp. FP MCB (10 KA) C Curve. CAT A	Each	1	2275.00	2275.00
16	2.15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.15.1		40 A	Each	1	2423.87	2423.87
17	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	5681.03	11362.06
18	5.9	DSR	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	50	109.48	5474.23
19	5.12		Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	35	218.21	7637.30
20	19.1	DSR	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	4	2075.64	8302.58
21	PCR	PCR	Supply and fixing of Single light Wall Bracket on matching M.D.F.E.G. Board base etc. Complete in all respect. CAT. - AAA	Each	24	1650.00	39600.00
22	PCR	PCR	Supply and fixing of LED Tube Light fitting suitable for up to 1X22 Watt LED Tube Light on surface complete in all Respect .	Each	5	1200.00	6000.00
23	PCR	PCR	Supply & fixing of recess mounting round 15 to 18 watt LED down Lighter complete in all respect.	Each	4	1800.00	7200.00

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			Supply & Erracelionof factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreise Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release) Switches Complete and instrument chamber etc complete in all respects.				
			The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase vottage and single phase voltage, current and other parameters (KVA,P.F,KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic alumininum busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non gyroscopic supports such as CMC/BMC support with deteachable side covers and shall be suitable for extension on the sides.				
			The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grounting of the board as per directions of Engineer-in charge. All out goings of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm.Cubicletype switchboard shall be of cat A & B Only. CAT. B Cubicle Type				
24	PCR	PCR	Incoming - One (1) No 200Amp. TPN 1No. Outgoing - 100 Amp TPN -1No., 63 Amp TPN -3No.	Each	1	85000.00	85000.00
25	M.R.	NS	Supply & fixing of 225/300mm sweep ventilating (Light Duty) exhaust fan complete with Metallic Blade (Steel bird guard protector /Copper motor for high air suction performance /Capacitor etc.), Noise level : (45 - 50) dB, Power consumption : 45 W, Rated voltage : 230 V, Rated frequency : 50 Hz, Motor type : Normal Speed. Complete in all respect.	Each	4	2050.00	8200.00
Total							244251.98
				Say	Rs.	2.44	Lacs


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ABSTRACT OF COST FOR REPAIR / RENOVATION WORK

[TYPE -II RESIDENCE]

(Based on D.S.R. 2023 WITH)


S.N.	DESCRIPTION OF ITEM	SCH. NO.	QUANTITY	UNIT	RATES		AMOUNT
					DSR 2023	DSR*0.757 *106/107	
1	Dismantling cement concrete or granolithic floors including base concrete and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters (200feet)	15.23.2	445.59	SQM	113.35	85.00	37876.94
2	Providing & laying 25 mm thick Kota stone flooring over 20 mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)	11.26.1	12.09	SQM	1948.25	1461.04	17664.00
3	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	11.27	30.03	SQM	2354.70	1765.85	53028.44
4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. (Size of Tile 600x600 mm)	11.41.2	271.08	SQM	1553.45	1164.97	315800.43
5	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	11.46.2	38.07	SQM	1623.05	1217.17	46337.52
6	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 except burgundy, bottle green, black of any size 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 @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.31	58.86	SQM	1267.95	950.87	55968.07
7	Dismantling doors & windows including chaukhats with hold fast and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters (200feet)	15.12.2	0.00	NOS	502.75	377.02	0.00


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8	Providing & fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood & well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick						
	(a) Single Leaf	9.21.1	84.84	SQM	2392.65	1794.31	152229.14
9	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)	9.22	190.68	SQM	478.00	358.46	68351.97
10	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods, gratings etc. (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work fabrication of holes doors, chaukhats nosing.						
	(a) Providing & fixing of hold fast for chaukhats of doors and windows.	10.25.2	0.00	KG	172.60	129.44	N.R.
	(b) Providing & fixing of door / windows grill.	10.25.2	0.00	KG	172.60	129.44	N.R.
	(c) Z-Section steel windows	10.25.2	0.00	KG	172.60	129.44	N.R.
	(d) Angle iron door chaukhat 40*40*5	10.31	0.00	KG	130.50	97.87	N.R.
11	Fixing of panes of glass with Atul or equivalent I.S.I. marked quality putty. Brads & springs complete including cost of material, labour etc. (b) 4.0 mm thick	10.30.1	36.36	SQM	1064.65	798.41	29030.11
12	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:						
	(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately.	22.6	102.40	SQM	688.90	516.62	52902.25
13	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : (a) 250mm x 16mm .	9.96.2	49.00	NOS	260.60	195.43	9576.10
14	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :						
	(a) 250 mm x 10mm	9.97.2	49.00	NOS	115.15	86.35	4231.34


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ABSTRACT OF COST FOR REPAIR / RENOVATION WORK

[TYPE -II RESIDENCE]

[Internal Plumbing Work]

Sr. No.	DSR 2023 Code/ NSR	Description	Unit	Qty	DSR 2023 Rate (In Rs.)	DSR (without GST Rate)	DSR Amount (In Rs.)	NSR (In Rs.)	NSR Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS									
1	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	0	6767.40	5075.04	0.00		
2	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	6	6.515.55	4886.18	29317.05		
3	17.34	Providing & fixing toilet paper holder							
	17.34.1	C.P. brass	Each	6	803.70	602.71	3616.29		
4	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	Each	6	349.15	261.84	1571.02		
5	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require.							
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	6	2226.35	1669.60	10017.58		
6	17.28	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete							
	17.28.2.1	32 mm dia (for wash basin)	Each	6	119.55	89.65	537.92		
7	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	Each	6	231.95	173.95	1043.67		
8	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	Each	6	111.45	83.58	501.48		
9	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 (including angle valve for WC flushing cistern, jet & kitchen sink)							
	18.53.1	15 mm nominal bore	Each	6	574.30	430.68	2584.09		
10	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :							
	18.21.2	45 cm length							
	18.21.2.1	15 mm nominal bore	Each	6	97.75	73.31	439.83		
11	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	6	1607.95	1205.84	7235.05		
12	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS 8931							
	18.49.1	15mm nominal bore	Each	6	506.80	380.06	2280.37		
13	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms							
	18.51.1	15mm nominal bore	Each	6	798.95	599.15	3594.92		
2.0	SUB HEAD-II-WATER SUPPLY								
1	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge							
		Concealed work, including cutting chases and making good the walls etc.							
		For Internal Toilet							
	18.8.1	15 mm nominal outer dia Pipes	Metre	45	497.80	373.31	16799.08		
	18.8.2	20 mm nominal outer dia Pipes	Metre	25	537.60	403.16	10079.00		
	18.8.3	25 mm nominal outer dia Pipes	Metre	20	627.25	470.39	9407.81		
2	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge							
		Internal work - Exposed on wall							
	18.7.2	20 mm nominal bore	Metre	15	335.00	251.22	3768.37		
3	18.10	Providing and fixing GI pipes complete with GI fittings and clamps i/c cutting and making good the walls etc. Internal work - Exposed on Wall							
		Terrace loop & Tank Filling Pipe							
	18.10.3	25 mm nominal bore	Metre	10	551.70	413.73	4137.34		


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18 48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	2000	11 00	8 25	16488 30		
5	PCR Providing, checking, storing, fixing in position of approved quality. Screwed ends Brass float valve with brass ball float and PTFE seat suitable for Body test pressure of 15kg/sqcm of the following sizes							
	20mm	Each	1			1485 00	1485 00	
	25mm	Each	1			2280 00	2280 00	
6	18 30 Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work							
18 30 3	25mm diameter pipe	Metre	10	30 25	22 69	228 85		
7	18 13 Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee including cutting and threading the pipe etc. complete							
18 13 1	25 to 40 mm nominal bore	Each	2	911 90	683 88	1367 71		
8	18 16 Providing and fixing brass stop cock of approved quality							
	For Internal Toilet							
18 16 2	20 mm nominal bore	Each	5	379 20	284 37	1421 86		
9	18 17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)							
	For vertical pipe connection with terrace ringmain							
18 17 1A	20 mm nominal bore	Each	1	539 95	404 92	404 92		
18 17 1	25mm nominal bore	Each	1	622 40	466 75	466 75		
	SUB HEAD - III - ROOFING							
1	12 41 Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS 13562 Type A, including jointing with seal ring conforming to IS 5362, leaving 10 mm gap for thermal expansion. (i) Single socketed pipes							
12 41 2	110 mm dia. (for rain water)	Metre	45	377 40	283 02	12735 98		
2	12 42 Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS 13562 Type A, including jointing with seal ring conforming to IS 5362, leaving 10 mm gap for thermal expansion							
12 42 2	Single Push Fit Coupler							
12 42 2 2	110 mm dia.	Each	8	127 60	95 69	765 52		
12 42 3	Single tee with door							
12 42 3 2	110x110x110 mm	Each	8	234 15	175 59	1404 76		
12 42 5	Plain bend 87.5 deg.							
12 42 5 2	110 mm dia.	Each	8	150 35	112 75	902 01		
3	12 43 Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete							
12 43 2	110 mm dia.	Each	20	371 30	278 45	5568 94		
4	12 22 Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete							
		Each	10	298 25	223 67	2236 65		
	SUB HEAD - IV - INTERNAL DRAINAGE							
1	PCR Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13562 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring. (i) Single socketed pipes							
	Internal Toilet (Soil & Waste Pipe)							
1 1	PCR 75 mm	Metre	15			560 00	8400 00	
1 2	PCR 110 mm	Metre	25			805 00	20125 00	
	Exposed on Wall (Soil & Waste Pipe)							
1 3	PCR 110 mm	Metre	15			805 00	12075 00	
2	PCR Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion							
2 1	PCR Bend without door (87.5°)							
	110mm bend	Each	5			300 00	1500 00	
2 2	PCR Bend without door (45°)							
	100mm	Each	5			250 00	1250 00	
	75mm	Each	5			150 00	750 00	
2 3	PCR Y Fitting without door							
	100mm	Each	3			480 00	1440 00	
	75mm	Each	6			265 00	1590 00	
2 4	PCR Single Tee without door							
	75 mm	Each	6			255 00	1530 00	
2 5	PCR Single Tee with door							
	110mm	Each	5			490 00	2450 00	
	75 mm	Each	5			290 00	1450 00	
2 6	PCR Reduced Tee with door							
	110mm x 75mm	Each	10			430 00	4300 00	
2 7	PCR Coupler							
	110mm	Each	10			250 00	2500 00	
2 8	PCR Vent Cowl							
	110mm	Each	2			100 00	200 00	
3	PCR Providing, fixing, jointing and testing, of PVC Nahani Trap without jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge							
	110mm x 75mm (Toilet)	Each	6			1060 00	6360 00	

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	NSR	110mm x 75mm (Kitchen)	Each	6				1080.00	6.00
4	18.5B	Providing and fixing P.T.M.T. grating of approved quality and colour							
	18.5B.2	Rectangular type with openable circular lid							
	18.5B.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	Each	5	195.95	147.70	738.49		
7	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.1 grating brick masonry chamber with water tight C.1 cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design.							
	19.4.2	150 x 100mm size F type							
	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1	2734.20	2050.45	2050.45		
8	19.1	Providing laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete							
	19.1.1	100 mm diameter	Metre	25	443.60	332.67	8316.67		
9	2.10	Excavating trenches of required width for pipes cables etc. including excavation for sockets and dressing of sides ramming of bottoms depth upto 1.5 m including getting out the excavated soil and then returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming watering etc. and disposing of surplus excavated soil as directed within a lead of 50 m							
	2.10.1	All kind of soil	Metre	20	352.15	284.09	5281.72		
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300mm dia							
10	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design	Metre	20	964.75	723.49	14469.81		
	19.2.1	100mm dia S.W. pipe							
		TOTAL			Rs.	Rs.	181788.33		69665.00
		G TOTAL					251453.33		


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BILL OF QUANTITY

INTERNAL ELECTRIFICATION WORK FOR TYPE -II RESIDENCE

Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022 (DSR Rate = Rate*.789*(106/110))			
				Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	<u>A.</u>		<u>DSR Items</u>				
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.10.3		Group C	Point	72	1115.37	80306.89
2	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	150	209.09	31362.75
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	90	253.94	22854.89
3	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	1.24.1		5/6 A switch	Each	18	78.31	1409.61
	1.24.4		3 pin 5/6 A socket outlet	Each	18	92.76	1669.64
4	1.25	DSR	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	9	280.55	2524.99
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	24	30.41	729.90
6	1.27	DSR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
	1.27.1		1 or 2 Module (75mmX75mm)	Each	12	226.57	2718.87
7	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	12	362.67	4352.01
8	1.50	DSR	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
	1.50.1		Upto 450 mm sweep	Each	2	342.14	684.28
9	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	2.4.1		4 way (4 + 12), Double door	Each	1	3110.42	3110.42
10	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
	2.5.1		4 way (4 + 12), Double door	Each	1	5711.44	5711.44

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11	2 10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "G" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required				
	2 10 1		Single pole	Each	6	194.64	1167.83
12	2 11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required	Each	6	9.88	59.30
13	2 2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc as required				
	2 2 13		100 A 30KA FPMCCB	Each	1	5871.87	5871.87
14	PCR	PCR	Supply and fixing of 40 Amp TP MCB (10 KA) C Curve CAT A	Each	1	1780.00	1780.00
15	PCR	PCR	Supply and fixing of 40 Amp FP MCB (10 KA) C Curve CAT A	Each	1	2275.00	2275.00
16	2 15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2 15 1		40 A	Each	1	2423.87	2423.87
17	5 4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2	5681.03	11362.06
18	5 9	DSR	Supplying and laying 25 mm X 5 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	50	109.48	5474.23
19	5 12	DSR	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	30	218.21	6546.26
20	19 1	DSR	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	9	2075.64	18680.79
21	PCR	PCR	Supply and fixing of Single light Wall Bracket on matching M.D.F.E.G. Board base etc Complete in all respect. CAT. - AAA	Each	42	1650.00	69300.00
22	PCR	PCR	Supply and fixing of LED Tube Light fitting suitable for up to 1X22 Watt LED Tube Light on surface complete in all Respect.	Each	8	1200.00	9600.00
23	PCR	PCR	Supply & fixing of recess mounting round 15 to 18 watt LED down Lighter complete in all respect.	Each	12	1800.00	21600.00

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			Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreise Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release) Switches Complete and instrument chamber etc complete in all respects.				
			The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase voltage and single phase voltage, current and other parameters (KVA, P.F, KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic aluminium busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non gyroscopic supports such as CMC/BMC support with deteachable side covers and shall be suitable for extension on the sides.				
			The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grouting of the board as per directions of Engineer-in charge. All out goings of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm Cubicle type switchboard shall be of cat A & B Only. CAT. B Cubicle Type				
24		MR	Incoming - One (1) No 200Amp. TPN 1No.	Each	1	85000.00	85000.00
			Outgoing - 100 Amp TPN -1No., 63 Amp TPN -3No.				
25	M.R.	NS	Supply & fixing of 225/300mm sweep ventilating (Light Duty) exhaust fan complete with Metallic Blade (Steel bird guard protector /Copper motor for high air suction performance /Capacitor etc.), Noise level : (45 - 50) dB, Power consumption : 45 W, Rated voltage : 230 V, Rated frequency : 50 Hz, Motor type : Normal Speed. Complete in all respect.	Each	12	2050.00	24600.00
			Total				423176.90
				Say	Rs.	4.23	Lacs


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ABSTRACT OF COST FOR REPAIR / RENOVATION WORK

[TYPE -III RESIDENCE]

(Based on D.S.R. 2023 WITH)

S.N.	DESCRIPTION OF ITEM	SCH. NO.	QUANTITY	UNIT	RATES	AMOUNT	
					DSR 2023	DSR*0.757 *106/107	
1	Dismantling cement concrete or granolithic floors including base concrete and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters (200feet)	15.23.2	111.74	SQM	113.35	85.00	9498.35
2	Providing & laying 25 mm thick Kota stone flooring over 20 mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)	11.26.1	4.22	SQM	1948.25	1461.04	6165.60
3	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	11.27	18.20	SQM	2354.70	1765.85	32138.45
4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement :4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. (Size of Tile 600x600 mm)	11.41.2	61.26	SQM	1553.45	1164.97	71366.15
5	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	11.46.2	7.53	SQM	1623.05	1217.17	9165.26
6	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 except burgundy, bottle green, black of any size 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 @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.31	20.43	SQM	1267.95	950.87	19426.23


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7	Dismantling doors & windows including chaukhats with hold fast and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters.(200feet)	15 12.2	0.00	NOS	502.75	377.02	N.R.
8	Providing & fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood & well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick						
	(a) Single Leaf	9.21.1	10.29	SQM	2392.65	1794.31	18463.44
9	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)	9.22	31.08	SQM	478.00	358.46	11141.07
10	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods, gratings etc. (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work fabrication of holes doors, chaukhats nosing.						
(a)	Providing & fixing of hold fast for chaukhats of doors and windows.	10.25.2	0.00	KG	172.60	129.44	N.R.
(b)	Providing & fixing of door / windows grill.	10.25.2	0.00	KG	172.60	129.44	N.R.
(c)	Z-Section steel windows	10.25.2	0.00	KG	172.60	129.44	N.R.
(d)	Angle iron door chaukhat 40*40*5	10.31	0.00	KG	130.50	97.87	N.R.
11	Fixing of panes of glass with Atul or equivalent I.S.I. marked quality putty. Brads & springs complete including cost of material, labour etc. (b) 4.0 mm thick	10.30.1	8.34	SQM	1064.65	798.41	6658.72
12	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:						
	(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately.						
		22.6	93.48	SQM	688.90	516.62	48293.96

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13	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc complete : (a) 250mm x 16mm .	9 96 2	8 00	NOS	260 60	195 43	1563 44
14	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc complete						
	(a) 250 mm x 10mm	9 97 2	8 00	NOS	115 15	86 35	690 83
	(a) 200 mm x 10mm	9 97 3	8 00	NOS	99 70	74 77	598 14
15	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc complete : 125 mm	9 100.1	16 00	NOS	66 25	49 68	794 92
16	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	14.34	8 00	NOS	271.45	203 57	1628 54
17	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	14.75	115.93	SQM	670.95	503.16	58331.61
18	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	13.91	614.62	SQM	25.15	18.86	11592 11
19	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.80	704.87	SQM	156.05	117.03	82488 00
20	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	315.52	SQM	171.10	128.31	40485 07
21	Distemping (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger, J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials	13.41.1	389.35	SQM	185 65	139.22	54206 72


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22	Painting or varnishing on iron work in small areas or new wood work with one coat of ready mixed priming paint & one coat of approved superior quality ready mixed paint of clear synthetic varnish including supply of all materials, labour and T & P etc. required for proper completion of work. Paint to be used should confirm to the I.S.I. No. 103 1950	13.62.1	29.60	SQM	226.25	169.67	5022.25
23	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	15.60	4.47	CUM	263.95	197.94	884.80
						TOTAL	490603.66


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[TYPE -III RESIDENCE]

[Internal Plumbing Work]

Sr. No.	DSR 2023 Code/ NSR	Description	Unit	Qty	DSR 2023 Rate (In Rs.)	DSR (without GST Rate)	DSR Amount (In Rs.)	NSR (In Rs.)	NSR Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS									
1	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each		6767.40	5075.04	N.R.		
2	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	2	6,515.55	4886.18	9772.35		
3	17.34	Providing & fixing toilet paper holder							
	17.34.1	C.P. brass	Each	2	803.70	602.71	1205.43		
4	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	Each	2	349.15	261.84	523.67		
5	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require							
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	2	2226.35	1669.60	3339.19		
6	17.28	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete							
	17.28.2.1	32 mm dia (for wash basin)	Each	2	119.55	89.65	179.31		
7	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	Each	2	231.95	173.95	347.89		
8	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	Each	2	111.45	83.58	167.16		
9	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 (including angle valve for WC flushing cistern, jet & kitchen sink)							
	18.53.1	15 mm nominal bore	Each	3	574.30	430.68	1292.05		
10	18.21	Providing and fixing unplasticised PVC connection pipe with brass unions							
	18.21.2	45 cm length							
	18.21.2.1	15 mm nominal bore	Each	2	97.75	73.31	146.61		
11	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	2	1607.95	1205.84	2411.68		
12	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS 8931							
	18.49.1	15mm nominal bore	Each	2	506.80	380.06	760.12		
13	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms							
	18.51.1	15mm nominal bore	Each	2	798.95	599.15	1198.31		
2.0	SUB HEAD-II-WATER SUPPLY								
1	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge							
		Concealed work, including cutting chases and making good the walls etc							
		For Internal Toilet							
	18.8.1	15 mm nominal outer dia Pipes	Metre	20	497.80	373.31	7466.26		
	18.8.2	20 mm nominal outer dia Pipes	Metre	15	537.60	403.16	6047.40		
	18.8.3	25 mm nominal outer dia Pipes	Metre	10	627.25	470.39	4703.91		
2	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge							
		Internal work - Exposed on wall							
	18.7.2	20 mm nominal bore	Metre	10	335.00	251.22	2512.25		
3	18.10	Providing and fixing GI pipes complete with GI fittings and clamps i/c cutting and making good the walls etc. Internal work - Exposed on Wall							
		Terrace loop & Tank Filling Pipe							
	18.10.3	25 mm nominal bore	Metre	10	551.70	413.73	4137.34		

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4		Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.						
			per litre	1000	11 00	8 25	8249 18	
5	PCR	Providing, checking, storing, fixing in position of approved quality Screwed ends Brass float valve with brass ball float and PTFE seat suitable for Body test pressure of 15Kg/sqcm of the following sizes						
		20mm	Each	1			1465 00	1465 00
		25mm	Each	1			2280 00	2280 00
6	18 38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work						
	18 38 3	25mm diameter pipe	Metre	10	30 25	22 69	226 85	
7	18 13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete						
	18 13 1	25 to 40 mm nominal bore	Each	2	911 90	683 86	1367 71	
8	18 16	Providing and fixing brass stop cock of approved quality						
		For Internal Toilet						
	18 16 2	20 mm nominal bore	Each	4	379 20	284 37	1137 49	
9	18 17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)						
		For vertical pipe connection with terrace ringmain						
	18 17 1A	20 mm nominal bore	Each	1	539 95	404 92	404 92	
	18 17 1	25mm nominal bore	Each	1	622 40	466 75	466 75	
		SUB HEAD : III - ROOFING						
1	12 41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.						
	12 41 2	110 mm dia (for rain water)	Metre	15	377 40	283 02	4245 33	
2	12 42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion						
	12 42 2	Single Push Fit Coupler						
	12 42 2 2	110 mm dia	Each		127 60	95 69		
	12 42 3	Single tee with door						
	12 42 3 2	110x110x110 mm	Each		234 15	175 59		
	12 42 5	Plain bend 87.5 deg						
	12 42 5 2	110 mm dia	Each	8	150 35	112 75	902 01	
3	12 43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete						
	12 43 2	110 mm dia	Each	8	371 30	278 45	2088 35	
4	12 22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete						
			Each		298 25	223 67		
		SUB HEAD : IV - INTERNAL DRAINAGE						
1	PCR	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring. (i) Single socketed pipes						
		Internal Toilet (Soil & Waste Pipe)						
1 1	PCR	75 mm	Metre	15			560 00	8400 00
1 2	PCR	110 mm	Metre	25			805 00	20125 00
		Exposed on Wall (Soil & Waste Pipe)						
1 3	PCR	110 mm	Metre	15			805 00	12075 00
2	PCR	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion						
2 1	PCR	Bend without door (87.5°)						
		110mm bend	Each	5			300 00	1500 00
2 2	PCR	Bend without door (45°)						
		100mm	Each	5			250 00	1250 00
		75mm	Each	5			150 00	750 00
2 3	PCR	Y Fitting without door						
		100mm	Each	3			480 00	1440 00
		75mm	Each	6			265 00	1590 00
2 4	PCR	Single Tee without door						
		75 mm	Each	6			255 00	1530 00
2 5	PCR	Single Tee with door						
		110mm	Each	5			490 00	2450 00
		75 mm	Each	5			290 00	1450 00
2 6	PCR	Reduced Tee with door						
		110mm x 75mm	Each	10			430 00	4300 00
2 7	PCR	Coupler						
		110mm	Each	8			250 00	2000 00
2 8	PCR	Vent Cowl						
		110mm	Each	2			100 00	200 00

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4		Providing fixing jointing and testing of PVC Nahani Trap without jet of minimum 50 mm water seal making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer in Charge						
NCR		110mm x 75mm (Toilet)	Each	5			1965.00	5300.00
PCR		110mm x 75mm (Kitchen)	Each				1965.00	
4	16.58	Providing and fixing F.T.M.T grating of approved quality and colour Rectangular type with operable circular lid						
16.58.2	16.58.2.1	140 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	Each	5	196.65	147.70	738.49	
10.4		Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design.						
16.4.2	16.4.2.1	150 x 100mm size P-type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1	2734.20	2050.45	2050.45	
6	19.1	Providing laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including fitting of joints etc. complete						
19.1.1		100 mm diameter	Metre	15	443.80	332.87	4990.00	
6	2.10	Excavating trenches of required width for pipes cables etc including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil and then returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming watering etc and disposing of surplus excavated soil as directed within a lead of 50 m.						
2.10.1		All kind of soil	Metre	15	352.15	264.09	3061.29	
2.10.1.2		Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300mm dia.						
10	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design.						
19.2.1		100mm dia S.W. pipe	Metre	15	964.75	723.49	10852.36	
							Rs 87892.10	68105.00
		TOTAL						
		G. TOTAL					155997.10	


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BILL OF QUANTITY							
INTERNAL ELECTRIFICATION WORK FOR TYPE -III RESIDENCE							
Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022 (DSR Rate = Rate*.789*(106/110))			
				Unit	Qty.	Rate (Rs.)	Amount (Rs.)
DSR Items							
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.10.3		Group C	Point	20	1115.37	22307.47
2	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	50	209.09	10454.25
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	30	253.94	7618.30
3	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				0.00
	1.24.1		5/6 A switch	Each	8	78.31	626.49
	1.24.4		3 pin 5/6 A socket outlet	Each	8	92.76	742.06
							0.00
4	1.25	DSR	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	3	280.55	841.66
							0.00
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	20	30.41	608.25
							0.00
6	1.27	DSR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				0.00
	1.27.1		1 or 2 Module (75mmX75mm)	Each	10	226.57	2265.72
							0.00
7	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	10	362.67	3626.67
							0.00
8	1.50	DSR	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.	Each	2	342.14	684.28
	1.50.1		Upto 450 mm sweep				0.00
9	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				0.00
	2.4.1		4 way (4 + 12), Double door	Each	1	3110.42	3110.42
							0.00

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10	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				0.00
	2.5.1		4 way (4 + 12), Double door	Each	1	5711.44	5711.44
							0.00
11	2.10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				0.00
	2.10.1		Single pole	Each	12	194.64	2335.67
							0.00
12	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	12	9.88	118.61
							0.00
13	2.2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	2.2.13		100 A,30KA,FPMCCB	Each	1	5871.87	5871.87
14	PCR	PCR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. CAT A	Each	1	1780.00	1780.00
15	PCR	PCR	Supply and fixing of 40 Amp. FP MCB (10 KA) C Curve. CAT A	Each	1	2275.00	2275.00
							0.00
16	2.15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				0.00
	2.15.1		40 A	Each	1	2423.87	2423.87
							0.00
17	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	1	5681.03	5681.03
18	5.9	DSR	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	25	109.48	2737.11
19	5.12		Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	15	218.21	3273.13

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20	19.1	DSR	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos blades, 30 cm long down rod, 2 nos canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/MW) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	3	2075.64	6226.93
21	PCR	PCR	Supply and fixing of Single light Wall Bracket on matching M.D.F.E.G. Board base etc. Complete in all respect. CAT. - AAA	Each	10	1650.00	16500.00
22	PCR	PCR	Supply and fixing of LED Tube Light fitting suitable for up to 1X22 Watt LED Tube Light on surface complete in all Respect .	Each	5	1200.00	6000.00
23	PCR	PCR	Supply & fixing of recess mounting round 15 to 18 watt LED down Lighter complete in all respect.	Each	2	1800.00	3600.00
							0.00
24	PCR	PCR	Supply & fixing of 225/300mm sweep ventilating (Light Duty) exhaust fan complete with Metallic Blade (Steel bird guard protector /Copper motor for high air suction performance /Capacitor etc.), Noise level : (45 - 50) dB, Power consumption : 45 W, Rated voltage : 230 V, Rated frequency : 50 Hz, Motor type : Normal Speed. Complete in all respect.	Each	2	2050.00	4100.00
							0.00
							121520.23
				Total			
				Say	Rs.	1.22	Lacs

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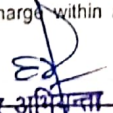
ABSTRACT OF COST FOR REPAIR / RENOVATION WORK

[TYPE -IV RESIDENCE]


(Based on D.S.R. 2023 WITH)

S.N.	DESCRIPTION OF ITEM	SCH. NO.	QUANTITY	UNIT	RATES	AMOUNT	
					DSR 2023	DSR*0.757 *106/107	
1	Dismantling cement concrete or granolithic floors including base concrete and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters. (200feet)	15.23.2	201.10	SQM	113.35	85.00	17094.31
2	Providing & laying 25 mm thick Kota stone flooring over 20 mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)	11.26.1	23.24	SQM	1948.25	1461.04	33954.61
3	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	11.27	26.49	SQM	2354.70	1765.85	46777.34
4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. (Size of Tile 600x600 mm)	11.41.2	112.46	SQM	1553.45	1164.97	131012.68
5	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	11.46.2	12.84	SQM	1623.05	1217.17	15628.41
6	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 except burgundy, bottle green, black of any size 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 @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.31	54.79	SQM	1267.95	950.87	52098.04
7	Dismantling doors & windows including chaukhats with hold fast and including stacking of dismantled materials as directed by Engineer-in-charge within a distance of 60 meters. (200feet)	15.12.2	0.00	NOS	502.75	377.02	0.00


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
8	Providing & fixing ISI marked flush door shutters conforming to IS 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood & well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 35 mm thick						
	(a) Single Leaf	9 21.1	24 57	SQM	2392 65	1794 31	44066 16
9	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS 2202 (Part I)	9 22	59 65	SQM	478 00	358 46	21454 09
10	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods, gratings etc (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work fabrication of holes doors, chaukhats nosing						
	(a) Providing & fixing of hold fast for chaukhats of doors and windows	10 25 2	0 00	KG	172 60	129 44	N.R.
	(b) Providing & fixing of door / windows grill	10 25 2	0 00	KG	172.60	129 44	N.R.
	(c) Z-Section steel windows	10 25 2	0 00	KG	172 60	129 44	N.R.
	(d) Angle iron door chaukhat 40*40*5	10 31	0 00	KG	130 50	97 87	N.R.
11	Fixing of panes of glass with Atul or equivalent I.S.I. marked quality putty. Brads & springs complete including cost of material, labour etc. (b) 4.0 mm thick	10 30.1	27.23	SQM	1064.65	798.41	21740.65
12	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:						
	(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately.	22 6	156 89	SQM	688.90	516.62	81053.06
13	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : (a) 250mm x 16mm .	9 96 2	16 00	NOS	260.60	195.43	3126 89
14	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete						
	(a) 250 mm x 10mm	9 97 2	16 00	NOS	115 15	86 35	1381 66


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	(a) 200 mm x 10mm	9.97.3	16.00	NOS	99.70	74.77	1196.28
15	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	9 100.1	32.00	NOS	66.25	49.68	1589.84
16	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	14.34	16.00	NOS	271.45	203.57	3257.08
17	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	14.75	151.30	SQM	670.95	503.16	76128.46
18	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	13.91	945.14	SQM	25.15	18.86	17825.93
19	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.80	1039.69	SQM	156.05	117.03	121670.59
20	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	13.47.1	446.03	SQM	171.10	128.31	57231.09
21	Distemping (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger, J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials.	13.41.1	593.66	SQM	185.65	139.22	82651.49
22	Painting or varnishing on iron work in small areas or new wood work with one coat of ready mixed priming paint & one coat of approved superior quality ready mixed paint of clear synthetic varnish including supply of all materials, labour and T & P etc. required for proper completion of work. Paint to be used should confirm to the I.S.I. No. 103 1950	13.62.1	74.10	SQM	226.25	169.67	12572.59
23	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	15.60	8.04	CUM	263.95	197.94	1591.46
						TOTAL	845122.71


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[TYPE -IV RESIDENCE]

[Internal Plumbing Work]

Sr No.	DSR 2023 Code/NSR	Description	Unit	Qty	DSR 2023 Rate (In Rs.)	DSR (without GST Rate)	DSR Amount (In Rs.)	NSR (In Rs.)	NSR Amount (In Rs.)
SUB HEAD-I-SANITARY INSTALLATIONS									
1	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1	6767.40	5075.04	NR		
2	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seal and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required							
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	2	6,515.55	4866.18	9772.35		
3	17.34	Providing & fixing toilet paper holder							
	17.34.1	C.P. brass	Each	2	803.70	602.71	1205.43		
4	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	Each	2	349.15	261.84	523.67		
5	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require							
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	2	2226.35	1669.60	3339.19		
6	17.26	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete	Each	2	119.55	89.65	179.31		
	17.26.2.1	32 mm dia (for wash basin)							
7	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	Each	2	231.95	173.95	347.89		
8	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	Each	2	111.45	83.58	167.16		
9	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 (including angle valve for WC flushing cistern, jet & kitchen sink)	Each	3	574.30	430.68	1292.05		
	18.53.1	15 mm nominal bore							
10	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions.							
	18.21.2	45 cm length	Each	2	97.75	73.31	146.61		
	18.21.2.1	15 mm nominal bore							
11	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	2	1607.95	1205.84	2411.68		
12	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS 8931	Each	2	506.80	380.06	760.12		
	18.49.1	15mm nominal bore							
13	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms	Each	2	798.95	599.15	1198.31		
	18.51.1	15mm nominal bore							
2.0	SUB HEAD-II-WATER SUPPLY								
1	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge							
		Concealed work including cutting chases and making good the walls etc							
		For Internal Toilet	Metre	25	497.80	373.31	9332.82		
	18.8.1	15 mm nominal outer dia Pipes	Metre	20	537.60	403.16	8063.20		
	18.8.2	20 mm nominal outer dia Pipes	Metre	15	627.25	470.39	7055.86		
	18.8.3	25 mm nominal outer dia Pipes							
2	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge							
		Internal work - Exposed on wall	Metre	10	335.00	251.22	2512.25		
	18.7.2	20 mm nominal bore							
3	18.10	Providing and fixing GI pipes complete with GI fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on Wall							
		Terrace loop & Tank Filling Pipe	Metre	15	551.70	413.73	6206.01		
	18.10.3	25 mm nominal bore							

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		Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank							
			per litre	1000	11.00	8.25	8249.18		
5	PCR	Providing, checking, storing, fixing in position of approved quality. Screwed ends Brass float valve with brass ball float and PTFE seat suitable for Body test pressure of 15Kg/sqcm of the following sizes							
		20mm	Each	1			1465.00	1465.00	
		25mm	Each	1			2280.00	2280.00	
6	18.38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work							
	18.38.3	25mm diameter pipe	Metre	15	30.25	22.69	340.28		
7	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete							
	18.13.1	25 to 40 mm nominal bore	Each	2	911.90	683.86	1367.71		
8	18.16	Providing and fixing brass stop cock of approved quality							
		For Internal Toilet							
	18.16.2	20 mm nominal bore	Each	4	379.20	284.37	1137.49		
9	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)							
		For vertical pipe connection with terrace ringmain							
	18.17.1A	20 mm nominal bore	Each	1	539.95	404.62	404.62		
	18.17.1	25mm nominal bore	Each	1	622.40	466.75	466.75		
		SUB HEAD : III - ROOFING							
1	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS 13592 Type A, including jointing with seal ring conforming to IS 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes							
	12.41.2	110 mm dia (for rain water)	Metre	20	377.40	283.02	5660.44		
2	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS 5382, leaving 10 mm gap for thermal expansion							
	12.42.2	Single Push Fit Coupler	Each	0	127.60	95.69	0.00		
	12.42.2.2	110 mm dia							
	12.42.3	Single tee with door	Each	0	234.15	175.59	0.00		
	12.42.3.2	110x110x110 mm							
	12.42.5	Plan bend 67.5 deg	Each	8	150.35	112.75	902.01		
	12.42.5.2	110 mm dia							
3	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc complete							
	12.43.2	110 mm dia	Each	10	371.30	278.45	2784.47		
4	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete							
			Each	0	298.25	223.67	0.00		
		SUB HEAD : IV - INTERNAL DRAINAGE							
1	PCR	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring (i) Single socketed pipes.							
		Internal Toilet (Soil & Waste Pipe)						560.00	8400.00
1.1	PCR	75 mm	Metre	15				805.00	20125.00
1.2	PCR	110 mm	Metre	25					
		Exposed on Wall (Soil & Waste Pipe)						805.00	8050.00
1.3	PCR	110 mm	Metre	10					
2	PCR	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion							
2.1	PCR	Bend without door (87.5°)	Each	5				300.00	1500.00
		110mm bend							
2.2	PCR	Bend without door (45°)	Each	5				250.00	1250.00
		100mm	Each	5				150.00	750.00
		75mm							
2.3	PCR	Y Fitting without door	Each	3				480.00	1440.00
		100mm	Each	6				265.00	1590.00
		75mm							
2.4	PCR	Single Tee without door	Each	6				255.00	1530.00
		75 mm							
2.5	PCR	Single Tee with door	Each	5				490.00	2450.00
		110mm	Each	5				290.00	1450.00
		75 mm							
2.6	PCR	Reduced Tee with door	Each	10				430.00	4300.00
		110mm x 75mm							
2.7	PCR	Coupler	Each	8				250.00	2000.00
		110mm							
2.8	PCR	Vent Cowl	Each	2				100.00	200.00
		110mm							

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BILL OF QUANTITY							
INTERNAL ELECTRIFICATION WORK FOR TYPE-IV BUILDING							
Sl. No	Code/ No.	Sch. Ref.	Description of Items	AS PER CPWD DSR 2022 (DSR Rate = Rate*.789*(106/110))			
DSR Items				Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	1.10	DSR	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.10.3		Group C	Point	25	1115.37	27884.34
2	1.14	DSR	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.2		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr.	55	209.09	11499.68
	1.14.3		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr.	40	253.94	10157.73
3	1.24	DSR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	1.24.1		5/6 A switch	Each	10	78.31	783.12
	1.24.4		3 pin 5/6 A socket outlet	Each	10	92.76	927.58
4	1.25	DSR	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	4	280.55	1122.22
5	1.26	DSR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	20	30.41	608.25
6	1.27	DSR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
	1.27.1		1 or 2 Module (75mmX75mm)	Each	10	226.57	2265.72
7	1.31	DSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	10	362.67	3626.67
8	1.50	DSR	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
	1.50.1		Upto 450 mm sweep	Each	2	342.14	684.28
9	2.4	DSR	Supplying and fixing following way, horizontal type three pole and neutral (TPN), sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	2.4.1		4 way (4 + 12), Double door	Each	1	3110.42	3110.42


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10	2.5	DSR	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
	2.5.1		4 way (4 + 12), Double door	Each	1	5711.44	5711.44
11	2.10	DSR	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.10.1		Single pole	Each	12	194.64	2335.67
12	2.11	DSR	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	12	9.88	118.61
13	2.2	DSR	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	2.2.13		100 A, 30KA, FPMCCB	Each	1	5871.87	5871.87
14	PCR	PCR	Supply and fixing of 40 Amp. TP MCB (10 KA) C Curve. CAT A	Each	1	1780.00	1780.00
15	PCR	PCR	Supply and fixing of 40 Amp. FP MCB (10 KA) C Curve. CAT A	Each	1	2275.00	2275.00
16	2.15	DSR	Supplying and fixing following rating, four pole, (three phase and neutral) SPN, 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.15.1		40 A	Each	1	2423.87	2423.87
17	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	1	5681.03	5681.03
18	5.9	DSR	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	25	109.48	2737.11
19	5.12		Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	15	218.21	3273.13

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20	19.1	DSR	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/MW) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	4	2075.64	8302.58
21	PCR	PCR	Supply and fixing of Single light Wall Bracket on matching M.D.F.E.G. Board base etc.Complete in all respect. CAT. - AAA	Each	19	1650.00	31350.00
22	PCR	PCR	Supply and fixing of LED Tube Light fitting suitable for up to 1X22 Watt LED Tube Light on surface complete in all Respect .	Each	7	1200.00	8400.00
23	PCR	PCR	Supply & fixing of recess mounting round 15 to 18 watt LED down Lighter complete in all respect.	Each	2	1800.00	3600.00
			Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreise Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release) Switches Complete and instrument chamber etc.complete in all respects.				
			The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase voltage and single phase voltage, current and other parameters (KVA,P.F,KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic alumininum busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non gyroscopic supports such as CMC/BMC support with deteachable side covers and shall be suitable for extension on the sides.				
			The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grouting of the board as per directions of Engineer-in charge. All out goings of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm.Cubicletype switchboard shall be of cat A & B Only. CAT. B Cubicle Type				
24		PCR	Incoming - One (1) No 200Amp. TPN 1No.	Each	1	85000.00	85000.00
			Outgoing - 100 Amp TPN -1No., 63 Amp TPN -3No.				
25	PCR	PCR	Supply & fixing of 225/300mm sweep ventilating (Light Duty) exhaust fan complete with Metallic Blade (Steel bird guard protector /Copper motor for high air suction performance /Capacitor etc.), Noise level : (45 - 50) dB, Power consumption : 45 W, Rated voltage : 230 V, Rated frequency : 50 Hz, Motor type : Normal Speed. Complete in all respect.	Each	3	2050.00	6150.00
			Total				237680.32
			Say	Rs.	2.38		Lacs


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DETAILED ESTIMATE FOR REPAIR WORK OF BOUNDARY WALL

(FOR 6.00 RM LENGTH)

S.N.	DESCRIPTION OF ITEM	SCH. NO.	QUANTITY	UNIT	RATES	AMOUNT
					DSR*0.757*106/107	
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	15.56	5.31	SQM	54.65	40.98
						217.62
1	15 mm cement plaster in single coat on rough side of single or half brick wall for interior plastering up to floor two level including internal rounded angles not exceeding 80 mm in girth and finished even and smooth. (1) 1 cement : 6 coarse sand	13.5.2	5.31	SQM	395.35	296.48
						1574.32
2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.80	26.58	SQM	156.05	117.03
						3110.55
3	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	26.58	SQM	171.10	128.31
						3410.54
4	Painting or varnishing on iron work in small areas or new wood work with one coat of ready mixed priming paint & one coat of approved superior quality ready mixed paint of clear synthetic varnish including supply of all materials, labour and T & P etc. required for proper completion of work. Paint to be used should confirm to the I.S.I. No. 103 1950	13.62.1	5.40	SQM	226.25	169.67
						916.22
					TOTAL FOR 6.00 RM	
						9229.25
	HENCE FOR 1.00 RM	9229.25	/	6.00	=	1538.21
	TOTAL LENTH	304.58	X	1538.21	=	4.69


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**DETAILED ESTIMATE FOR PROPOSED REPAIR / RENOVATION WORK OF
GOVT. I.T.I. AT - MUHAMMADABAD GOHANA -DISTT. MAU (U.P.)**

ANALYSIS FOR 3*10+0.3+0.04 = 30.340 R.M. LENGTH (10 NO. PANELS)

**BOUNDARY WALL
ABSTRACT OF COST
BASED ON DSR 2023**

S.N.	DESCRIPTION OF ITEM	SCH. NO.	QTY	UNIT	RATES		AMOUNT
1	Clearing jungle including uprooting of tank vegetation, grass brass brush wood, trees and saplings of wirth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the preiphery of the area	2.31	182.04	Sqm.	DSR 2023 17.60	A*0.757* 106/107 13.20	2402.69
2	Excavation in foundation in ordinary soil (loam clay or sand) including lift upto 1.50 meter and lead upto 30 meter and including filling, watering and ramming of excavated earth into the trenches or into the space between the building and sides of foundation trenches or into the plinth and removal and disposal of sur-plus earth as directed by the Engineer incharge up to a distance of 30 meters from the foundation trenches.	2.8.1	19.480	CUM	260.30	195.21	3802.60
3	Providing and laying in position ready mixed or site batched design mix cementconcrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/ Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. Concrete of M10 grade with minimum cement content of 220 kg /cum	4.1.8	3.430	CUM	6812.00	5108.49	17522.12
4	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	5.3	10.360	CUM	11505.50	8628.26	89388.82
5	TMT Fe-500 or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	5.22.6	14.813	QTL.	10785.00	8087.94	119806.71

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6	Brick work with common burnt clay F.P.S. (non modular) bricks of class 150 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	6.1.1	2.120	CUM	7370.65	5527.44	11718.17
7	Brick work super-structure above plinth level up to floor two level (up to two storeys) including necessary cutting and moulding of brick work as required and also including honeycombed brick work in thickness of wall more than 12cms. (1:6 cement : coarse sand).	6.4.2	7.380	CUM	9105.95	6828.78	50396.41
8	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. (1)1 cement : 6 Coarse sand. 2.25 F.M.	13.4.2	142.330	SQM	343.65	257.71	36680.12
9	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	13.47.1	142.330	SQM	171.10	128.31	18262.68
10	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.80	142.330	SQM	156.05	117.03	16656.29
11	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	66.44	RM	78.40	58.79	3906.28
12	Providing and fixing M.S. Tubular frames for doors, windows, ventilators with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.						
	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 20 mm nominal size)	10.15.1	523.73	KG	172.6	129.44	67789.97
13	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	13.62.1	36.41	SQM	226.25	169.67	6177.37
14	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	5.9.1	15.610	SQM	392.15	294.08	4590.64
(b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	21.640	SQM	736.40	552.24	11950.58
(c)	Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	46.860	SQM	961.30	720.90	33781.52
					COST OF 30.34 RM		494832.97
					COST OF 1.0 RM	SAY RS.	16309.59 PER RM
	TOTAL QTY	368.46					


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ANALYSIS RATE FOR 3.00 Mtr. Long & 3.50 Mtr. Wide C.C. ROAD

S.N.	DESCRIPTION OF ITEM	NO	L	B	H	QTY	UNIT	RATE	AMOUNT	
1.	Preparation & consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber & consolidating with road roller including making good the undulations etc. & re-rolling the sub grade & disposal of surplus earth with lead upto 50 metres. (DSR - 16.1)							DSR*0.757*100/107		
		1	3.00	3.50		10.50				
					TOTAL	10.50	SQM	218.90	164.16	1723.67
2.	Earth work in excavation. (DSR 2.8.1)	2	3.00	0.380	0.300	0.68				
					TOTAL	0.68	CUM	260.30	195.21	133.52
3.	Providing and laying in cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) and curing complete, including cost of form- work, in foundation and floors. (DSR 4.1.8)									
		1	3.00	3.04	0.150	1.37				
		2	3.00	0.38	0.100	0.23				
					TOTAL	1.60	CUM	6812.00	5108.49	8153.15
4.	Laying C.C.Road slab consisting of 1:2:4 cement coarse sand & approved 20 mm Gauge stone ballast over prepared sub grade & including supply of all materials,labour and T & P etc. required for proper completion of work (DSR 4.1.2)	1	3.00	3.04	0.150	1.37	CUM	8340.85	6255.01	8556.86
5.	Providing and laying in position bitumen hot sealing compound for expansion joints etc. (DSR- 16.46.1) Using grade 'A' sealing compound.	1	3.50			3.50	RM	8.65	6.49	22.70
6.	B/W in Toe wall (1 cement :4 coarse sand) DSR 6.1.1	2	3.00	0.230	0.350	0.48	CUM	7370.65	5527.44	2669.75
								TOTAL		21259.65
	COST OF C.C. ROAD / SQM		21259.65	/		10.50	TOTAL			2024.73
	TOTAL QTY FOR C.C. ROAD 777.60									



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ANALYSIS OF RATE FOR DRAIN 300X450


S.No.	Description of Item	P.S.No.	Measurement			Qty.	Unit	Rate	Amount		
			No.	L (m)	B (m)				H/D (m)	10	11
1	2	3	4	5	6	7	8	9	10	11	
									DSR*0.757*106/107		
1	Earth work in excavation	2.8.1	1	1.000	0.910	0.550	0.501	Cum	260.30	195.21	97.70
2	P.C.C. 1:4:8	4.1.8	1	1.000	0.910	0.100	0.091	Cum	6812.00	5108.49	464.87
3	B/W in 1:4 Cement Coarse Sand	6.1.1	2	1.000	0.230	0.450	0.207	Cum	7370.65	5527.44	1144.18
4	12 MM thick plaster (1:3) coarse sand	13.4.1	2	1.000		0.450	0.900	Sqm.	267.99	200.97	180.87
			2	1.000		0.230	0.460	Sqm.	267.99	200.97	92.45
5	40 mm thick C.C. flooring	11.3.1	1	1.000	0.300		0.300	Sqm.	460.60	345.42	103.63
									GRAND TOTAL RS.		2084.00
	TOTAL DRAN QTY=420.50										


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Sl.No.	P.W.D.	Description of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)	
1	PCR	High Mast Pole (16mtr.) Supply and fixing of 16 mtr High mast Shaft of approved make with rising system, hot dip Galvanized inside & outside, having pole sheet thickness 3 mm Top dia minimum 150 mm, bottom dia minimum 360 mm, base plate 32 mm thick suitable for wind velocity as per IS 875 part 3 & having no circumferential weld, with accessories for high mast such as head frame suitable for 6 to 12 luminaires & its control gear boxes, 1.5 HP Power tool motor, 3 point suspension system with steel wire rope 6 mm dia, double drum winch. Including making suitable Foundation as per manufacture drawing & site requirement along with foundation bolts, nuts, washers, anchor plates etc. Complete in all respect as per direction and satisfaction to the Engineer-in-charge.	Each	1	231000.00	231000.00	
2	PCR	Supply and fixing of factory wired integral LED flood light luminaires with die cast aluminium housing built with driver set suitable for 170 to 200 Watt. Confirming to IP 66 protection complete in all respect. complete in all respect. CAT AAA	Each	8	22750.00	182000.00	
3	PCR	Cables/Gland/Lug Supplying and laying of aluminium conductor PVC insulated armoured served sheathed cable 1100 volts grade at the depth of 750 mm bellow ground level over a cushion of 75 mm thick sand all around and protected with burnt bricks on side and on top. On surface the cable run shall be fixed on MS clamps etc. of suitable size or as directed by the Engineer-Incharge, complete in all respect. The armouring of the cable shall be properly connected with the earth conductor by clamps etc. Following size					
	PCR	size 16 sq mm x 4 core	rmt	120	343.00	41160.00	
	PCR	size 35 sq mm x 3-1/2core	rmt	60	422.00	25320.00	
	PCR	size 70 sq mm x 3-1/2core	rmt	120	613.00	73560.00	
4	PCR	Supply and fixing of brass nickle plated compression gland for pvc insulated & armoured served sheaththed ,underground cable including rubber ring etc. complete in all respect. Thearmouring of the cable shall be properly connected with the earth as per direction of engineer -incharge for cable					
	PCR	size 16 sq mm x 4 core	each	8	87.00	696.00	
	PCR	size 35 sq mm x 3-1/2core	each	3	178.00	534.00	
	PCR	size 70 sq mm x 3-1/2core	each	2	199.00	398.00	
5	PCR	Supply and fixing of plain or pin type copper tin plated cable socket (lug) to cable leads for pvc insulated & armoured cable insulating with tape and making connection. complete in all respect as per direction of engineer -incharge. for cable					
	PCR	size 16 sq mm	each	32	21.00	672.00	
	PCR	size 35 sq mm	each	12	31.00	372.00	
	PCR	size 70 sq mm	each	8	67.00	536.00	
		Earthing Work					
6	5.4	DSR	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	1	5681.03	5681.03
7	5.9	DSR	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	15	109.48	1642.27
8	5.12	DSR	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required	Mtr	30	218.21	6546.26
9	14.13	DSR	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required.				
	14.13.3		100 mm dia	Mtr	15	1370.84	20562.56
		Pannel (for High Mast supply)					


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 निर्माण प्रखण्ड, मऊ।


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10		Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreis Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release) Switches Complete and instrument chamber etc complete in all respects. The instrument chamber shall be separate and shall comprise of flushtype digital metering system for phase to phase voltage and single phase voltage, current and other parameters (KVA, P.F, KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic alumininum busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/BMC support with deteachable side covers and shall be suitable for extension on the sides. The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc.				
		The Job includes the grouting of the board as per directions of Engineer-in-charge. All out goings of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. Cubicle type switchboard shall be of cat A & B Only.				
	PCR	Incoming :				
		100 Amp MCCB - 1 No				
	c)	Outgoing :				
		63 Amp MCCB - 3 No				
	ii)	Cat. B Pannel Cubicle Type	each	1	109943 00	109943.00
					TOTAL	700623.12


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[LANDSCAPING WORK]

ABSTRACT OF COST-DSR 2020 (HORTICULTURE & LANDSCAPING)

S.N.	DESCRIPTION OF ITEM	DSR NO.	NO.	L	B	H	QTY.	UNIT	RATES		AMOUNT
									(A)	A* 927/108/100	
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.										
2	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or / and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	2.31	1.00	50.00	1.00		50.00	SQM	280.30	255.78	12788.00
3	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	2.1	1.00	50.00	1.00	0.60	30.00	CUM	78.10	78.74	2302.28
4	Supplying and stacking well decomposed cow dung manure at site including royalty and carriage upto site (cow dung measured in stacked will be reduced by 8% for payment).	2.20	1.00	50.00	1.00	0.45	22.50	CUM	515.60	508.64	11399.37
5	Anti termite treatment of lawn area through premise 30.50% I.P. one liter premise diluted in 499 liters water and applying solution @ 1.00 litre solution per sqm lawn or bed area (two application) (c cost of chemical) and as per direction of officer-in-charge and as per direction of officer-in-charge.	CODE-303+Labour	1.00	50.00	1.00	0.15	7.50	CUM	75.00	73.70	552.72
	GRASS PLANTING WORK	2.56	1.00	50.00	1.00		50.00	SQM	7.55	7.42	370.94
6	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoother and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.	2.33	1.00	50.00	1.00		50.00	SQM	214.40	210.67	10533.69
	GROUND COVER/ PLANTING WORKS										
7	Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20%, one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed within a lead of 50 m, lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	2.13	1.00	20.00	1.50	0.45	13.50	CUM	222.85	218.98	2956.19
	SHRUB PLANTING WORKS										
8	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20%, 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately).	2.14	1.00	140.00			140.00	EACH	43.75	42.99	6018.55
1	Holes 60 cm dia. and 60 cm deep.										
1	Providing and stacking of Adansonia digitata (kaip vichhi) of ht 150-165 cm in bag size of 25 cm as per direction of the officer-in-charge.	7.2	1.00	80.00			80.00	EACH	265.00	260.39	20831.54
2	Providing and stacking of Alstonia scholaris (Chitvan) of height 150-165 cm in bag of size 25 cm as per direction of the officer-in-charge.	7.4	1.00	20.00			20.00	EACH	65.00	63.87	1277.41
3	Providing and stacking of Azadirachta indica (Neem) of height 120-150cm in big polybag of size 25 cm as per direction of the officer-in-charge.	7.5	1.00	25.00			25.00	EACH	65.00	63.87	1596.76
4	Providing and stacking of Bassia latifolia (Mahua) of height 90-105 cm in big polybag of size 25 cm as per direction of the officer-in-charge.	7.6	1.00	2.00			2.00	EACH	65.00	63.87	127.74
5	Providing and stacking of Plumeria alba dwarf dwarf of height 90-105 cm with 3-4 branches and thick stem in big size HDPE bags as per direction of the officer-in-charge.	7.71	1.00	20.00			20.00	EACH	750.00	736.97	14739.30
6	Providing and stacking of Polyalthia pendula (Ashok Pendula) of height 180-195 cm in gunny bag of size 30 cm as per direction of the officer-in-charge.	7.77	1.00	30.00			30.00	EACH	100.00	98.26	2947.86
7	Providing and stacking of Magnolia grandiflora of height 150-165 cm in big poly bag of size 25 cm as per direction of the officer-in-charge.										
8	Banyan tree	152	1.00	10.00			10.00	EACH	380.00	373.40	3733.96
9	King tree	153	1.00	17.00			17.00	EACH	250.00		4250.00
	Ground Covering Plants	154	1.00	11.00			11.00	EACH	300.00		3300.00
	G. TOTAL (D.S.R.-2020 HORTICULTURE)										99727.10

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