



No. JVM/OT-05 /2022-23

Date: 20-09-2022

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 20-09-2022 enclosed herewith (Total pages 37)

Sub: Extension of Lower Primary Building (Golden Jubilee Block) at the premise of JawaharVidyaMandir School, Shyamali Ranchi.

Salient Features of the Invitation to Tender:

1	Tender Enquiry No. & Date	No. JVM/OT-05 /2021-22Date: 20-09-2022
2	Project Description	Tender for Extension of Lower Primary Building (Golden Jubilee Block) at the premises of JawaharVidyaMandir School.
3	Date of floating of on-line Tender	20-09-2022
4	Last date & time of submission of tender document	06-10-2022 by 01.00 PM (IST)
5	Date & Time of Opening of Tender	On 06-10-2022 at 04.00 PM (IST). The representatives from the tenderer may be present while opening of the tender
6	Validity of tender	05 (Five) months from the date of opening of Techno-Commercial part of the tender document.
7	Project Completion Time	05 (Five) months from the date of issue of work order.
8	Earnest Money Deposit	Rs. 470000/- (Four Lakh Seventy Thousand only)
9	Cost of the tender document	Rs. 2000/- (Two thousand only)

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(SAMARJIT JANA)
PRINCIPAL

Principal
Jawahar Vidya Mandir
Shyamali, Ranchi



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Dated: 20.09.2022

INVITATION TO TENDER

Extension of Lower Primary Building (Golden Jubilee Block) at the premises of Jawahar Vidya Mandir School, Shyamali

Sealed tenders are invited for award of Extension of Lower Primary Building (Golden Jubilee Block) at the premises of Jawahar Vidya Mandir School - Shyamali, Ranchi, as per the Technical Specification attached as Annexure – I from registered, reputed, experienced and eligible firms who have executed similar nature of work as per eligibility criteria and satisfying all the terms and conditions in this tender document.

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 "**Extension of Lower Primary Building (Golden Jubilee Block) at the premises of Jawahar Vidya Mandir School**", addressed to "**The Principal, Jawahar Vidya Mandir, Shyamali Colony, Ranchi – 834002**", and shall be submitted on or before **06.10.2022** till **1.00 PM**.

The scheduled time for opening of tenders shall be 4.00 PM IST on 06.10.2022.

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.

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 bidder, 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.

1. At least one completed similar work (as defined below) having value not less than INR 117 Lakh

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2. At least two completed similar works (as defined below) having value not less than **INR 94 Lakh** each
OR
3. At least three completed similar works (as defined below) having value not less than **INR 70 Lakh** each

In case bidder has executed work of larger value in a longer duration, portion of work executed during qualifying period of last seven 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

Civil Works for construction of RCC framed building including interior finishing, electrical & sanitary works in any industrial/commercial/residential project.

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/execution certificate indicating cost of work & scope of work (as mentioned in similar works) executed during the qualifying period.
3. In case of reference of an ongoing 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

The average annual financial turnover of the Bidder during last (3) three consecutive financial years ending 31st March 2022 shall not be less than Rs 1.20 Crore.

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

1. Copy of Audited Annual Financial Reports for last 3 (three) consecutive financial years ending 31st March 2022 (Balance Sheet and Profit & Loss Account).
2. 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.

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 financial year.

2.5 Earnest Money Deposit:

All the tenders shall be accompanied by EMD (Earnest money deposit) of Rs. 470,000/- (Rupees Four lakhs seventy 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 order 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

2.6 Price Schedule:

- 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.
- 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
- 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.
- 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.

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.	Extension of Lower Primary Building (Golden Jubilee Block) at the premises of Jawahar Vidya Mandir School.	As per items described and listed in the enclosed Bill of Quantity (BOQ) and as per the enclosed tender drawing.

The extension of the primary building shall be carried out by civil - RCC framed construction works as per CPWD specifications. This extension primarily includes extension of building on one side and construction of additional floor at the existing terrace level including finishing, electrical and sanitary- plumbing works complete in all respect as per 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).

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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.

6.0 VALIDITY OF RATES: The rate quoted by the Tenderer shall remain valid for a period of 4 (Four) months from the date of opening of quotation.

7.0 TIME SCHEDULE:

7.1 The successful Tenderer shall be required to complete the job within **5 (Five) months** from the date of receipt of order.

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

8.0 PAYMENT TERMS:

8.1 The payment shall be released as R.A Bill against submission of bill with measurement basis 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.

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 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

14.0 TRANSIT INSURANCE:





Tenderer shall arrange transit insurance on his own and at his own cost for transportation of 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

16.1 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.

16.2 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 the following events:

- a) If the Tenderer fails to comply with the provision/provisions of the Contract.
- b) If the Tenderer is involved in any action involving moral turpitude.

17.0 ARBITRATION:

17.1 Any disputes, differences, whatsoever, arising between the parties, the arbitration shall be governed and regulated in all respect according to Laws of India.

17.2 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.

17.3 The venue of arbitration proceeding shall be Ranchi.

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

1. scope of work shall include all workers, suppliers and services for completion of entire work as directed through site order.
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.



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Abide by statutory regulations, labours rules, safety codes during execution of work.

6. **Use of existing staircase of building will strictly not allowed for shifting of material to upper floor. Lift facility must be installed by contractor to lift the material to upper floor of proposed building.**
7. **Casting of floor/roof shall be done by contractor with RMC (Ready Mix Concrete) with proper pumping arrangement.**
8. 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.
9. 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.
10. Undertaking all works including repairs and renovation work for completion to the satisfaction of JVM.
11. Agency and/or the 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. Unless otherwise specified, measurement of work shall be carried out at site jointly by JVM & Contractor.
18. **Liquidated damages for non-fulfillment of completion schedule.** If the completion of work is delayed beyond the scheduled date for any reason other than due to force major condition or for those attributable to the contractor, then the contractor shall pay 1% per month of delay on total value of work up to a maximum of 5% of the final contract price.
19. The contractor shall not sublet/sub contract the whole or any part of work failing which the contract may be terminated.
20. 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.
21. **Maintenance Guarantee Period (defect liability period):** The contractor guarantees that for a period of 6 (six) months commencing from the date of completion of contract. He shall undertake reconstruction rectification, replacement of all regular schedule work and any other work to make good the faulty work as stated under completion certificate for period of 06 (six) months from the date of issue of commissioning certificate.
22. 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
 iii) Submission of Return in Form – 20

21. All materials supplied to the site shall be of good quality as per latest revision of CPWD specification. Any material not approved by the Engineer shall be removed from the site at his own cost by the Contractor.
22. The work carried at site as per latest edition of CPWD specification.
23. **Time schedule of contract** : Total time schedule of contract will be 5 (five) months from the date of placement of work order.
23. Any items not mentions in the BOQ but required for the completion of work shall be provided by the bidder on mutually agreed terms and conditions.
24. Further, 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.

19. LIST OF APPROVED MAKES

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.

SI. No.	MATERIALS	MANUFACTURERS
A	Anti Termite Treatment	
1.	Anti Termite Treatment	Pest Control India Ltd., Mysodet Limited or approved equivalent make
B.	Concrete & Masonry works	
1	Cement	: ACC, Ultratech, JK, Grasim, L&T (Ultra Tech Cement), Lafarge,
2	Reinforcement Steel/Structural Steel	: SAIL, RINL, TISCO, JINDAL (Panther), JSW
3	Admixtures for concrete (Plasticisers and Water proofing compounds)	: Cico, JubliantOrganosys, Roffe, Pidilite, KrishnaConchem, Fosroc, Sika, MBT, HSW
4	White Cement	: Birla White, J.K. or approved equivalent make
5	PVC Water Stops	: Pidilite, Supreme, Fixopan, Omai Plastics
6	Autoclaved aerated Blocks (AEROCON)	: Hyderabad Industries Ltd. or approved equivalent make
7	Film faced plywood	: Anchor, Associate or approved equivalent make
C	Flooring	
1	Vitrified Tiles	: Restile, Euro, Johnson, RAK. CENGRES, Kajaria, Orient bell ,AGL
2.	Cement Concrete tiles	: Nitco, BasantBeton, Tile Italia, Ultra, Stone Crate, Duracrut, Eurocone
3	Acid Alkali Proof lining / tiles	: Coromandel Prodorite, Kothari Corrossion Controllers, Rstile, Jhonson
4.	Concrete Paver Blocks	: BasantBeton, Pavestone Marketing, Designers Pavings and Tiles Pvt. Ltd.

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Sl. No.	MATERIALS	MANUFACTURERS
5.	Metallic Floor Hardener	: M/s. Triveni Color Industries (Floornate) M/s. Heatly&Gresham (India) Ltd M/s. De-Rust Chemical Corporation of inida (Ferronite) Mls. Cement Research Corporation Pvt Ltd. (Stilonite)
6.	Non Metallic Floor Hardener	: Fosroc, Sika, Pidilite, Cryso or approved equivalent make
7.	Ceramic Tiles	: Johnson, Somany, Kajaria, AGL, NITCO, orient bell
8.	Cavity flooring	: Unitle, Cani-Microtac, Hyderabad Industries Ltd.
9.	Sunken Portion Treatment	: Choksey, Roffe, Krytone, Sika, Pidilite, HSW
10.	PVC Flooring	: Premier Vinyl Flooring, Responsive Flooring Bhor, Armstrong, Polyfloor, Wonderfloor.
11.	Glass Mosaic Tiles	: Italica, Bisazza. Palladio or approved equivalent make
12.	Antistatic Epoxy Floor	: Pidilite, Fosroc, Beck, STP, Degussa, Huntsman, Sika, HSW
13.	Epoxy Coating	: Pidilite, Fosroc, Asian Paints, Huntsman, Degussa, Sika, HSW
D.	Wood Works	
1.	Laminates	Formica, Decolam, Century, Marino, National, Green Ply, Durian
2.	Pre-Laminated Particle Board/ Particle Board / Wooden Doors	Novopan, Greenlam, Kitlam, Bhutan Board, Indian Plywood Mfg. Co. Ltd., Indian Wood and Wood Products, Mangalore, Mysore Plywood Limited, Mis Western India Plywood, Orchid Ply
3.	Flush Door Shutters	: Kitply, Navapan, Green Ply, Kutty Flush Doors, Anchor, Anand
4.	Ply Board	: Greenply, Kitply, Century or approved equivalent make
5.	Prelaminated MDF Board	: Mangalam Timber (Dura Tuff), Century, Green Ply or approved equivalent make
6.	35mm thick exterior grade panel door (both side laminated door)	: -do-
7.	35mm thick exterior grade flush door	: -do-
8.	Dry wall partition	: Saint gobain, USG or approved equivalent make
E.	Steel Works	
1.	M.S. Pipe	Jindal Hisar, Kalinga, TATA
2.	Steel Doors, Windows, MS rolling Shutters, Pressed Steel Door Frames	: SenHarvic; AGEW; Deccan Structural System, Multiwyn, NCL Seccolor Ltd., Madhu Industries, Swastic Rolling Shutters & Engineering Works, Basic Arch Products, Perfect Industrial Products.
3.	Metal Fire Check Doors	: Shakti harmmon, Ahlada Engineer pvt. Ltd., Godrej or approved equivalent make
4.	Stainless Staeel Bolts, Screws, Washers, Nuts	: Kundan, Puja, Atul or approved equivalent make
5.	Stainless Steel Pipes/Flats	Jindal, Salem Steel or approved equivalent make

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JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI – 834002

AFF.NO.-3430004
SchoolCode:-66230
Ph.:2411221,2411665

Sl. No.	MATERIALS	MANUFACTURERS
6.	Dash Fasteners/Anchor bolts	: Hilti, Fischer, Bosch, WORTH
F.	Aluminium Works	
1.	Aluminium Sections	: Indal, Bhoruka, Hindalco, Jindal
2.	Fabricator for aluminium Doors, Windows, Curtain Walls, Structural Glazing	: AjitIndia, Alumilite, ECIE, Alufit, Alfab, Aveey Associates, Hubli, Allied Aluminium, SinghviAlluminium.
3.	Aluminium Cleat arrangement for Glazings	: Deco Indalco, Jindal, hindalco or approved equivalent make
4.	Aluminium Composite Panel	: Alstrong, Alpolic, Alucobond, or approved equivalent make
5.	Door Seal – Woolpile Weather Strip	: Anand – Reddiplex or approved equivalent make
6.	E.P.D.M. Gaskets	: AnandReddiplex, Enviro Seals or approved equivalent make
G.	Fittings & Fixtures	
1.	Doors & Windows Fixtures / Fittings	: Everite, Hardwyn, Earl Bihari, Garnish, Crown, Jyothi, Godrej & Boyce, Secur Industries, Hafele
2.	Stainless Steel Door handles, butt hinges (with and without ball bearings), Floor stoppers, Cabinet handles, knobs	: KICH, ARCH, NEKI, DORMA or approved equivalent make
3.	StainlessSteelTower bolts, Sliding Bolts	: GARG, ARCH, KICH, DORMA or approved equivalent make
4.	Door Closer / Floor spring	: Everite, Hardwyn, Garnish, Dorma, Hafele, ARCH, KICH
5.	Door Locks	: ACME, Godrej, Harrison, PAG, Hafele
6.	Stainless Steel Friction Stay	: Securistyle, Hafele, Dorma, Hetich, ARCH, KICH or approved equivalent make
7.	Aluminium Die-cast handles & two point locking kit.	: Giesse, Securistyle, Alu-alpha or approved equivalent make
8.	Stainless Steel -handles	: KICH, Hafele or approved equivalent make
9.	Stainless Steel Handrails, Balustrade	: KICH, Ozone, ARCH, DIVINE or approved equivalent make
H	PVC/FRP Doors	
1.	PVC Doors	: ACCUCCEL, Thermodeck, Rajshree, Sintex or approved equivalent make
2.	FRP Doors	: Omega Fibres, Rajshree, Sintex or approved equivalent make
I.	Painting Works	
1.	Acrylic Enamel Paints	: Berger, Asian Paints, Kansai Nerolac, Johnson & Nicholson, Shalimar, AkzoNobel
2.	Oil Bound Distemper	: Asian paints, Berger, Kansai Nerolac, Johnson & Nicholson, Shalimar, AkzoNobel
3.	Cement Paint	: Snowcem Plus, Berger, Nerolac, Johnson & Nicholson, Shalimar, ICI Dulux(AkzoNobel)
4.	Exterior Emulsion Paint	: Dulux(AkzoNobel), Asian, Berger, Johnson & Nicholson, Shalimar, Snowcem Plus
5.	Exterior Emulsion Paint	: Dulux(AkzoNobel), Asian, Berger, Johnson & Nicholson, Shalimar, Snowcem Plus
6.	Epoxy Paint	: Nerolac, Shalimar, Asian Paints, Roto Polymer and Chemicals, Avcon Technics Pvt. Ltd., Huntsman

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Sl. No.	MATERIALS	MANUFACTURERS
7.	Wall Putty	: Birla, JK or approved equivalent make
8.	Other Paints / Primers, Textured Finish	: Dulux (AkzoNobel), Asian, Berger, Kansai Nerolac, Bakelite Hylam
J.	Glass Works / Polycarbonate Sheet Works	
1.	Clear Float Glass / Toughened Glass	: Modi (GG), AIS (Tata), Saint Gobain (SG), Hindustan Pilkington, Asahi
2.	Reflective Glass	: Glaverbel, Glavermas, Saint Gobain, Asahi, Pilkington
3.	Polycarbonate Sheets	: GE Plastics, Everest, Sunlite or approved equivalent make
K.	False Ceiling Works	
1.	False ceiling – Gypsum Board System	: India Gypsum, Laffarge, Boral, saint gobain, USG
2.	False ceiling – Aluminium Panel System	: Hunter Douglas (Luxalon), Armstong or approved equivalent make
L.	Sealants	
1.	Polysulphide sealant	: Pidilite, FosrocChoksey, Degussa Sikka
2.	False ceiling – Aluminium panel system	: GE-Silicon, Pidilite, Choksey, Wacker, Fosroc, Dow Corning, Bostik, INTERARCH
M.	Expansion Joint Treatment	
1.	Expansion Joint Treatment	: VSIL (SanfieldIndia) Ltd., Pidilite, Sika, Crysil or approved equivalent make
N.	Water Proofing Treatment	
1.	Water modified Bitumen water proofing membrane	: STP, Bitumat, SIKA, Texsa
2.	App modified bitumen water proofing membrane	: STP, Bitumat, SIKA, Texsa
O.	Sanitary & Plumbing Works	
1.	Vitreous China Sanitary ware	: Hindware, Parryware, Kohler, Gabriet
2.	White Glazed Fire Clay Sink	: Sanfire, Cera, Neycer, Hindware
3.	Stainless Steel Sink	: AMC, Orient, Nirali, Suhag, Dayana, Commander
4.	Plastic Seat Cover of E. W.C.	: Commander, Bestolite, Diplomat, Jaquar, Sona, Gabriet
5.	C.P. Fittings mixer / pillar taps, washers, C.P. Brass accessories	: Jaquar, Ess Ess, MARC, Kohler, Gabriet
6.	Centrifugally / Sand Cast iron pipes & fittings & fixtures (IS 3989/1729)	: R.I.F., J. NECO, B.C., B.I.C., ISP, SKF
7.	G.I. Pipes	: Tata, Jindal or approved equivalent make
8.	G.I. Fittings	: Unik, K.S., Zoloto or approved equivalent make
9.	Gunmetal Valves	: Zoloto, Leader, Sant, Kilburn, Neta
10.	CP Brass stop & Bib Cock	: Jaquar, EssEss, MARC, Kohler
11.	Ball valve with floats	: Zoloto, Leader, Sant, Jayco
12.	Stoneware pipes & Gully Traps	: Tassel, Indo Pipes, South India Corporation, PerfecrKashmira or any BIS Marked Pipes
13.	R.C.C. Pipes	: Indian Hime Pipes, Canera Cement Pipes, Karnataka Cement Pipes or any BIS Marked Pipes
14.	C.I. Manhole Covers	: RIF, NECO, B.C., B.I.C.
15.	PVC Water Tank	: Sintex, Polycon, Infra or approved equivalent make

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Sl. No.	MATERIALS	MANUFACTURERS
16.	Mirror	: Atul, Modi Guard, Saint Gobain or approved equivalent make
17.	Hand Drier	: Kopal, Automat, Euronics or approved equivalent make
18.	PVC flushing cistern	: Commander, Parryware, Duralite, Hindware
19.	PVC Rain Water Pipes	: Supreme, Prince, Finolex, Oriplast, Kisan
20.	C.I. Pipes Class LA and fittings	: Keso-spun, supra, Electrosteel or approved equivalent make
21.	UPVC/HDPE Pipes & fittings	: Finolex, prince, supreme, kitec, oriplast, Polyfab
22.	C.P. Flush Valves	: Jaquar, Roca, MARC
23.	C.P. Angle Valves (Ball valve type)	: ITAP : Italy, Bugatti
24.	Gratings, Strainers, Cleanouts etc.	: Near Brand (Sage Metals) or approved equivalent make
25.	GI Plaster mesh	: M/s Arpitha Exports or approved equivalent make
26.	CP liquid soap container (tilting type)	: OMCO, Jaquar or approved equivalent make

2. For Make of Electrical items refer makes indicated with individual items.

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

- The changes in quantity may increase or decrease as given in BOQ and contractor should do the work as per direction/ requirement of site engineer/supervisor.
- The work will be executed on firm item rates basis as quoted. The contractor will be issued with site order indicating various works to be taken up by the contractor.
- Any defect found within the guarantee period shall have to be attended by the contractor at their own cost and risk.
- The institutional building regulations of the safety code shall have to be strictly followed by the contractors.
- The work is to be executed as per specifications mentioned in BOQ and direction of site engineer. **The quantity mention in BOQ is tentative, it may increase or decrease. The payment will be on actual measurement and consumption of items.**
- Terms of payment: 95% value bill/tax invoice shall be paid within (15) fifteen days after completion of work. Contractor shall submit Bill in triplicate alongwith measurement sheet/abstract of the quantity being executed by the contractor at site, Income Tax Registration no. (PAN) and Service tax registration no.
- 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.
- T.D.S. will be affected from all payments as per prevailing rules.
- 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 :-
 - Completion certificate issued by JVM – original
 - No dues certificate from JVM
 - No claim/no demand certificate by the contractor – original



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- d) Copies of all statutory documents to be provided by the contractor as required by JVM
10. 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.
 11. General schematic tender drawings showing general arrangement of the building is enclosed, any further engineering drawings required for the execution of the work shall be prepared by the bidder and submitted for prior approval.
 12. For electrical works data sheet of light fittings, junction box, Power distribution boards, wires, cables switch board, junction box etc. shall be submitted for prior approval.

Prepared By	Checked By	Approved By
		 20/9/2022
(H P Singh) Supervisor JVM Shyamali	(Parikshit Singh Thakur) Member , Infra Committee JVM Shyamali	(R S Raman) Chairman, Infra, Committee JVM Shyamali


(SAMARJIT JANA)

PRINCIPAL

Principal

Jawahar Vidya Mandir
Shyamali, Ranchi



Shahg Singh

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ANNEXURE- I

Checklist for Part A: Techno-commercial Bid

CHECK LIST

Sl.no.	Description	Submitted	Not submitted	Remarks
1	EMD (Earnest money deposit) By Demand Draft			
2	Tender paper cost by demand Draft			
3	GST registration certificate with previous month return file			
4	PF registration number with previous month return file document			
5	ESI registration no. with previous month challan			
6	PAN number (copy			
7	Audited report for the year 2018- 19, 2019-20,&2020-21 with UID no.			
8	Work order and completion certificates as per clause 2.2			
9	Audited report for the year 2018- 19, 2019-20,2020-21			
10	Affidavit for deployment of plant and machines as per requirement			
11	Filed ITR for last 3 (three) years			
12	Audited accounts statement for last three years.			
13	Unpriced price schedule duly filled as 'quoted' for all the items			

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Annexure –II

Bill of Quantities:

Extension of Primary School Block in the premises of Jawahar Vidya Mandir School, Shyamali Ranchi

A. CIVIL					
Item no.	Description	Unit	Qty.	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
a	All kinds of soil	Cum	180		
2	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	130		
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	25		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	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	25		
5	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with local sand, with common burnt clay non modular bricks	Sqm	200		

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6	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.(Concrete of M25 grade with minimum cement content of 330 kg /cum)				
a	All works upto plinth level	cum	55		
b	All works above plinth level upto floor V level	cum	300		
7	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 :				
a	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	165		
8	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.				
a	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1250		
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
a	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	35500		
10	Centering and shuttering including strutting, propping etc. and removal of form for				
a	Suspended floors, roofs, landings, balconies and access platform	sqm	1400		
b	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	250		
c	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	150		
d	Stairs, (excluding landings) except spiral-staircases	sqm	100		

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11	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.				
a	In cement mortar	cum	30		
12	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane , black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :				
a	3 mm thick	sqm	600		
13	Extra for covering top of membrane with Geotextile , 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	sqm	600		
14	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 12 mm nominal size derived from natural sources) for screeding in roof.	cum	40		
15	Supplying chemical emulsion in sealed containers including delivery as specified.				
	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	litre	20		
16	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAnti-termite treatment (excluding the cost of chemical emulsion) :				





JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI – 834002

AFF.NO.-3430004
 SchoolCode:-66230
 Ph.:2411221,2411665

Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300mm including excavation channel along the wall & rodding etc. complete:				
With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	metre	150		
Civil -Total A				

B. ARCHITECTURE

Item no.	Description	Unit	Qty.	Rate	Amount
FN	FINISHING				
1	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	sqm	1700		
2	6 mm cement plaster of mix :				
a	1:3 (1 cement : 3 fine sand)	sqm	1050		
3	12 mm cement plaster of mix				
	1 : 4 (1 cement : 4 fine sand)	sqm	2317		
4	Finishing walls with Acrylic Smooth exterior paint of required shade :				
	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	sqm	1700		
5	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	3367		
6	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	3367		
7	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	Two or more coats on new work	sqm	550		
8	Applying priming coats with primer of approved brand and manufacture, having low VOC((Volatile Organic Compound) content.				

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	(a) With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams / litre	sqm	100		
	c) With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	sqm	3367		
9	Applying priming coat:				
	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	sqm	200		
10	Distempering with 1st quality acrylic distemper, 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	100		
FL	FLOORING				
1	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	980		
	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	sqm	125		
2	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.	sqm	20		

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3	Providing and fixing 1st quality ceramic glazed wall tiles conforming IS:15622 (thickness to be specified by manufacturer), of appvd. Make, in all colours, shades except burgundy, bottle green, black of any size as approved by engineer-in charge, in skirting, riser of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	22		
4	Cement concrete flooring 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
	40 mm thick with 20 mm nominal size stone aggregate	sqm	20		
5	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1cement : 3 coarse sand), finished with a floating coat of neat cement.				
	18 mm thick.	sqm	5		
6	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	7		
7	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	metre	10		
8	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as				



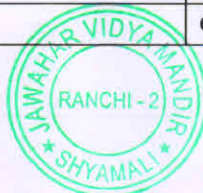


	per direction of Engineer-in-charge and finished smooth.				
	Granite Stone of approved shade	sqm	2		
9	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	70		
10	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1 :3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	3		
WW	WOOD AND PVC WORK				
1	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	metre	22		
2	Providing and fixing to existing door frames.				
	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming	sqm	10		





	to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.				
3	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	54		
4	Providing & Fixing decorative high pressure laminated sheet of plain /wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
	1 mm thick	sqm	7		
5	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.				
	300x16 mm	each	4		
	250x16 mm	each	4		
6	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.				
	300 x 10 mm	each	4		
	250 x 10 mm	each	4		
7	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	30		
8	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade with necessary screws etc., complete				
	a) single rubber stopper	each	15		





9	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	2		
10	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):				
	Rectangular or square	sqm	15		
SW	STEEL WORKS				
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	90		
2	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S.flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	Fixed to openings/wooden frames with rawl plug screws etc.	kg	150		
3	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg.	1500		



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4	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-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	kg	250		
AL	ALUMINIUM/ uPVC WORKS				
1	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge, including Door handle, lock and stopper etc.	sqm	7		
2	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).	kg	70		

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3	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
	Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead of appropriate dimension. (Area of window above 1.75 sqm upto 2.50 sqm).	sqm	110		
4	Providing and fixing 5 mm thick clear transparent fibre glass for uPVC windows	sqm	100		
RF	ROOFING				
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				
	110mm dia	metre	50		
SW	Sanitary & Plumbing				

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1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink without drain board 610x510 mm bowl depth 200 mm	each	2		
2	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		
3	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Circular shape 450 mm dia	each	4		
4	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		
5	Providing and fixing CP brass Robe hook of Jaquar (Cont.-cat. No-1191) or approved equivalent fixed with CP brass screws with all bye-works complete as per specifications and direction of the Engineer.	each	4		
6	Providing and fixing 125 mm. dia. C.P Brass floor jali (with / without waste hole) of approved quality and make complete with all bye-works as per specification and direction of the Engineer	each	9		
7	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer- in-charge.	each	4		
8	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: a) Health Faucet (hand jet) with flexible connection pipe for WC.	each	2		
9	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore	each	2		
10	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	each	6		



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11	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
	15 mm nominal bore	each	10		
12	Providing and fixing PTMT pillar cock of approved quality and colour				
	15 mm nominal bore, 107 mm long weighing not less than 110 gms	each	4		
13	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :				
	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern	each	1		
14	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS :2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	each	3		
15	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 :				
	W.C. pan with ISI marked white solid plastic seat and lid	each	3		
16	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock , 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock .	each	5		



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17	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	each	5		
18	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
	External Work				
	25 mm nominal outer dia Pipes	Metre	25		
	32 mm nominal outer dia Pipes	Metre	15		
	40 mm nominal outer dia Pipes	Metre	15		
19	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, l/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.				
	15 mm dia nominal outer dia pipes	Metre	25		
	20 mm dia nominal outer dia pipes.	Metre	45		
	25 mm dia nominal outer dia pipes.	Metre	30		
20	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	Semi rigid pipe				
	40 mm dia	each	4		
21	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	25 mm nominal bore	each	2		
	32 mm nominal bore.	each	2		
	40 mm nominal bore.	each	2		

Sanj 20/09/2022



Sanj 20/9

Shyamali

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22	Providing, Laying and Fixing in position, under floor, against wall in chases sand cast Iron pipes and specials conforming to IS:1729 including cutting the pipes to the required lengths making joints to CI soil pipes and specials in CM 1:1, including cost of all required fittings, accessories, bends, Y joints, spun yarn, cement, sand, labour for packing, curing, painting and testing joints to be required pressure and rectifying the leakages if any etc complete in all respect (Specials at junction of lateral pipe and and vertical stack shall have access door for inspection)				
	100 mm dia.	RM	10		
	75 mm dia.	RM	10		
23	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately.	per litre	2000		

Architecture -Total B

C. STRUCTURAL WORKS

Item no.	Description	Unit	Qty.	Rate	Amount
1	Design, Engineering, Patterning, Fabrication. Supplying & installation in position of Tensile Membrane Structure for car shed/ parents waiting area as per detail specification (including all byeworks & accessories including foundation bolts): a) The structure shall be made of M.S. pipes/sections of approved size/make, fixed with required base/gusset plates, brackets as per approved design and also the elongation systems, draped with 900gsm, water proof, washable, fire retardant, dust repellent and mildew resistant Tensile Membrane Teflon Coated PVDF material. b) Including designing and fabrication of structure, providing required scaffolding and painting to the entire exposed surface of structure with High Quality P.U. paint, doing customized patterning of PVDF material fixing of PVDF material over the structure, cost of transportation, loading and unloading etc. Payment shall be done on projected plan area at ground level.	sqm	30		



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Shyamali

20/09/2020



Structural - Total C

D. ELECTRICAL WORKS

S.NO	Description	Unit	Qty	Unit Rate	Amount
1	Supply, installation, testing, commissioning of 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 6 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 . The make of the DB's, MCCB & MCB shall be Legrand, L&T, C&S, ABB, and Schneider.	Set	1		
2	Supply, laying and termination of 3.5C x 95 Sq.mm, Class 2 Aluminium conductor , XLPE insulated, armoured cable, extruded ST2 type inner sheath and outer sheath(cables shall confirm to IS 7098,8130,3975) at a minimum depth of 1 meter in ground as per IS 1255-1983. The make of cables shall be RR Kabel, KEC, KEI, Havells, Polycab, Finolex.	Route legth in meters	200		
3	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. The make of the DB's & MCB shall be Legrand, L & T, C & S, ABB, Schneider.	Set	4		

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4	Supply, installation, testing, commissioning of Distribution Board. This board shall be provided with 32A 4P MCB as incomer and 6 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. The make of the DB's & MCB shall be Legrand, L & T, C & S, ABB, Schneider.	Set	3		
5	Supply, laying and termination of 4X10 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 meters	350		
6	Supply, laying and termination of 4 sq.mm CU FRLSH wire as per applicable IS in conduits. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab, Finolex.	Route length in meters	200		
7	Supply, laying and termination of 3X4 sq.mm CU FRLSH wire as per applicable IS in conduits. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab, Finolex.	Route length in meters	375		
8	Supply, laying and termination of 3X 2.5 sq.mm CU FRLSH wire as per applicable IS in conduits. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab, Finolex.	Route length in meters	400		
9	Supply, laying and termination of 3X 1.5 sq.mm CU FRLSH wire as per applicable IS in conduits. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab, Finolex.	Route length in meters	3400		
10	Supply, laying and termination of 2X 1.5 sq.mm CU FRLSH wire as per applicable IS in conduits. The make of wires shall be RR Kabel, KEC, KEI, Havells, Polycab, Finolex.	Route length in meters	400		
11	Supply, installation testing and commissioning of fan with fan box and down rod of adequate length with Havells model no. FHCSISTGRN48 or equivalent from Crompton, Bajaj, Usha. All the mounting accessories as required for installation of fan is included in scope of the Bidder.	Set	172		



School

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20/09/2024



JAWAHAR VIDYA MANDIR
SHYAMALI, RANCHI – 834002

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SchoolCode:-66230
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12	Supply, installation, testing and commissioning of 16 module modular switchboard each with 8 nos. of 10A switch, 5 nos. of fan regulator, 1 no. of 20A/10A Twin Socket with switch complete with mounting plate, GI Box. The make of modular switchboard shall be Legrand (Mylinc) or equivalent from Havells, L&T, ABB.	Set	42		
13	Supply, installation, testing and commissioning of 6 module modular switchboard each with 3 nos. of 10A two way switch, 1 no. of 20A/10A Twin Socket with switch complete with mounting plate, GI Box The make of modular switchboard shall be Legrand (Mylinc) or equivalent from Havells, L&T, ABB.	Set	20		
14	Supply, installation, testing, commissioning of Distribution Board. This board shall be provided with 32A DP MCB as incomer and 12 nos. of 6 A SP MCB, Type C Curve with complete wiring. 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. The make of the DB's & MCB shall be Legrand, L&T, Havells, C&S, ABB, Schneider.	Set	4		
15	Supply, installation, testing and commissioning of 6 module switchboard with 2 nos. of 6 A 3 pin Socket with switch complete with mounting plate, GI Box. The make of modular switchboard shall be legrend (Mylinc) or equivalent from Havells, L&T, ABB.	Set	30		
16	Supply and fixing of 4 nos. of 32 mm heavy duty PVC conduits along with necessary accessories in concealed in wall. Accessories such as junction boards /solid bends /couplers /iron stapples / saddles / screws / cement as required shall be in the scope of the Tenderer. The make of conduit shall be Polycab, Anchor, AKG	Meters	275		

Schools

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26/09/2021 ✓



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17	Supply and fixing of 1 nos. of 25 mm heavy duty PVC conduits along with necessary accessories concealed in ceiling. Accessories such as junction boards, solid bends /couplers /iron stapples/saddles/screws/cement/paint as required shall be in the scope of the Tenderer. The make of conduit shall be Polycab , Anchor, AKG	Meters	2500		
18	Supply, installation testing and commissioning of exhaust fan with Havells model no. FHVVEDXOWH06 or equivalent from Crompton, Bajaj, Usha. All the mounting accessories as required for installation of fan is included in scope of the Bidder.	Nos.	10		
19	Supply and fixing of 25X 3 GI flat for earthing at a depth of 800mm and 1500mm away from building forming a grid around the Primary block.	Meters	225		
20	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.	Set	4		

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	<p>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 level. The RCC cover shall be inscribed with "JVM Earth Pit -PSI".</p> <p>All hardware (nut, bolt & washer etc.), used for connection/joints except where welding is done, shall be made of stainless steel (SS). Joints and tapings in the main earth loop shall be made in such a way that reliable and good electrical connections are permanently ensured. All welded joints shall be suitably protected by applying red oxide paint and bitumen. The earth strip should be laid in at about depth of 300 mm from ground level and to be connected to equipments and earth grid at the installations.</p>				
21	<p>Supply, installation testing and commissioning of Light Fitting with 2 nos. of suspension rod and Philips TMC 501 P 2xT-LED 22W batten with 18 W LED tubelight (50000 burning hours) or equivalent from Crompton, Bajaj, Havells.</p> <p>All the mounting accessories as required for installation of light fitting is included in scope of the Bidder.</p>	Set	240		





22	Supply ,installation testing and commissioning of Light Fitting with Philips TMC 501 P 1xT-LED 22W P3241with 18 W LED tubelight (50000 burning hours) or equivalent from Crompton, Bajaj, Havells. All the mounting accessories as required for installation of light fitting is included in scope of the Bidder.	Set	30		
23	Supply, installation, testing and commissioning of 2 MP IP Dome with 30 mtr IR & inbuilt mic & SD card Slot, WDR & Star Light features with CP Plus Model No. CP-UNC-DB21L3C-MDS or equivalent from Dahua, Hikvision, Sparsh, Honeywell . All the mounting accessories as required for installation of camera is included in scope of the Bidder.	Set	30		
24	Supply, installation, testing and commissioning of 2 MP IP Bullet Camera with 30 mtr IR & inbuilt mic & SD card Slot , WDR & Star Light features with CP Plus Model No. CP-UNC-TA21PL3C-V3 or equivalent from Dahua, Hikvision, Sparsh, Honeywell. All the mounting accessories as required for installation of camera is included in scope of the Bidder.	Set	10		
25	Supply, installation, testing and commissioning of POE Switch with 16 port PoE Switch with 2 Giga ethernet uplink with 1 SFP Uplink with CP Plus Model No. CP-ANW-HP16G2F1-N30 or equivalent from Dahua, Hikvision, Sparsh, Honeywell. Network Rack shall be provided for POE Switch complete with rear panel, cantilever shelf, cable manager, AC Power distribution box, fan ,front panel mounting hardware etc.	Set	2		
26	Supply laying and termination of Cat 6 Cable armoured in conduits for cameras. The cable shall have Solid Bare Electrolytic Grade Copper, Polyethylene (HDPE) insulation , 23 AWG nominal dia of conductor , HDPE filler, pairing -Twisted into Two core, armoured ,PVC outer Sheath LSZH properties and sequential marking. Make –Molex, Legrand, Schneider	Meters	2000		
27	Note-Hooking of the POE Switch to the nearest Network switch and integrated of the complete system for CCTV system (by Bidder) with existing system shall be in the scope of the Bidder.				

2019

2019

20/09/2022



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28	Supply, installation, testing and commissioning of polycarbonate junction box with terminals . The make of Junction box shall Hensel, Siemens	Set	150		
Electrical -Total D					
Grand Total (A+B+C+D)					
Final Amount (Inclusive of all taxes and duties)					

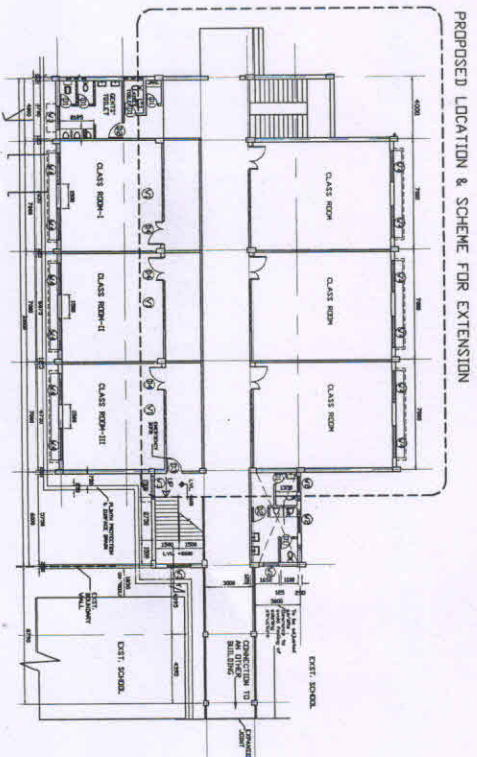


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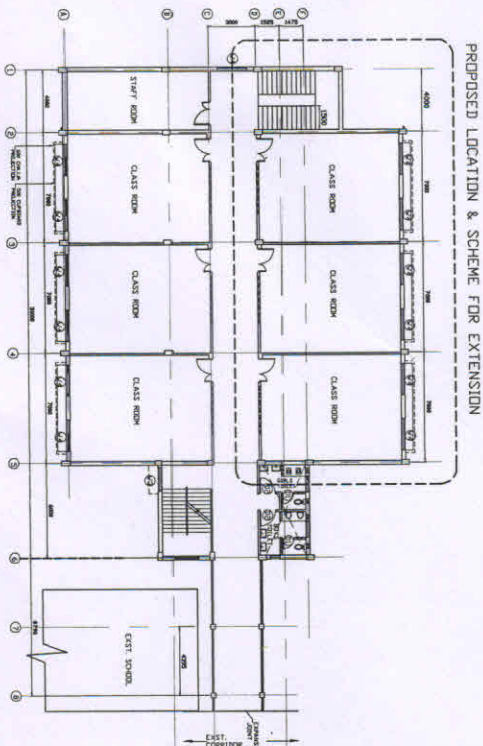
Principal
Jawahar Vidya Mandir
Shyamali, Ranchi

Singh *Singh*

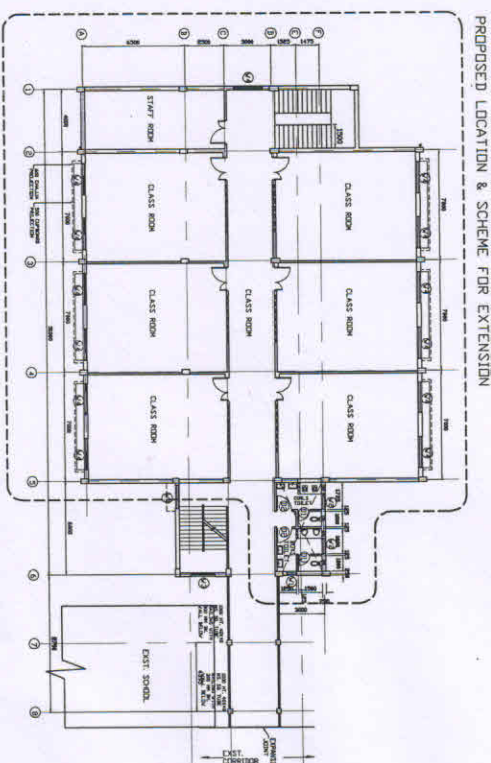
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GROUND FLOOR PLAN



FIRST FLOOR PLAN



SECOND FLOOR PLAN

NOTES:

1. ALL DIMENSIONS ARE IN MM.
2. HATCH WALL HEIGHT WILL BE 2100MM FROM F.F.L.

REV. NO.	DATE	ZONE	DESCRIPTION	BY	VERIFIED	REFERENCES	ENG. NO.	CHECKED AND VERIFIED	APPROVED	DATE	SCALE	SHEET NO.
1	19.04.15		TRUCK PURPOSE ONLY									
2	20.07.15		TRUCK PURPOSE ONLY									
3												
4												
5												
6												
7												
8												
9												
10												
11												

मेकॉन लिमिटेड
MECON LIMITED

PROPOSED EXTENSION OF
GOLDEN JUBILEE BLOCK OF
JYM SCHOOL AT SHYAWALI,
RANCHI PLANS

SECTION: ARCHT.
LOCATION: RANCHI
DESIGNED: P.S.
DRAWN: P.S.
CHECKED AND VERIFIED: [Signature]
APPROVED: [Signature]

DATE: 20.03.2015
SCALE: 1:100
SHEET NO. 1 OF 1

FOR TENDER PURPOSE ONLY

5/20/19

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