



JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI – 834002

AFF.NO.-3430004
 School No.:-08055
 Ph.:2411221, 2411665

जवाहर विद्या मंदिर, श्यामली, राँची ८३४००२

No. JVM/OT-13 /2024-25

Date: 05-03-2025

INVITATION TO TENDER

Principal, JVM invites tender for the subject given below. Salient feature are given in the table and detail of scope of work and tender conditions are given in the 'Invitation to tender' dated 05-03-2025 enclosed herewith.

Sub : Construction of Administrative Block near gate no. 3 at JVM Shyamali , Ranch

Salient Features of the Invitation to Tender

1	Tender Enquiry No. & Date	No. JVM/OT-13 /2024-25 Date: 05-03-2025
2	Project Description	Construction of Administrative Block near gate no. 3 at JVM Shyamali , Ranch Drg. MEC-11/48/9100/JVM/Admin/SK-01 Drg. MEC-11/48/9100/JVM/Admin/SK-02
3	Date of floating of on-line Tender	05-03-2025
4	Last date & time of submission of tender document	12-03-2025 by 01.00 PM
5	Date & Time of Opening of Tender	12-03-2025 at 04.00 PM .
6	Validity of tender	06 (Six) months from the date of opening of Techno-Commercial part of the tender document.
7	Project Completion Time	10 (Ten) months from the date of issue of work order.
8	Earnest Money Deposit	Rs. 4,40,000/- (Four lakhs Forty thousand Only)
9	Cost of the tender document	Rs. 2000/- (Two Thousand Only)

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 (SAMARJIT JANA)
 PRINCIPAL

Samarjit Jana
 Principal
 Jawahar Vidya Mandir
 Shyamali, Ranchi-2.
 Aff. No.- 3430004 (66230)



Part 1 of 46





Dated: 05-03-2025

INVITATION TO TENDER

Sub : Construction of Administrative Block near gate no. 3 at JVM Shyamali , Ranch

Sealed tenders are invited for **Construction of Administrative Block near gate no. 3 at JVM Shyamali , Ranchi**, as per the Technical Specification attached as, from experienced and eligible Contractor who have executed similar nature of work as per eligibility criteria and satisfying all the terms and conditions.

1.0 Instructions to Tenderer

- 1.1 Tenderers are advised to go through the entire documents completely before quoting for the tender.
- 1.2 Tenders are invited in a two bid system comprising of Part A- Techno-commercial Bid & Part B - Price Bid.

The 'Techno- commercial Bid' will be made and put in the first envelope containing the title '**Techno-Commercial Bid**'. This shall include full information as required in Techno Commercial Bid Declaration by the Bidder as per Annexure-I.

The 'Price Bid' will be made and put in the second envelope containing the title '**Price Bid**'. It shall include full information as required in price schedule format- Annexure II.

Both the bids shall be put in the third envelope which should be prominently super-scribed as "for **Construction of Administrative Block near gate no. 3 at JVM Shyamali , Ranchi,,**", and shall be submitted on or before **12.03.2025 till 1.00 PM**.

The scheduled time for opening of tenders shall be 4.00 PM on 12-03-2025.

- 1.3 Tenders received after due date and time mentioned above, as well as those received without separate sealed envelopes as specified above will not be accepted.
- 1.4 Incomplete tender in any respect or conditional tender will not be accepted.
- 1.5 The bidder shall submit all the pages of ITT documents duly signed and stamped.

2.0 Eligibility Criteria

Part A : Techno- Commercial Bid

2.1 TECHNICAL

Technical Eligibility Criteria for the above work shall be as follows:

The Bidder, as sole should have experience of having executed / completed similar works (as defined below) of the following magnitude during last 7 years ending on last day of the preceding month in which this tender is floated.

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2.. At least one completed similar work (as defined below) having value not less than
INR 2.50 Crores
OR

3.. At least two completed similar works (as defined below) having value not less than
INR 1.25 Lakh each.

OR

4. At least three completed similar works (as defined below) having value not less than
INR 90.00 Lakh each.

In case bidder has executed work of larger value in a longer duration, portion of work executed during qualifying period of last five years shall be considered. In case the work is in progress, value of work executed during the qualifying period shall be considered.

Definition of Similar work

Supply and Construction of RCC Framed Building including finishing work, sanitary and plumbing work, Electrical work and item rate basis in single work Order.

2.2 Documents to be submitted

The bidder shall submit self-attested copy of the following document issued by client:

1. Letter of award / Work Order.
2. Completion certificate indicating cost of executed work & scope of work (as mentioned in similar works) executed during the qualifying period.
3. In case of reference of an on- going work or work of longer duration, copy of certified and paid last RA bill / final bill shall be furnished with proof of certification / passing and payment by the client.

2.3 Financial Eligibility Criteria

2.3.1 The average annual financial turnover of the Bidder during last (3) three consecutive financial years ending 31st March 2024 shall not be less than Rs 2.50 crores.

2.3.2 ,Copy of Audited Annual Financial Reports for last 3 (three) consecutive financial years ending 31stMarch 2024 (Balance Sheet and Profit & Loss Account).

2.3.3 .Chartered Accountant's certificate with UDIN no., in Original, may be submitted to substantiate the above financial eligibility.

The documents furnished by Bidders for establishing their financial eligibility should clearly indicate the details of the Membership No., Firm No. of the Chartered Accountant.

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- 2.3.4 Chartered Accountant's certificate with UDIN no., in Original to be submitted by the bidder indicating the value of Existing commitments as on 31.03.2024 including on-going pending works i.e balance work to be done as on 31.03.2024 as well as the stipulated period of completion remaining for each of the works as per work order and in case of extension provided the extended completion date also.

The documents furnished by Bidders for establishing their financial eligibility should clearly indicate the details of the Membership No., Firm No. of the Chartered Accountant.

2.4 Commercial:

The bidder shall submit self-attested copies of the following:

1. Cover letter of Tender detailing list of contents in the bid document being submitted by the Bidder.
2. Un-priced Price schedule as per format enclosed with tender document indicating 'quoted' in price column.
3. Signed & Stamped copy of terms and conditions of the contract
4. Copy of GST Registration Certificate with valid GST registration no. and PAN details
5. Bidder must be registered in PF and ESIC, and also to submit proof of remittance proceedings last two months..

2.5 Earnest Money Deposit:

All the tenders shall be accompanied by EMD (Earnest money deposit) of Rs. 4,40,000/- (Rs Four lakhs forty thousand only) payable to 'Jawahar Vidya Mandir, Shyamali Ranchi' in the form of demand draft.

Tenders received without EMD are liable to be rejected. EMD shall be refunded to successful bidder after execution of work and to unsuccessful bidder after finalization of work order.

2.6 Cost of the Tender:

The Bidder shall submit a non-refundable cost of the tender- **Rs.2000/- (Two thousand only)** in the form of a Demand draft drawn on any Nationalized/ Schedule Bank in favour of 'Jawahar Vidya Mandir, Shyamali Ranchi'.

PART B: Price Part

2.7 Price Schedule:

- a. Bidder shall submit their Price bid strictly as per the Price Schedule Format- Annexure II provided along-with this bid document. Price submitted by Bidder in any other format shall render their offer invalid and shall not be considered for evaluation.
- b. There shall be no change or addition/ deletion except for filling-up of the actual price/ rate in the Price part submitted in Part – B
- c. Price part shall contain rate and cost against all items of BOQ and total cost indicating incidence of tax (rates), if any, as per enclosed price format without any terms & conditions.

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- d. Any change in Price Schedule format shall be notified through corrigendum/addendum and the same shall be considered for submission of price bid. In case Bidders have already submitted their bid before publishing of corrigendum/addendum related to change in price schedule format, the bidders are requested to re-submit price bid as per the changed Price Schedule format. Failure to re-submit the bid in such case may lead to auto rejection of the bid by the system.
- e. Bidder must quote against all the items in Price Schedule enclosed with this tender. Part quotation (Part Order) is not acceptable for this package.

The bidder shall quote increment/ decrement percentage (%) on the declared estimated total basic price given in the Price Schedule of the tender. The increment/ decrement percentage (%) indicated above shall be equally applicable on all the items of Price Schedule. In case bidders indicate "No Change", price against all the individual items as indicated in the Price Schedule shall remain unaltered

- f. In case of Tie among lowest bidders, the L-1 bidder shall be decided through lottery among all the bidders whose quoted price is lowest. Decision of tendering authority shall be final & binding to all parties

IF A FIRM FILING TENDER DOES NOT FULFILS ALL OR ANY OF THE ABOVE ELIGIBILITY CRITERIA MENTIONED ABOVE, THE TENDER OF THE FIRM WILL NOT BE CONSIDERED.

3.0 SCOPE OF WORK:

Sl. No.	Description	Type &Quantity
1	Construction of Administrative Block near gate no. 3 at JVM Shyamali , Ranchi	As per items described and listed in the enclosed Bill of Quantity (BOQ) and as per the enclosed tender drawing. Drg. MEC-11/48/9100/JVM/Admin/SK-01 Drg. MEC-11/48/9100/JVM/Admin/SK-02

The **Construction of Administrative Block near gate no. 3 at JVM Shyamali , Ranchi.** shall be carried out as per CPWD specifications. Civil, Electrical and Sanitary-Plumbing works complete in all respect as per Construction Drawings and items mentioned in the BOQ.

4.0 PRICE

The Tenderer shall quote for the items indicated above on for JVM, Shyamali, Ranchi basis. The quoted price shall be firm and binding and shall not be subject to any variation whatsoever on any account till completion of supply. All applicable taxes & duties shall be indicated separately. (Un-priced copy of Price Bid indicating "quoted" against each item should be submitted along with Techno-commercial bid).

5.0 TAXES & DUTIES

Except as otherwise specifically provided in the order, the Tenderer shall bear and pay all taxes, duties, levies as charges for the subject work.



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6.0 VALIDITY OF RATES

The rate quoted by the Tenderer shall remain valid for a period of 6 (Six) months from the date of opening of quotation.

7.0 TIME SCHEDULE

The successful Tenderer shall be required to complete the job within 10 (Ten) months from the date of receipt of order.

8.0 PAYMENT TERMS (as per SCC)

The payment shall be released on submission of R.A Bill by Contractor duly certified by Supervisor / Engineer in-charge of JVM Shyamali.

9.0 INSPECTION:

The inspection of materials shall be carried out by JVM after receipt of materials at construction site.

In the event the supplied material is not conforming to the ordering specification and Preferred make / brand, the material so supplied will be rejected without paying any price/ compensation. The decision of Engineer in-charge, JVM in this regard will be final.

10.0 LIQUIDATED DAMAGES:

Time and date stipulated in the Contract for completion of delivery shall be deemed to be the important activity of the Contract. If, however, the Tenderer fails to fulfill the completion within the time schedule, or within such extended time schedule as may be further granted, the Tenderer shall be liable to pay as Liquidated Damages (LD) and by not way of penalty a sum of 0.5% of the contract price per week of delay or part thereof, and such liquidated damages shall be limited to a maximum ceiling of 5% of the Contract Price.

11.0 ACCEPTANCE OF ORDER:

JVM is not bound to accept lowest or any tender or to assign reasons whatsoever for non-acceptance. JVM also reserves the right to cancel the tender without assigning any reason whatsoever.

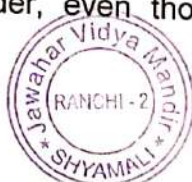
12.0 EVALUATION OF TENDER:

Tenderer should quote for all the items as per enclosed price bid format (Annexure-I). Part offer or incomplete offer shall be liable to be rejected. Price of the techno-commercially eligible tenderer shall be evaluated on overall basis.

13.0 NO CLAIM OR COMPENSATION FOR SUBMISSION OF TENDER:

The Tenderer whose Tender is not accepted shall not be entitled to claim any costs, charges, expenses of and incidental to or incurred by him through or in connection with his submission of Tender, even though JVM may elect to withdraw the Invitation of Tender.

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14.0 TRANSIT INSURANCE:

Tenderer shall arrange transit insurance on his own and at his own cost for transportation of material and equipment to JVM, Ranchi.

15.0 NEGLIGENCE, DEFAULT AND RISK PURCHASE:

If the Tenderer fails to execute the work with due diligence or expedition or shall refuse or neglect to comply with any order given to him in writing by JVM in Contract, JVM may give notice in writing to the Tenderer calling upon him to make good the failure, neglect or contravention within such time as may be deemed reasonable and in default of the compliance with the said notice, JVM without prejudice to its rights under the Contract, may rescind or cancel the Contract holding the Tenderer liable for the damages that JVM may sustain in this regard.

16.0 SUSPENSION AND TERMINATION

JVM may at any time temporarily stop the work under the Contract or any part thereof by serving notice in writing to the Tenderer. Work so suspended shall be resumed by the Tenderer on receipt of instructions from JVM in writing. JVM will not be liable to the Tenderer for any damage or loss caused by such period of suspension of work. JVM will be at liberty to terminate the Contract without prejudicing its right and affecting the obligations of the Tenderer by giving 15 days' notice in writing in case when a) If the Tenderer fails to comply with the provisions of the Contract and b) If the Tenderer is involved in any action involving moral turpitude.

17.0 ARBITRATION

Any disputes, differences, whatsoever, arising between the parties, the arbitration shall be governed and regulated in all respect according to Laws of India. The Arbitration proceedings in case of other Indian companies shall be regulated and governed by Indian Arbitration and Conciliation Act 1996, or such modification thereof. The venue of arbitration proceeding shall be Ranchi. Work under this Order shall be continued by the Tenderer during the arbitration proceedings, unless otherwise directed in writing by PURCHASER or unless matter is such that the work cannot possibly be continued until the decision of the arbitrator is obtained. The tenderers are requested to confirm acceptance of all terms & conditions as per tender enquiry.

18.0 EXTRA ITEM

It is compulsory on the part of the Tenderer to execute any number of items which are not mentioned in the Bill of quantities but are necessary to execute the work in totality.

In case of above, Tenderer shall obtain prior permission from Engineer in charge, JVM for procurement and execution of such items.

Rates of such items shall be fixed as per following.

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- a) Where the extra work are of similar character or executed under similar conditions as any of work appearing in the Bill of quantities, then the rates for such items shall be derived from the contract rates of similar / closest item of work.
- b) Where the nature of extra work is such that the rate for the same cannot be derived as per above method then the rate shall be as per CPWD Schedule of rates (latest version) applicable to the contract plus minus tendered percentage, where appropriate.
- c) However if the nature of extra work is such that the rates cannot be derived from above said both the methods. Then Rate analysis as per market rates shall be done with applicable overheads & Contractor profit as per CPWD norms.

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(SAMARJIT JANA)
JVM, PRINCIPAL





GENERAL CONDITION OF CONTRACT (G.C.C.)

1. scope of work shall include all workers, suppliers and services for completion of entire work .
2. The contractor shall have own site office, stores, godown as may required for carrying out the subject work.
3. Provision of all labours, skilled, semi-skilled, as may be required to complete the work.
4. Providing adequate tools, instruments, tackles, scaffolding etc. for completion of entire work.
5. Procurement of all the materials, as may be required for carrying out the work.
Abide by statutory regulations, labours rules, safety codes during execution of work.
6. Abiding by all statutory obligations including ESI, EPF etc . during execution of work and shall submit all evidence in this respect such as ESI, EPF certificates and minimum wage certificate along with each and every bill.
7. Contractor shall make arrangement at his own cost for drawing and distributing water and power from single point each where water and power will be provided by JVM free of cost.
8. worker engaged by agency will not have any claim for payment employment in JVM. The age limit of worker shall be between 19 yrs. and 60 yrs.
9. Rate of wage shall not be less than the minimum wages plus prevailing percentage of EPF, FP, ESI, EDLI, Bonus etc. as required under the law.
10. Agency shall ensure fulfillment of al labour regulations/rules under the Labour Act and all other statutory requirement of Government of India and Government of Jharkhand.
11. Monthly bill based on actual deployment of worker shall be submitted by Agency statutory payment) viz. EPF, FP, ESI,EDLI, bonus etc.) including taxes payable if any.
12. Unit rates of all the items shall remain firm, fixed and binding on the contractor during entire period of execution of work and shall not be subjected to any variation whatsoever on any account.
13. This being a unit rate contract, the payment shall however be released against actual quotations of work however be released against actual quantities of work executed duly certified by the JVM.
14. Unless otherwise specified, measurement of work shall be carried out at site jointly by JVM & Contractor.
15. The contractor shall not sublet / sub contract the whole or any part of work failing which the contract may be terminated.
16. No completion certificate shall be issued or shall be work be considered to be complete until the contractor removes from the site all scaffolding, surplus materials, rubbish etc.
17. Defect Liability Period: The contractor guarantees that for a period of 6 (six) months commencing from the date of completion. He shall undertake reconstruction rectification, replacement of all regular schedule work and any other work to make good the faulty work as stated by JVM for period of 06 (six) months from the date of issue of Completion certificate.
18. The contractor shall have a valid labour license and shall also maintain al records/ register/return/cards under state contract labour (R&A) rules act such as :-
 - i) Register of workmen employed by contractor : Form - 9
 - ii) Employment card : Form – 10
 - iii) Muster roll : Form - 12
 - iv) Register of wages-cum-muster roll : Form - 13
 - v) Wage slip : Form – 15
 - vi) Register of over time : Form – 19
 - vii) Submission of Return in Form – 20
19. JVM also reserves the right to cancel the tender without assigning any reasons for the same. In such event JVM shall return the Earnest money deposit.

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Special condition of contract (S.C.C.)

1. This being a Rate Contract, the quantities of item given in BOQ are approximate and subject to vary to any extent and shall not form a basis of dispute for the rates to be paid or to raise any claim for compensation on any account.
2. The building regulations of the safety code shall have to be strictly followed by the contractors.
3. Terms of payment: 95% value bill / ax invoice shall be paid within (15) fifteen days after completion of work on submission of correct and complete certified document as mentioned below. Contractor shall submit Bill in triplicate along with measurement sheet/ abstract of the quantity being executed by the contractor at site, Income Tax Registration no. (PAN) and GST regn. no. Invoice shall be raised per per GST rules

Document to be submitted alongwith tax invoice:

- i. Measurement sheet duly signed by Contractor and certified by JVM site engineer/JVM representative and concerned engineer.
- ii. Abstract of measurement sheet and work done till previous bill, the running and cumulative quantities certified by JVM site representative and concerned engineer.
- iii. Documentary evidence towards payment of ESI, EPF etc. as per statute.
- iv. Abstract sheet for ESI & EPF
- v. Wage sheet
- vi. Undertaking that Contractor has complied with all statutory requirements as per Order during the period for which the progress payment has been claimed

GST shall be released only on submission of related statutory GST return and deposition of GST to exchequer.

4. Work measurement sheet should be on printed form/letter head of the contractor duly signed and stamped by the contractor and certified by JVM site engineer.
5. T.D.S. will be affected from all payments as per prevailing rules.
6. 5% (five percent) work value shall be paid after completion of warranty period/ maintenance guarantee period (6 months)and submission of pre-receipted invoice and completion of all his contractual certified by JVM along with submission of following documents :-
 - a) Completion certificate issued by JVM – original
 - b) No dues certificate from JVM
 - c) No claim/no demand certificate by the contractor – original
 - d) Copies of all statutory documents to be provided by the contractor as required by JVM
7. JVM shall deduct taxes at source as per prevailing status from the payment to be made to the contractor. JVM shall deposit amount thus deducted with the concerned authorities and issue necessary certificates to the contractor to this effect.

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APPROVED MAKE LIST

List of Preferred makes (Architectural finishing and Sanitary Plumbing works)

The makes and manufacturers shall be from the following list, In case, the same is not available in the market or in case of a change in trade name, equivalent makes/ re-designated manufacturer shall be used with prior approval of Engineer In charge.

Sl. No.	MATERIALS	MANUFACTURERS
A	FLOORING	
1	Vitrified/ Ceramic Tiles	: Kajaria, RAK, Johnson, Orient –Bell, AGL.
2.	Cement Concrete tiles	: Nitco, Tile Italia, Ultra, Stone Crate, Duracrut, Eurocone.
3	Acid Alkali Proof lining / tiles	: Coromandel Prodorite, Kothari Corrossion Controllers, Restile, Johnson(Endura), Good Earth.
5.	False flooring	: Unitile, Cani-Microtac, Hyderabad Industries Ltd.
6.	PVC Flooring/ Vinyl Flooring	: Premier Vinyl Flooring, Responsive Flooring Bhor, Armstrong, Polyfloor, Wonderfloor.
7.	Glass Mosaic Tiles	: Italice, Bisazza. Palladio.
8.	Antistatic Epoxy Floor	: Pidilite, Fosroc, Beck, STP, Degussa, Huntsman, Sika, HSW
9.	Epoxy Coating	: Ardex, Pidilite, Fosroc, Sika, Asian Paints, Huntsman, Degussa, HSW.
10.	Polyurethane Flooring	: Pidilite, Fosroc, Sika, Flowcrete India Pvt. Ltd.
11.	Anti-Bacterial/Anti-Fungal Flooring	: Fosroc, MYK Scomburg India Pvt. Ltd, Flowcrete India Pvt. Ltd.
12.	Wooden Flooring	: Greenlam, Lamiwood Floors, Lord Parquet.
B	WOOD WORKS.	
1.	Laminates	: Greenlam, Century, Durian Merino, Royal Touche, Signature.
2.	Ply Board	: Greenply, Kitply, Centuryply, Sylvan .
3.	Flush Door Shutters / Paneled door Shutters.	: Kitply, Novopan, Green Ply, Kutty Flush Doors, Anchor, Anand.
4.	Pre-laminated MDF Board	: Mangalam Timber (Dura Tuff), Century .
5.	Dry wall partition	: Saint-gobain(Gyproc), USG BORAL or approved equivalent make
C.	STEEL WORKS.	
1.	Dash-Fasteners/Anchor bolts.	: Hilti, Fischer, Bosch.



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Sl. No.	MATERIALS	MANUFACTURERS
2.	Stainless Steel Pipes/Flats	Jindal, Salem Steel.
D.	ALUMINIUM WORKS.	
1.	Aluminium Sections and fittings.	: Hindalco, Jindal, Indal, Boruka.
2.	Aluminium Composite Panel	: Alstrong, Alpolico, Alucobond, Aludecor.
3.	E.P.D.M. Gaskets	: Anand Reddiplex, Enviro Seals or approved equivalent make.
E.	FITTINGS & FIXTURES	
1.	Doors & Windows Fixtures / Fittings	: Everite, Hardwyn, Garnish, Jyothi, Godrej & Boyce, Hafele
2.	Stainless Steel handles, butt hinges (with and without ball bearings), Floor stoppers, Cabinet handles, knobs	: Kich, Arch, Neki, Dorma, Hafele.
3.	Stainless Steel Tower bolts, Sliding Bolts	: Garg, Arch, Kich, Dorma, Hafele.
4.	Door Closer	: Everite, Hardwyn, Dorma, Hafele, Assa Abbloy, Doorset.
5.	Floor spring	: Everite, Hardwyn, Dorma, Hafele, Assa Abbloy, Ingersol Rand.
6.	Door Locks	: Godrej, Hafele, Dorma, Assa Abbloy, Ingersol Rand.
7.	Lever Handles	: Hafele, Dorma, Assa Abbloy, Ingersol Rand.
8.	Door Knobs	: Hafele, Dorma, Assa Abbloy, Ingersol Rand.
9.	Pull Handles	: Hafele, Dorma, Assa Abbloy, Ingersol Rand.
10.	Electromagnetic Locks	: Hafele, Dorma, Assa Abbloy, Ingersol Rand.
11.	Swing Door Operators	: Hafele, Dorma, Assa Abbloy, Ingersol Rand.
12.	Patch Fittings, Point Fittings, Bolted Systems	: Hafele, Dorma, D-Line.
13.	Stainless Steel Friction Stay	: Securistyle, Hafele, Dorma, Hetich, Arch, Kich.
14.	Stainless Steel Handrails, Balustrade	: Kich, Ozone, Arch.
15.	Aluminium Louvers	Renson, Hunter Douglas.
F	PVC/FRP DOORS	
1.	PVC Doors	: Accucel, Thermodeck, Rajshree, Supreme, Sintex.
2.	FRP Doors	: Duroplast, Omega-Fibres, Sintex.
3.	UPVC Doors/Windows	Fenesta, Duroplast, NCL Veka, Rehau.
G	PAINTING WORKS	



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Sl. No.	MATERIALS	MANUFACTURERS
1.	Enamel Paints	: AsianPaints, Nerolac, Akzonobel, Berger, Jotun.
2.	Distemper	: AsianPaints, Nerolac, Akzonobel, Berger.
3.	Cement Paint	: Snowcem, Berger, Nerolac, Akzonobel.
4.	Emulsion Paint	: Asianpaints, Berger, Nerolac, Akzonobel, Jotun.
6.	Epoxy Paint	: Kansai Nerolac, Asian Paints, Roto Polymer and Chemicals, Avcon Technics Pvt. Ltd., Huntsman
7.	Wall Putty	: Birla White, JK, Laticrete, Sika
8.	Metal, Wood and Cement Primers	: Asianpaints, Berger, Nerolac, Akzonobel, Jotun.
9.	Epoxy Primer	: Pidilite, MRF, Sika.
10.	Texture Paint	: Nerotex, AsianPaints, Akzonobel, Berger, Jotun, Renova, Architextures.
11.	Aluminium Paint	: Asianpaints, Berger, Nerolac.
H	GLASS WORKS	
1.	Clear Float Glass/ Toughened Glass/ Reflective Glass.	: Saint Gobain, Asahi, Modiguard, Pilkington
I	FALSE CEILING WORKS	
1.	Gypsum False ceiling	: India Gypsum, USG Boral, Saint Gobain.
2.	Metal False ceiling	: Hunter Douglas (Luxalon), Armstong.
3.	Calcium Silicate Board/Tile.	: Aerolite, Ramco-Hylux, Metroc.
4.	Mineral Fibre Tiles.	: AMF, Armstrong.
J.	SEALANTS	
1.	Polysulphide sealant	: Pidilite, Fosroc, Sikka.
2.	Silicone Sealant.	: Dowsil, GE-Silicon, Pidilite, Fosroc.
K.	MISCELLANEOUS	
1.	Boom Barrier	: Gandhi Automation, Gate Automation India, Neptune Automatic Pvt. Ltd., Somfy India
2.	Exteriorgrade Laminates	: Fundermax, Visaka, Greenlam.
K.	SANITARY AND PLUMBING	
1.	Vitreous China Sanitary Fixtures.	: Hindware, Parryware, Jaquar, Kohler, Cera.
2.	White Glazed Fire Clay Sink.	: Hindware, Cera, Neycer, Sanfire.
3.	Stainless steel sink.	: Nirali, Orient Bell, Neelkanth, AMC.
4.	Plastic Seat Cover of EWC.	: Cera, Sona, Diplomat, Geberit, Bestolite.
5.	C.P brass	: Jaquar, Kohler, Cera, Marc.



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JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI - 834002

AFF.NO.-3430004
School No.: -08055
Ph.:2411221, 2411665

जवाहर विद्या मंदिर, श्यामली, राँची वृ ८३४००२

Sl. No.	MATERIALS	MANUFACTURERS
	Fittings, Valves and accessories.	
6.	Centrifugally/Sand cast iron pipes, fittings & fixtures (IS 3989/1729)	R.I.F, J.NECO, B.I.C, S.K.F.
7.	G.I. Pipes.	TATA, Jindal.
8.	G.I. Fittings and accessories.	Unik, K.S, Zoloto.
9.	UPVC/HDPE Pipes & fittings.	Supreme, Finolex, Prince, Kitec, Oriplast, Polyfab.
10.	Gunmetal Valves	Zoloto, Leader, Sant, Kilburn, Neta.
11.	Gunmetal Valves	Zoloto, Leader, Sant, Kilburn, Neta.
12.	Ball valve with floats.	Zoloto, Leader, Sant, Jayco.
13.	PVC Water Tank	Sintex, Polycon, Infra.
14.	Mirror	Atul, Modi Guard, Saint Gobain
15.	Hand Drier	Kopal, Automat, Euronics.
16.	PVC Flushing Cistern	Hindware, Parryware, Commander, Duralite.
17.	C.I. Manhole covers	RIF,NECO,B.C, B.I.C
18.	Liquid Soap Container	Hindware, Jaquar, Prayag.

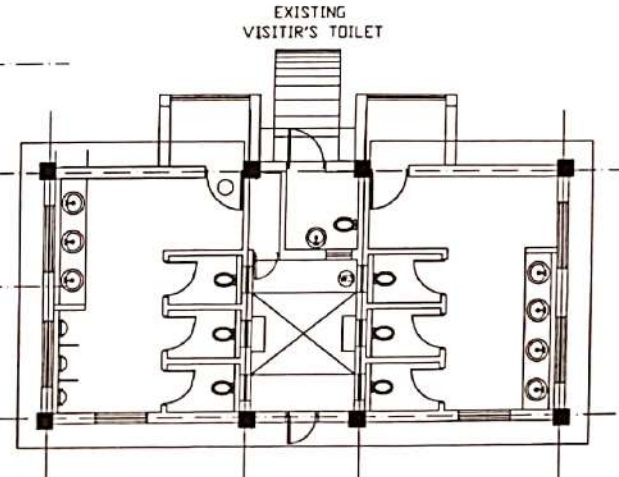
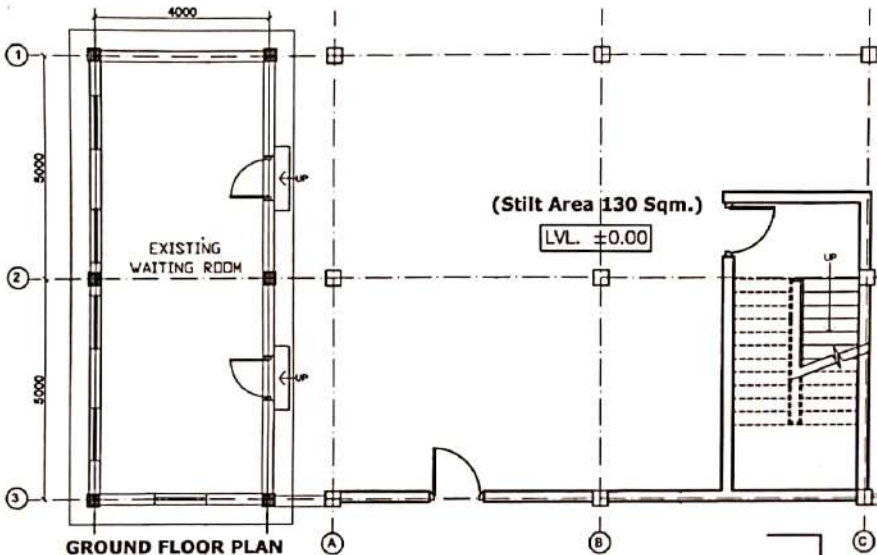
In case of items not covered in the above list, the material shall be procured after approval of Engineer in charge, JVM as per the standard material available in the market and having BIS certification mark.

Samarjit Jana
05/03/2025
(SAMARJIT JANA)
JVM, PRINCIPAL

Samarjit Jana
Principal
Jawahar Vidya Mandir
Shyamali, Ranchi-2.
Aff. No.- 3430004 (66230)

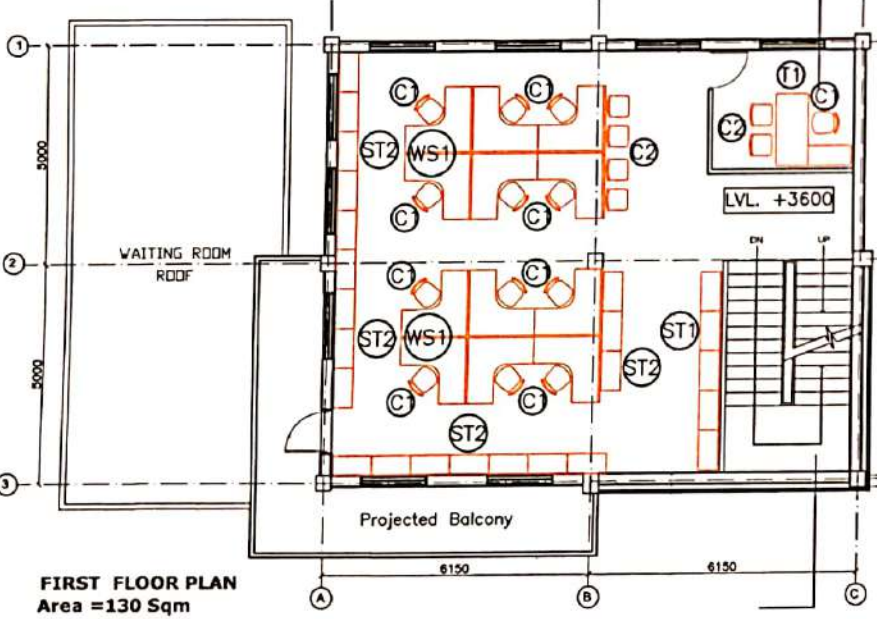


DRG.No.MEC/11/48/9100/AM/ADMIN/SK-01



FURNITURE SCHEDULE

- (WS1) Six Person module (1500 X1500) work station as/spec.
- (T1) AGM Cabin Table as/spec.
- (C1) Work Station/ AGM chair as/spec.
- (C2) Vistor Chair as/spec.
- (ST1) Medium height storage unit as/spec.
- (ST2) Low height storage unit as/spec.



TENDER ONLY



JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI



मेकॉन लिमिटेड
MECCON LIMITED

SECTION	ARCHITECTURE	ADMIN BUILDING
LOCATION	RANCHI	
DESIGNED	U.C.	GROUND FLOOR PLAN FIRST FLOOR PLAN
DRAWN	U.C.	
CHECKED AND VERIFIED	S.D.	SCALE - 1:100 DRG.No.MEC/11/48/9100/AM/ADMIN/SK-01
APPROVED	SIG.	
DATE: 30.01.2023		SHEET 1 OF 1

NOTES:
1. All dimensions and Levels are in millimeters.
2. Location of the building is tentative, shall suit on/after.

REV.	NO.	DATE	ZONE	DESCRIPTION	BY	VERIFIED

DRG. NO. REFERENCES
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Construction of Administrative Block near gate no.3 at JVM Shyamali, Ranchi

**BOQ FOR ADMIN BUILDING , JVM SHYAMALI, RANCHI
(CIVIL)**

SL. NO.	ITEM DESCRIPTION	Unit	Quantity	BASE Rate (Excluding 18% GST)	Amount (Without GST)
EW-1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
	All kinds of soil	sqm	220	28.94	
EW-2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over all areas including disposal of excavated earth, lead upto 50 m and lift upto 1.5m, disposed earth to be levelled and neatly dressed All kinds of soil. (The measurement for payment shall be for the theoretical excavation volume only as per drawing i.e. for the volume of the block of the excava-tion having the depth and maximum bottom dimensions of the foundation/structures as per drawing). The contractor shall take into account in his rate the provision for any excess excavation for necessary working space, steps, sloping etc required for excavation safety and other allied works and refilling the side slopes/working space etc.).				
	All kinds of soil	cum	500.00	110.04	
EW-3	Same as per Item EW-2 above, but for depth greater than 1.5 M upto 3.00 M (Payment upto 1.5 M depth shall be made under Item EW-2).				
		cum	150.00	217.50	
EW-4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.				
		cum	390.00	166.10	

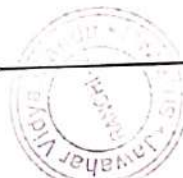


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EW-5	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete	cum	10.00	593.64
EW-6	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	20.00	1799.79
EW-7	Disposal of surplus excavated material for a lead beyond 50m but upto 10 km including loading and unloading.	cum	200	418.73
CC-1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :			
a)	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	35.00	5772.88
b)	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) (below flooring/ grade slab)	cum	15.00	6181.95
CC-2	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge	sqm	200	1330.51
CC-3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth: 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)	cum	160.00	7665.89



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CC-4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :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)	cum	220.00	9197.42
CC-5	Centering and shuttering including strutting, propping etc. and removal of form for			0.00
a)	Foundations, footings, bases of columns, etc.	sqm	200.00	332.33
b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	800.00	624.07
c)	Suspended floors, roofs, landings, balconies and access	sqm	600.00	785.81
	column above plinth beam	sqm	225.00	814.66
d)	Stairs (excluding landings)	sqm	75.00	648.26
MN-1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	35.00	6246.31
MN-2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	250.00	7918.94
MN-3	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	45	952.37
STR-1	Supplying, fabricating and fixing in position steel reinforcement at all levels and positions including the cost of steel, transportation, straightening, cutting, bending, cranking, binding, welding etc. as per drawings and specifications, including cost of binding wire labour etc., all complete, for reinforced concrete and reinforced brick work and any other place as specified. (Payment will be made on the basis of standard weight per metre length of the bar).			



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a)	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	38000.00	91.40	
FN-1	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.				
	For the purpose of measurement the entire treated surface will be measured. sqm	sqm	200.00	583.81	
FN-2	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :				
	(i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
	(ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				



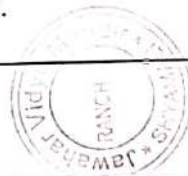
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	(iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.				
	(iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sq.m	10	652.20	
DD-1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	cum	5.00	1745.93	
DD-2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	5.00	1274.24	
DD-3	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge : In cement mortar	cum	5.00	2083.86	
	Total				

Architectural Works

Item no.	Description	Unit	Qty.		
FINISHING					
FN-1	Providing and applying 12 mm cement plaster of mix 1 : 4 (1 cement : 4 fine sand)	sqm	400	294.61	
FN-2	Providing and applying 6 mm cement plaster of mix 1 : 3 (1 cement : 3 fine sand)	sqm	300	255.05	
FN-3	Providing and applying 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand). Finished course rough with sponge.	sqm	600	456.24	



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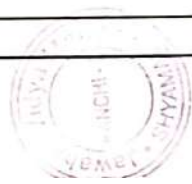
FN-4	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	400	132.47
FN-5	Wall painting with acrylic emulsion paint , having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.			
	Two coats.	sqm	700	116.68
FN-6	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :			
	Two or more coats on new work	sqm	50	192.06
FN-7	Applying priming coats with primer of approved brand and manufacture, having low VOC((Volatile Organic Compound) content.			
	(a) With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams / litre	sqm	50	59.72
	c) With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	sqm	700	62.78
FN-8	Applying priming coat: With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	sqm	10	57.22
FN-9	Providing and applying "Ultima Protek" exterior grade pure acrylic emulsion paint of 3 different shades of Asian make or equivalent other make as specified in preferred make list. SHADES FROM ASIAN PAINTS COLOUR COSMOS. 1. Shade no. 8085 (Scarlet) page no. 256 2. Shade no. X110 (Orange Vision) page no. 259 3. Shade no. 7920 (Yellow metal) page no. 126 As per colour scheme drawing			



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	New Work (Two or more coat applied @ 1.7 lit/10 sqm over and including primer coat of ultima protek base coat applied @2.5 lit/10 sqm) having CBA upto 2mm having anticarbonation property.	sqm	600	186.76
FLOORING				
FL-1	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm 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. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.			
	Double charge vitrified tile polished finish. Size of Tile 800 x 800 mm	sqm	300	1302.93
FL-2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels			
	Granite of any colour and shade			
	Area of slab upto 0.50 sqm	sqm	125	4595.52



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FL-3	Kota stone slab flooring over 20 mm (average) 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)				
	25 mm thick.	sqm	100	1653.87	
FL-4	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.				
	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	200	926.57	
WOOD AND PVC WORK					
WW-1	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	10	2948.95	
WW-2	Providing and fixing aluminium sliding door bolts ISI marked anodized (anodic coating not less than grade AC10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc. complete.				
	250x16 mm	each	5	221.22	



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WW-3	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete.				
	250 x 10 mm	each	5	97.75	
WW-4	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete.				
	a) 125 mm	each	10	56.24	
WW-5	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS :3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 m to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete	each	5	834.60	
STEEL WORKS					
ST-1	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
	Profile B				
	Fixing with adjustable lugs with split end tail to each jamb	metre	20	495.16	



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ST-2	<p>Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge.(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).</p>	Kg	700	655.69	
ALUMINIUM & GLAZING WORKS					
AL-1	<p>Providing and fixing factory made uPVC glazed/wire mesh windows/doors comprising of lead free uPVC multi chambered frame. Sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2. profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforcement with galvanized mild steel section made of require shape & size as per CPWD Specification, uPVC extruded glazing beds, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and</p>				
	<p>necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) sealed at all corners. Including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame at adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of Steel reinforcement and cross sections of uPVC profile to be as per design approved by Engineer-in-Charge.</p>				



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	Wire mesh / Gazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately.				
	Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for : (i) Sites with basic wind speed > 45 m/sec as per IS 875 - Part 3 (ii) Sites with structure height more than 20m for all wind speeds				
	Two track two panels sliding window with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body. Using R3 series with frame (55 mm & above) x (40 mm & above) & sash (30 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated touch locks with hook (Height upto 1.8m).	Sqm	50	7469.68	
AL-2	Providing and fixing glazing in Aluminium door,window,ventilator shutters and partitions etc. with EPDM rubber/neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer in charge.				
	With float glass panes of 5 mm thickness (wt. not less than 12.50 kg/sqm)	sqm	50	1277.81	
AL-3	Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel				

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	<p>of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/ beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using astener & anchor bolts, non staining weather sealants of approved make. Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings.</p>				
	<p>The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured.</p>	Sqm	150	8066.54	
AL-4	<p>Supply & Fixing of fully glazed double swing door with 12mm thick toughened glass using patch fitting at top and bottom with necessary accessories such as floor spring, lock, handle, locking arrangement etc of Dorma/Kanz or equivalent make complete and as per approved drawing of the Architect / Consultant</p>	Sqm	5	9168.12	



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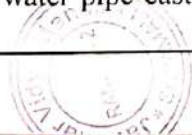
AL-5	<p>Providing and fixing partitioning upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/roll from G.I. sheet with zinc coating of 120 gms/sqm (both side inclusive), consisting of floor and ceiling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to</p>				
	<p>wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing comound, jointing tape, angle beads at corners (25mm x 25 mm x 0.5mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.</p>				
	<p>75 mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum plaster board conforming to IS: 2095: (part I): 2011 (Board with BIS certification marks)</p>	Sqm	50	1543.43	
ROOF WORKS					



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RF-1	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.				
	110 mm diameter	metre	70	320.37	
RF-2	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.				
	a. Coupler				
	110 mm	EACH	10	115.58	
	b. Single pushfit Coupler				
	110 mm	EACH	10	108.32	
	c. Single tee with Door				
	110x110x110 mm	EACH	10	198.77	
	d. Single tee without Door				
	110x110x110 mm	EACH	10	187.90	
	e. Bend 87.5°				
	110 mm bend	EACH	10	127.63	
	f. Shoe (Plain)				
	110 mm shoe	EACH	10	111.93	
RF-3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm 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.				
	110 mm	EACH	20	315.20	
RF-4	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.				
		EACH	10	46.43	



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RF-5	<p>Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T'runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size</p>				
	<p>24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum)</p>				
	<p>sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening"for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.</p>				



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<p>Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity < 0.043 w/mk.</p>	sqm	250	1832.05	
GRAND TOTAL				

BOQ (MODULAR FURNITURE)					
Item Code	ITEM DESCRIPTION	Unit	Quantity	Rate (Without GST)	Amount (Without GST)
	<p>The sharing workstation shall consist of 6 individual workstation of size 1500L1 - 1500L2 x 600D x 750/110H. The total height of frame shall be 1200mm height. The partition based system shall be with main spine in 50 mm thick made by 1.2 mm thick CRCA sheet conforming to IS 513: (2008), IS 13871: 1993. The end and intermediate spines of 30 mm thick. The profile of verticals should be able to slide the tiles thickness of 6 mm. The verticals shall have multiple slots for carrying the data and power cables and provision for fixing MS brackets. Slots shall be provided at different heights for fixing tabletop brackets, tiles and shelves. There shall be minimum three slots at different levels to accommodate raceways at skirting and table top levels. The slot provided should be of size- 150x 25 mm. the slot cut out should be made by CNC machines to avoid sharp edges and burr. There shall be minimum four horizontal members in each frame- top, middle levels and at the skirting level. The horizontal members shall be made from CRCA sheets formed in "C" shape in hydraulic press. The CRCA sheets shall be conforming to IS 513: (2008), IS 13871: 1993. The horizontal members should be fabricated with welded joints to the vertical</p>				



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<p>WS1</p>	<p>which makes the frames sturdy and facilitates carriage of cables at different levels. The middle cross members shall have minimum two slots of size 150x25 mm for carriage of cable vertically from the floor to the raceways. The vertical and the cross members shall be CO2 MIG welded conforming to IS 816, ISO 9692- ISO 9692-3. The bottom cross member should be elevated by 120 mm from the floor level All the frames should be fitted with M10 leveling bolts to adjust to ground undulations and capable of adjustment +/- 20 mm. the MS bolt shall be zinc passified with insert molded in PVC shoes. The aluminum trims and MS brackets shall be powder coated as per the approved colour. The aluminum trims and MS brackets undergoes 7 step rust resistance pre treatment process viz degreasing, pickling as per IS standard confirming to ASTM D 1186, ASTM D 1737, DIN 5156, IS 2360, IS 101, ASTM D 522, 523, ASTM D3451 – 06, -DIN EN 14901 - DIN EN ISO 9227, IS 3618 – 2016 After pre treatment process, the components are NANO coated and passified for better adhesion of paint as per IS 3618 - 2016. Cable management - The system shall have effective Cable management system The data and the power cables shall be at different levels (called Raceways) to maintain the separations as per the IT norms minimum 300 mm apart. The wire management slots in the frames are large enough to manage high volume of data cables (CAT-6) - approx- 40-50 CAT-6 cables. Fabric Tile: Constructed out of 5.5mm thick Medium Density Fiber Board (MDF) confirming to IS – 12406 and covered with Fabric of choice. The fabric used shall be confirming to BS EN 1021-1, BS 7176 & ISO 105-B02. The glue used for upholstery shall be made with advanced adhesives confirming to ASTM D 1500, ASTM 1298 standards Sprayed with upgraded machines to ensure uniformity and best adhesion. Laminate Tile: Constructed out of 6mm thick Pre-laminated Particle board confirming to IS – 12923. Worktop -The table top shall be made of 25mm thick pre laminate partical board E1 norms with 2mm pvc edge band finish. Mobile Drawer Unit - It shall be of size of 400 x 450 x 600 (WDH) mm made up of 18mm thick Pre-laminate particle board as per E1 norms and its edges duly sealed with 2mm PVC Lipping on automatic machine at visible sides. Drawer front & sides shall be made up of 18mm, back 9 mm thick pre laminated particle board of E1 grade with visible edges sealed with 2mm PVC edge band. The drawer top surface shall be provided with finger groove handle-less design. Finger groove shall be created by providing a reverse tapered profile edge of 6mm straight surface & 12 mm tapered towards inside at 45 degree & then sealed with minimum 2mm thick PVC lipping on automatic machine. Suitable lock shall be provided The OEM shall have ISO 9001, ISO 14001, ISO 45001, ISO 50001, AIOTA, BIFMA LEVEL-2, IDM, GREENGUARD Certification by UL and IGBC Gold Rating for its manufacturing facility In workstation CPU trolley and Keyboard tray shall be provided.</p> <p>Featherlite NEO (50-30) workstation (Six Person Module) or Approved Equivalent of Godrej or Geeken make.</p>	<p>Each</p>	<p>4</p>	<p>163739</p>	
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T1	<p>The overall size of table shall 1600L x 750D x 780H with Side Unit Extention 900L x 440D x 650H. The table top shall be made of 25mm thick with Pre laminate Partical board with all side 2mm pvc edge band finish. The table top visible side shall be 54mm thick. The edge of table top shall be cover with L-shaped alumimum extrusion with size of 10mm x 15mm. This aluminium extrusion shall increase the overall look of the table top. The gable end of table shall be made of 50mm thick pre laminate Partical board with 2mm pvc edge band finish all side. The main table top shall be supported on gable end and other side of side unit. The front modesty shall be made of 18mm thick pre laminate Partical board with 450mm height. Modesty shall be fitted on gable end with helps of mini fix. Wire Management: 1 No. Aluminium Flip Up and provision to mount switches and sockets on metal cable Dump and vertebra considered for wire uptake from floor to cable dump. Side return unit shall have overall size of 900L x 440D x 650H. The side return unit shall have 50mm thick top made of pre laminate Partical board. The side unit shall have 3 equal drawer with 1 openable shutter. The openable shutter shall have 2 equal compartment. The body of side unit shall be made of 18mm thick pre laminte Partical board with 2mm PVC edge band finish. The side table design should be such that it has flexibility to be fixed either in right hand side or left hand side of the user during the time of assembly. The OEM shall have ISO 9001, ISO 14001, ISO 45001, ISO 50001, AIOTA, BIFMA LEVEL-2, IDM, GREENGUARD Certification by UL and IGBC Gold Rating for its manufacturing facility.</p> <p>Featherlite Senate HT 531 Cabin Table or Approved Equivalent model of Godrej or Gecken make.</p>	Each	2	38165	
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<p>C1</p>	<p>The overall size of Chair shall be height 915 to 1015 +/-5 mm, Back Width 415 mm at Top and 450mm at bottom. Seat Width 480 +/-5 mm, Seat Depth 440 +/-5 mm and Seat height 460mm to 560 mm +/-5mm range. over all chair width should be 560 +/-5mm and Overall chair depth should be 670 +/-5mm. Seat should be made up of foam pre moulded at 55 kg/m³ density. hardness of 25+ 3kgf at 50% deflection conforming to IS 3400. Seat shall be upholstered with micro fabric 100% polyster 180 GSM abrasion > 50000 cycles. No flammng or progressive smoldering within one hour of placement of the cigarettes. Fire rated fabric confirming to BS EN 1021 (match) should be used. The back frame shall be made up of PPGF and the injection molded in black color, armrest also in black color. The chair shall be supplied with Mesh Back rest. The Chair should be provided with center tilt two position lock Mechanism. The mechanism shall allow 360 degree revolving feature along with height adjustability. Fixed arms connected to seat and back in the same colour. The mechsansim shall possess seat to back recline ratio of 1:1. The Gas Lift used shall be class 4 tested as per ANSI BIFMA standards. Nylon Base to be provied. Twin castors 50 mm dia with PA6 material complying to ANSI/ BIFMA X 5.1 2017 standards. the axle pin shall be rust protected zinc passivated. The base shall be made up of nylon glass filled black color. The OEM shall have ISO 9001, ISO 14001, ISO 45001, ISO 50001, AIOTA, BIFMA LEVEL-2, IDM, GREENGUARD Certification by UL and IGBC Gold Rating for its manufacturing facility.</p> <p>Featherlite Alpha revolving chair or Approved Equivalent model of Godrej or Geeken make.</p>	<p>Each</p>	<p>34</p>	<p>6783</p>	
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C2	<p>The overall size of Chair shall be : Total height 980 +/-5 mm, Back height- 585 +/-5 mm, Back width : 470 +/-5 mm, Seat width : 485 +/-5mm, Seat depth : 465 +/-5mm, Seat height : 475 +/-5mm. Seat and back should be made up of foam pre moulded at 55 kg/m3 density. hardness of 25+ 3kgf at 50% deflection conforming to IS 3400. Seat and back shall be upholstered with 100% polyester fabric of 295 GSM abrasion > 50000 cycles. No flammings or progressive smoldering within one hour of placement of the cigarettes. Fire rated fabric conforming to BS EN 1021 (match) should be used. Chair shall have fixed armrest made of with Nylon 30% GF. The Frame shall be made out of ERW tubes with 25 mm diameter and 2.5 mm thickness pipe conforming to IS – 4923. Frame shall be welded by CO2 welding process for uniform finish conforming to IS 816. understructure shall connected with 4nos injection ABS leg shoes. Frame shall offered with powder coat finish to provide an attractive finish. It shall be in black colour. The powder coating pre-treatment shall carried out with three in one chemical. After pre-treatment process, the components shall powder coated for better adhesion of paint. The frames shall powder coated with epoxy polyester powder to the thickness of 40-60 microns as per IS 101 and oven baked at 180°. The OEM shall have ISO 9001, ISO 14001, ISO 45001, ISO 50001, AIOTA, BIFMA LEVEL-2, IDM, GREENGUARD Certification by UL and IGBC Gold Rating for its manufacturing facility.</p> <p>Featherlite click visitor chair or Approved Equivalent model of Godrej or Geeken make.</p>	Each	12	7404	
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ST1	<p>The overall size shall be 900 x 450 x 1200 (WDH) mm. Top shall be made up of 18mm thick pre laminated particle board E1 norms and Back shall be made up of 9 mm thick pre laminated particle board with 2mm PVC edge lipping, Shutters shall be made up of 18 mm thick pre laminated particle board. 2 Shutters to be provided for compartment. Edge: All exposed shall be sealed with 2mm thick PVC edge lipping. The hinged doors top shall be provided with finger groove handle-less design for a streamlined look. Finger groove shall be created by providing a reverse tapered profile edge of 6mm straight surface & 12 mm tapered towards inside @ 45 degree & then sealed with minimum 2mm thick PVC lipping on automatic machine. Locking facility should be provided for safe storage of documents. The OEM shall have ISO 9001, ISO 14001, ISO 45001, ISO 50001, AIOTA, BIFMA LEVEL-2, IDM, GREENGUARD Certification by UL and IGBC Gold Rating for its manufacturing facility. Medium Height Storage with Openable Shutter</p>	Each	10	10754	
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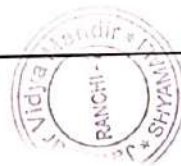


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ST2	The overall size shall be 900 x 450 x 750 (WDH) mm. Top shall be made up of 18mm thick pre laminated particle board E1 norms and Back shall be made up of 9 mm thick pre laminated particle board with 2mm PVC edge lipping, Shutters shall be made up of 18 mm thick pre laminated particle board. 2 Shutters to be provided for compartment. Edge: All exposed shall be sealed with 2mm thick PVC edge lipping. The hinged doors top shall be provided with finger groove handle-less design for a streamlined look. Finger groove shall be created by providing a reverse tapered profile edge of 6mm straight surface & 12 mm tapered towards inside @ 45 degree & then sealed with minimum 2mm thick PVC lipping on automatic machine. Locking facility should be provided for safe storage of documents. The OEM shall have ISO 9001, ISO 14001, ISO 45001, ISO 50001, AIOTA, BIFMA LEVEL-2, IDM, GREENGUARD Certification by UL and IGBC Gold Rating for its manufacturing facility. Low Height Storage with Openable Shutter	Each	40	7512	
		TOTAL			

BOQ : ELECTRICAL

S.No	Description	Unit	Qty.	BASE Rate (Excludin	Amount
1	Supply, laying underground, jointing/termination of cable 1.1 kV, 3.5C X 50 sqmm Al, FR cable.(from Incomer of existing feeder Pillar to new Admin Building termination kits included.	mtrs	100	120000	



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2	<p>Supply, installation, testing, commissioning of MAIN Distribution Board. This board shall be provided with 150 A TPN MCCB (suitable for fault current of 36kA for 1 Sec) as incomer and with 7 nos. of 63 A TPN MCB & 3 nos. of 32A TPN MCB as outgoing feeders .The MCB shall be with Type C Curve. This board shall conform to IS 8623 -1 &3 ,IEC 61439 -1 & 3 ,IK 09 with double door, IP 43, 1.6MM CRCA sheet, RAL 7003, powder coated complete with 200A insulated phase bus-bars , neutral bars with shrouds, earth bars , sticking saddles , cement spill protector , color-coded interconnecting wire set , cable ties, blanking plates and circuit identification labels etc</p> <p>The make of the DB's, MCCB & MCB shall be Legrand, L&T, C&S, ABB, and Schneider</p>	Set	1	500000	
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3	<p>Supply, installation, testing, commissioning of Distribution Board. This board shall be provided with 63A 4P MCB as incomer and 12 nos. of 16 A SP MCB as outgoing feeders .The MCB shall be with Type C Curve. This board shall conform to IS 8623 -1 &3 ,IEC 61439 -1 & 3 ,IK 09 with double door, IP 43, 1.6MM CRCA sheet, RAL 7003, powder coated complete with 100A insulated phase bus-bars , neutral bars with shrouds, earth bars , sticking saddles , cement spill protector , color-coded interconnecting wire set , cable ties , blanking plates and circuit identification labels etc.For lighting in each floor.The make of the DB's & MCB shall be Legrand, L & T, C & S, ABB, Schneider.</p>	Set	3	75000	
4	<p>Supply, installation, testing, commissioning of Distribution Board. This board shall be provided with 63A 4P MCB as incomer and 12 nos. of 20 A DP MCB as outgoing feeders .The MCB shall be with Type C Curve. This board shall conform to IS 8623 -1 &3 ,IEC 61439 -1 & 3 ,IK 09 with double door, IP 43, 1.6MM CRCA sheet, RAL 7003, powder coated complete with 100A insulated phase bus-bars , neutral bars with shrouds, earth bars , sticking saddles , cement spill protector , color-coded interconnecting wire set , cable ties , blanking plates and circuit identification labels etc.For AC in each floor.The make of the DB's & MCB shall be Legrand, L & T, C & S, ABB, Schneider.</p>	Set	2	50000	



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5	Supply, laying and termination of 4 runs of 1CX10 Sq.mm CU unarmoured (1.1kV) cable with FRLSH properties and as per IS 1554 in conduits. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab, Finolex.	route length in mtrs	60	54000	
6	Supply, installation testing and commissioning of Modular switchboards concealed along with GI box and all accessories each with 10 nos. of 10A modular switches (each of 1M size) and 4 regulator and 2 nos. 6A/10A/13A combi socket) The make of modular switchboard shall be Legrand (Mylinec) or equivalent from Havells, L&T, ABB.	Set	8	9600	
7	Supply, installation testing and commissioning of modular 20A switch socket combo combination concealed along with GI box and all accessories for Air conditioning. The make of modular switchboard shall be Legrand (Mylinec) or equivalent from Havells, L&T, ABB.	Set	10	5000	
8	Supply, laying and termination of 3x 4 Sq.mm Cu FRLSH wires for AC sockets. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab , Finolex.	route length in mtrs	100	24600	
9	Supply, laying and termination of 3x 1.5 Sq.mm Cu FRLSH wires . The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab , Finolex.	route length in mtrs	300	28800	



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10	Supply, laying and termination of 3x 2.5 Sq.mm Cu FRLSH wires concealed in walls in suitable heavy duty conduits to switchboards. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab , Finolex.	mtrs	80	13200	
11	Supply and laying of heavy duty conduits of size 25mm concealed in walls. Necessary accessories as required e.g. bend, couplers, etc shall be provided as per the requirements. The make of conduit shall be Polycab , Anchor, AKG	Meters	250	51250	
12	Supply, Installation, Testing and Commissioning of recessed mounted downlight with low depth Aluminium heat sink in round shape with 9W LED lamp of HAVELLS model Number (INTEGRAPLUSDLRD9WLED830 OR EQUIVALENT from Crompton, Bajaj, Philips). (for balcony and ground floor)	Nos	40	40000	

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13	Supply, Installation, Testing and Commissioning of recessed mounted luminaire with high performance LEDs, suitable for mounting with Armstrong/ Grid and gypsum board ceiling. HAVELLS model Number (VENUSTREND2X2PLR36WLED857SWH OR EQUIVALENT from Crompton, Bajaj, Philips).	Nos	30	180000	
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	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. Color: White Make: Havells, Orient ,Crompton, Bajaj and equivalent.	Nos	14	42000	
For Periphery lighting					
14	Supply, installation testing and commissioning of Light Fitting with Philips Model No. BRP062 LED 84 CW SLC S1 PSU with SPD or equivalent from Crompton, Bajaj, Havells. All the mounting accessories as required for installation of light fitting is included in scope of the Bidder.	Nos	4	12000	



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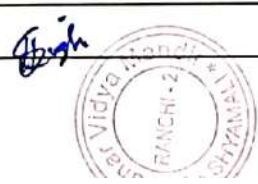
15	Supply, installation testing and commissioning of polycarbonate junction box suitable for loop in loop out arrangement of 3X 2.5 Sq.mm Cu Wire.	Nos	4		
16	Supply, installation testing and commissioning of Modular switchboards concealed along with GI box and all accessories each with 2 nos. of 20A modular switches (each of 2M size) and 1 no 6A/10A/13A combi socket)	set	2	2400	
17	Supply, laying and termination of 3x 2.5 Sq.mm Cu FRLSH wires concealed in walls in suitable heavy duty conduits.	mtrs	50	8250	

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18	Construction of Earth pits with necessary excavation, providing and fixing of earth electrode with GI pipe and funnel, providing and filling of soil enhancement material, construction of earth pit chambers, Providing earth pit cover, painting of earth pit covers, measurement of earth pit resistance and connecting the earth pit to earth grid/equipments conforming to IS- 3043. The job includes providing of 50 mm diameter NB class B, GI pipe of 3 meters length. GI Earthing strip of 300 mm (Length) x 6 mm (Thickness) x50 mm (Width) bent to the shape of the pipe and welded at 75 mm from top portion of GI earth electrode. Tapped holes of 10 mm diameter shall be provided on the GI earthing strip for connecting earthing strips to the earth electrode. Funnel with a mesh shall be provided on the top portion of the earth electrode for watering purpose. GI earthing strip welded to the earth electrode at the top shall have hot dip galvanized coating of not less than 10 microns thickness. The job includes filling up of the earth pit with earth enhancement materials after placing the earth electrode in the excavated earth pit. Earth enhancement materials shall be watered and rammed as tight as possible for shall be carried out proper bonding of the electrode with the adjacent soil. Earth enhancement material shall be filled 300 mm in diameter, around electrode The job includes providing RCC covers on the top portion of the earth pit chamber with suitable handle for lifting arrangement. A base frame of suitable dimensions shall be fixed to the top portion of the earth pit chamber to accommodate earth pit cover. Complete arrangement shall be at ground	set	2	30000	
19	Supply and fixing of 25X 3 GI flat for earthing	mtrs	50	5000	
20	Erection accessories like, nut, bolts, steel, angle, channel lug, ferule, glands, tapes, bend, M-seal etc. or any other materials required to complete the work in all respect.	Lot	1	10000	
	TOTAL (Without GST)				
	TOTAL (With GST)				



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05/03/2025

Samarjit Jana
Principal
Jawahar Vidya Mandir
Shyamali, Ranchi-2.
Aff. No.- 3430004 (66230)

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