



Tender Conditions



ANIMAL BREEDING RESEARCH ORGANISATION (INDIA) (A Unit managed by NDDB Dairy Services, New Delhi)

INVITATION FOR BIDS (IFB) LOCAL COMPETITIVE BIDDING (LCB)

The ABRO, Salon Semen Station having its Office at Town Salon, Dist Raebareli Uttar Pradesh- 229127 invites item rate bids from reputed eligible bidders for “Civil, Structural, Water supply, Sanitary, Roadwork, Internal Electrification & Miscellaneous works for EVM Plant in Salon, Uttar Pradesh” as per details given below:

Estimated cost	Rs. 7800000
Completion period	4 Months (from the date of issuance of Purchase Order) for overall completion)
Earnest Money Deposit (EMD)	Rs. 78000
Mode of Tender	Manual tendering. Bidding document is available at ABC Website.

For further details regarding the bids, contact us on any working day at :

ABRO, Salon Semen Station
Salon, Dist Raebareli
Uttar Pradesh 229127

Mobile : 9839703811, 7570003613
Website : www.abcsalon.org/

1.0 Minimum Eligibility Criteria: For the purpose of bidding, the bidder shall meet the following minimum qualifying criteria:

- The Bidder, in the same name and style, should be in business at least for **Two years** at the time of bid opening. In case of change

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of name of bidder by merger / acquisition / change in status, the bidder may be eligible based on the documentary evidence.

- b) The Bidder should have valid registration under various Acts that may be applicable for the contract proposed. This shall include but not limited to Income Tax, Companies Act, GST, the Building & other construction workers' welfare cess act, Employee State Insurance, Contract Labour, Provident fund etc.
- c) The Bidder's **audited financial turnover** in the same name and style during each of the **last two financial year (2022-23, 2023-24)** ending 31st March should **not be less than 80% of the estimated cost indicated in IFB.**
- d) The Bidder in the same name & style shall have successfully executed /completed contract of **Similar nature of work**** during the last two years as per the following:-

I	One contract/work of similar nature costing not less than 80% of estimated value of the works indicated in the present INVITATION FOR BIDS (IFB).
	(OR)
II	Two contracts/works of similar nature costing not less than 50% of estimated value of the works indicated in the present INVITATION FOR BIDS (IFB).

Similar nature of work:

** Similar nature of work means, construction works having Reinforced Cement Concrete (RCC) framework, structural framework with sheet roofing including internal electrification, water supply and sanitary works in India.

Bidder shall submit the following details to support their claim for meeting the minimum eligibility requirements:

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1. Name / Names of project to be considered for meeting minimum eligibility criteria
2. Nature of each project / work completed.
3. Value of work of each project / work completed.
4. Location of execution of each project/work completed.
The copy of purchase order/work order, completion certificate and abstract sheet of final bill/invoice showing the cumulative value of work done should be submitted in order to support aforesaid details. In case, the final bill/invoice, does not contain cumulative value of work done, copy of all the bills/invoices submitted prior to the final bill should be attached.

2.0 As a part of Part-I, Technical Bid the bidder shall also submit the following documents & credentials.

1. The manpower deployment plan of bidder and the organisation chart.

However, the bidder shall deploy the following mandatory and minimum key manpower at project site;

1 No (BE-civil or DCE with minimum of 2 or 4 years of experience respectively)

This above engineering staff/team shall assist in day to day various data handling, tracking of progress & schedule timelines, QAQC processes cum documentations, billing and bill data punching and so forth exclusively to the Engineer of ABRO, Salon Semen Station.

(a)	Date of commencement of sale of bidding document	04.03.2025
(b)	Last Date and time for bid submission	18.03.2025 11:00 AM
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(g)	Time and date of opening of bids Part –I, Technical bid with EMD Part –II, Commercial/price bid	18.03.2025 12:00 AM 18.03.2025 4:00 PM to all eligible bidders.
(h)	Place of opening of bids	ABRO, Salon Semen Station, Raebareli UP
(i)	Address for communication	General Manager, ABRO, Salon Semen Station, Salon, Raebareli Uttar Pradesh 229127

3.0 EARNEST MONEY DEPOSIT (EMD):

All bids must be accompanied by Earnest Money Deposit (EMD) in the acceptable form as specified in the bidding document and must be delivered to the address of communication as stated above in on or before the last date and time of receipt of bids as given in EMD in original shall be submitted with Technical bid.

3.1 The Earnest Money Deposit (EMD) shall be denominated in Indian Rupees only, and shall be in one of the following forms.

a) **A Bank Guarantee issued by a Nationalized Indian Bank, in the form Provided in Bidding Document and valid till 90 days from the date of bid submission.**

Or

b) **A Demand Draft/ Bankers Cheque issued by a Nationalized Bank/Schedule Bank / Foreign Bank having branches in India, drawn in favour of Animal Breeding Research Organisation(India), payable at Salon.**

Or

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c) Any other online mode RTGS/NEFT payment.

The Earnest Money Deposit (EMD) of the unsuccessful bidders shall be refunded as promptly as possible, but not later than **30 days** after the expiry of the period of bid validity.

Bank	BANK OF BARODA
BRANCH	SALON, DISTT, RAEBARELI
ACCOUNT NAME	Animal Breeding Research Org (I)
ACCOUNT NO.	19570200000051
Type	Current
IFSC Code	BARBOSALRAE

4.0 Performance Security:

4.1 Within **30 days** of the receipt of the notification of award from the ABRO, Salon Semen Station the successful bidder shall furnish to the ABRO, Salon Semen Station a performance security for an amount of **5% (five percent)** of the Contract cost. **It will refund after 6 month of successful completion of total work.**

5.0 BID VALIDITY:

The Bid shall remain valid for a period of **60 days** from the date of bid opening as mentioned above.

6.0 TENDER DRAWINGS: Drawing(s) are attached with this bidding document and the same shall be available for reference at the office of the ABRO, Salon Semen Station at the address of communication on all working days.

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7.0 RIGHTS RESERVED BY ABRO, Salon Semen Station:

The ABRO, Salon Semen Station at its sole discretion & without assigning any reason thereof reserves the right to accept and/ or reject any or all the bids.

Project Site Visit:

- 8** The bidder is advised to visit and examine the site of works and its surroundings and obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into a Contract. The costs of visiting the site shall be at bidder's own expenses.

9.0 Inspection of Works:

- 9.1** The ABRO, SALON SEMEN STATION and his representatives shall have full power and authority to inspect the works at any time wherever the work is in progress either on the site or at the Contractor's premises/ workshop wherever situated, premises/ workshop of any person, firm or corporation where the work in connection with the Contract may be in hand or where from materials are being produced or are to be supplied, and the Contractor shall afford or procure for the Engineer every facility and assistance to carry out such inspection.

10.0 No Night Work:

- 10.1** Subject to any provision to the contrary contained in the Contract, none of the Permanent Works shall, save as hereinafter provided, be carried on during the night without the permission in writing of the Engineer.

11.0 Liquidated Damages for Delay:

- 11.1** If the Contractor shall fail to achieve completion of the Works within the time prescribed then the Contractor shall pay to the ABRO,

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SALON SEMEN STATION the sum at the rate **of 0.5% (zero point five percent)** per week, maximum 10% of PO amount.

12 Period of Maintenance:

All repair/maintenance work shall be carried out by the Contractor at his own expense till 6 month after successful completion of work.

13. Secured Advance for Material:

The Contractor shall submit with his running bill, the estimated value of the materials (major materials like cement, structural steel, TMT bar, roofing sheet etc.) on site together with such documents as may be required by the Engineer for the purpose of the valuation of materials and providing evidence of ownership and get payment till 75%- 90% of material value.

14 Water & Electricity for Construction Use:

Contractor shall make his own arrangement for water for the work and nothing extra shall be paid for the same.

In case the Owner/Project Authority/purchaser supplies water & electricity, it shall be on the following conditions:

Water charges shall be recovered from each RA bill @ **1%** of net amount of work done of such bill.

LIST OF APPROVED MAKES

(for Civil, Structural, Water Supply, Sanitary and other miscellaneous works)

The following is the approved list of products and name of the manufacturer against each product.

Sl.	ITEM DESCRIPTION	APPROVED MAKES / MANUFACTURES
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1	Termite Treatment of Buildings	Through M/s PCI PEST CONTROL PVT. LTD. (PPCPL), OR APPROVED EQUIVALENT agency.
2	Grey Cement Portland Pozzolana Cement - PPC (IS 1948) Or OPC	ULTRATECH CEMENT LIMITED / ACC / BIRLA / ZUARI CEMENT / JSW CEMENT or (THE RAMCO CEMENTS LTD/ CHETTINAD /DALMIA CEMENT/THE INDIA CEMENTS LTD subject to pre-approval)
3	White Cement, Putty, Primer to be applied with putty.	BIRLA CORPORATION LIMITED / JK CEMENT LTD / ASIAN PAINTS / BERGER PAINTS / NEROLAC / GOLDSIZE / SHALIMAR PAINTS LTD
4	Cementation Grout / Non Shrink Cementious Precision (anchoring) grout	FOSROC/ SIKA/SHRINKOMP / BASF / ARDEX ENDURA / PIDILITE / STP/ MYK LATICRETE/MAPEI

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Sl.	ITEM DESCRIPTION	APPROVED MAKES / MANUFACTURES
5	Anti-Corrosive Primer	ASIAN / NIPPON/ SNOWCEM INDIA LTD Or (BERGER / J&N / SHALIMAR/ ICI DULUX / NEROLAC/JOTUN subject to pre-approval) (conforming to IS - 2074)
6	Water Proofing Compound / Self Adhesive Water Proofing Membrane	FOSROC/SIKA/CICO/PIDILITE/MYK SCHAUMBURG/ STP / MAPEI/ HENKEL / TIKIDAN / GRACE CONSTRUCTION PRODUCTS
7	Construction Chemicals, Concrete admixtures of all types, Epoxy and Resin materials, polymer based materials etc.	FOSROC/SIKA/CICO/PIDILITE/MYK SCHAUMBURG/ MYK LATICRETE / BASF/STP / ROFF/MAPEI/MC BAUCHEMIE
8	Reinforcement Steel- IS1786-Fe415, Fe500, Fe500D, Fe550D	SAIL / TATA STEEL /RINL (VIZAG – VSL – Visakhapatnam Steel Plant)/JSW STEEL (NEOSTEEL)
9	Structural Steel & All MS Elements & Plates	SAIL / TATA STEEL /RINL (VIZAG – VSL – Visakhapatnam Steel Plant) / RINL / JSW STEEL (JINDAL)
10	Laminates / Veneer Ply	FORMICA / MERINOLAM / SUNMICA /GREEN LAM / AIKA / CENTURY / KITPLY/DUROPLY/GREENPLY/ROYAL TOUCH / TURAKHIA
11	Glazing (Glass),Tinted Glass, High Performance glass,	MODI FLOAT/ SAINT GOBAIN / TATA/ TRIVENI / ASAHI INDIA GLASS LTD (AIS) / PILKINGTON/SISECAM

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Reflective Glass,
Lacquered/ Back
Painted Glass/
Insulated Double Glass

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12	SS and Brass Fittings & Fixtures for wood and aluminum works	KICH/GOLDEN / ENOX / GEZE / PALLADIUM / DORMAKABA / GODREJ / OZONE / EPPW (Electro Plating and Polishing Works, Gujarat)/ HAFELE/YALE/ Ebco / SLEEK
13	Aluminium Sections	HINDALCO/JINDAL/INDAL/BANCO
14	Frication Stay	HETTICH / HAFELE / EBCO/INGERSOLL RAND
15	Hydraulic Door Closures	GOLDEN/GODREJ/HARDWYN/EVERITE /HYPER/STERLING/OZONE/DORSET/ ENOX / DORMAKABA/ HAFELE/GEZE/YALE
16	Door Closer (Floor Spring) & Door automation	GOLDEN/GODREJ/HARDWYN / KICH / OZONE/ HAFELE/ GEZE/ YALE/DORMAKABA
17	Door Locks	GODREJ / GOLDEN / WELMADE (PUNE) / KICH/ HAFELE/ DORMA JABA/EPPW/YALE/GEZE
18	Aluminium Composite Panel	ALUCOBOND/REYNOBOND/ALPOLIC / EUROBOND
19	Compact Sheet/High Pressure laminates (HPL)	GREENLAM/MERINO/STYLAM /FUNDERMAX
20	Ceramic Tile / Vitrified Tile / Industrial tiles / Glazed Tiles / Acid resistant tiles	KAJARIA/SOMANI/H&R JHONSON/NITCO / RESTILE / BELL/ SPARTEK / ASIAN (Asian Granito India Ltd) / ORIENT / PELICAN (Pelican Ceramic Industries Pvt Ltd)

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21	Polyethylene expansion joint filler board	SIKA/FOSROC/ PARAMOUNT FOAM/ SUPREME (Dura)/MIGUA
22	Anchor fasteners / expandable Mechanical Frame anchor / Chemical Anchors / Re-barring	HILTI/FISCHER/BOSCH/WURTH/FOSROC/AFT/ MUNGO/ KILMAS/ TRIKEL
23	Paints (Premium Quality), Primers/Red-oxide.	ASIAN / NIPPON/ SNOWCEM INDIA LTD Or (BERGER / J&N / SHALIMAR/ ICI DULUX / NEROLAC/JOTUN subject to pre-approval)
Sl.	ITEM DESCRIPTION	APPROVED MAKES / MANUFACTURES
24	Anti-Fungal Acrylic Emulsion Paint	SANDTEXTMATT OF SNOWCEM INDIA / APEX ULTIMA OF ASIAN PAINTS / WEATHER COAT ALL GUARD OF BERGER/ DUROCEM EXTRA / NIPPON
25	Plastic Emulsion / Acrylic Emulsion Paint / Synthetic Enamel	ASIAN / NIPPON/ SNOWCEM INDIA LTD Or (BERGER / J&N / SHALIMAR/ ICI DULUX / NEROLAC/JOTUN subject to pre-approval)
26	False Ceiling/ Metal False Ceiling	SUPERSIL/ HUNTER DOUGLAS/ARMSTRONG/DURLUM LINDNER/ INTERARCH/ SUPERTECH
27	Floor Hardener	FOSROCK/SIKA/CICO/STP / LATICRATE / BASF
28	MS Pipe	TATA/JINDAL / BIRLA (INDIA) LIMITED or

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		equivalent approved make.
29	MS Hollow (Tubular) Section (RHS/SHS)	TATA / DECCAN / JINDAL / SAIL
30	Stainless Steel (Pipes, tubes, bars, angles, channels etc all general structural sections)	SALEM / JINDAL STAINLESS / HINDUSTAN INOX / RATNAMANI METAL & TUBES LTD
31	uPVC PIPE / cPVC PIPE / S.W.R PIPE / PVC PIPE	FINOLEX/ SUPREME / ASTRAL / JAIN / ASHIRVAD PIPES PVT LTD
32	UPVC/cPVC/SWR Pipe, Specials and Fittings / All types of PVC pipe specials.	FINOLEX/ SUPREME / ASTRAL / JAIN/ASHIRVAD PIPES PVT LTD
33	Polysulphide / Silicon Sealant	FOSROC/SIKA/CICO/PIDILITE/ DOW CORNING/ MAPEI/ MYK ARMENT/ STP LTD/ MC-BAUCHEMIE/ ROFF/ GE SILICON / WACKER
34	Bitumen	IOC / HP/ ISI MARKED or equivalent approved

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Sl.	ITEM DESCRIPTION	APPROVED MAKES / MANUFACTURES
35	All Sanitary and Plumbing Fixtures, Fittings, Accessories etc. all	JAQUAR/ PARRYWARE / HINDUSTAN (HINDWARE) / CERA / KOHLER /ROCA / AMERICAN STANDERD
36	GI Fittings	'R' BRAND / UNIK / KS / ZOLOTO/ APPROVED PIPE MANUFACTURERS
37	GI Pipes	TATA / JINDAL(HISSAR) / BST / QST/ PRAKASH SURYA / ROSHNI
38	GI Sheet	SAIL / TATA / ISPAT (NIPPON)/JINDAL
39	SS Sink	NIRALI / KOHLER/ PRESTIGE/ JAQUAR
40	CI S & S Class LA pipe Sand CI pipes & Fittings	IISCO/KESORAM / ELECTROSTEEL / NECO / HEPSCO / NEEL / KARTAR
41	Butterfly Valve (IS13095)	AUDCO/ LEHRY /TOSHNIWAL / LEADER / ZOLOTO/SANT/ AUDCO/ KIRLOSKAR / GETECH
42	CI Manhole Cover	NECO / RIF/ KARTAR/ HEPSCO / EQUIVALENT APPROVED
43	PVC Gully Traps and Nahani Traps	FINOLEX/ SUPREME / ASTRAL
44	CI Valves	LEADER / AUDCO / LEHRY /TOSHNIWAL / ZOLOTO / SANT/ KIRLOSKAR / GETECH
45	Brass/Gun Metal Valves / NRV	LEADER / SANT / AUDCO / BDK / ZOLOTO/ LEHRY /TOSHNIWAL / KIRLOSKAR
46	CP Flush Valves	JAQUAR/ PARRYWARE / HINDUSTAN (HINDWARE) / CERA / KOHLER /ROCA / AMERICAN STANDERD / KICH
47	Flush Shutter	NATIONAL/ KITPLY/ CENTURY / KUTTY FLUSH DOORS/ KANCHAN PRIMA / GREENPLY / UNIPLY / ARCHIDPLY / ANCHOR PLYWOOD (INDIAN

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		PLYWOOD MANUFACTURING CO. LTD/ DUROPLY
48	CP Brass Fitting	JAQUAR/ PARRYWARE / HINDUSTAN (HINDWARE) / CERA / KOHLER /ROCA / AMERICAN STANDERD / KICH
49	Ball Cock / Valve	LEADER / AUDCO / ZOLOTO or equivalent approved make.

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Sl.	ITEM DESCRIPTION	APPROVED MAKES / MANUFACTURES
50	Hume Pipes	INDIAN HUME PIPE CO. / EQUIVALENT ISI MARKED APPROVED
51	Looking Mirror	ATUL / GOLDEN FISH / MODI / LION / CERA / JAQUAR / HINDUSTAN (HINDWARE) AIS
52	Night Latch / Mortise Lock/ Tubular Lock	GODREJ / GOLDEN / KICH/ HAFELE/ DORMA JABA
53	Ply & Commercial Boards	KITPLY / CENTURY / DUROPLY/ GREENPLY ARCHIDPLY / MERINO
54	Stainless Steel Doors / GI Powder coated doors	AJNI INDUSTRIES LTD/ SHAKTI HORMAN HORMANN/ ICLEAN (INTEGRATED CLEAN ROOM TECHNOLOGY LTD) / PERFECT / TATA PRAVESH
55	Anti-cockroaches Stainless Steel Perforated trap /SW hanging supports	CHILLY/ CAMRY/ OR EQUIVALENT APPROVED
56	Stainless Steel Perforated trap cover	CHILLY MAKE OR EQUIVALENT APPROVED
57	PVC Vinyl Flooring	BHOR/ARMSTRONG
58	PVC Water Stops /Hydrophilic Swellable rubber strip (Not bentonite type)	MARUTI /JYOTI RUBBER/ FOSROC / ASIAN/ BASF / SIKA / PIDILITE / MAPEI / STP/ TIKIDAN / GRACE / MYK ARMENT
59	PVC Water tank	SINTEX / SUPREME
60	Water Bowl for animals	DELAVAL or APPROVED EQUIVALENT make.
61	Fibre Glass Wool Insulation Sheets	TWIGA/Lloyd/MINWOOL/ROCKWOOL/ OWENS CORNING

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Turbo Ventilator/ Roof
Extractor / Eco-
Ventilator

DEVASHISH TURBO VENTILATORS
(DIPL), MUMBAI /DHAKAR ENGINEERS,
UDAIPUR / MB
ENTERPRISE, AHMEDABAD/SUDHA
VENTILATING SYSTEM PVT LTD,
AHMADNAGAR /M/S SYGURU
TECHNOLOGY SERVICES, VADODARA
M/s SAI CORPORATION, VADODARA/
COOLTECH SYSTEM

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Sl.	ITEM DESCRIPTION	APPROVED MAKES / MANUFACTURES
63	Vitreous China Sanitary wares	JAQUAR/ PARRYWARE / HINDUSTAN (HINDWARE) / CERA / KOHLER /ROCA / AMERICAN STANDERD
64	HDPE Pipe	RIL/JAIN/DUTRON/HASTI/SUPREME
65	CP fittings	JAQUAR/ PARRYWARE / HINDUSTAN (HINDWARE) / CERA / KOHLER /ROCA / AMERICAN STANDERD
66	Galvanised Steel Precoated Profile Sheets (Roofing and Cladding)	TATA BLUE SCOPE / INTERARCH / POLYSTEEL (DENDRO) / UNIMETAL / METACOLOUR / ISPAT/ JSW
67	Water Type Fire Extinguisher	NEWAGE / SAFEX / SAFEGUARD/ LIFEGUARD/ MINIMAX/ VINTEX/ CEASEFIRE
68	ABC Powder Fire Extinguisher	NEWAGE / SAFEX / SAFEGUARD/ LIFEGUARD/ MINIMAX/ VINTEX/ CEASEFIRE
69	CO2 Type Fire Extinguisher	NEWAGE / SAFEX / SAFEGUARD/ LIFEGUARD/ MINIMAX/ VINTEX/ CEASEFIRE
70	Floor Joints (Resin Based Epoxy Grouts) Floor Tiles Adhesive (High performance Polymer Modified, non-slip adhesive)	ARDEX ENDURA/FOSROC/ PIDILITE/ MYK LATICRETE/BASF/SIKA / STP/ MAPEI / ROFF
71	Bitumen, Sealing Compound	SHALITEX (STP)/ FOSROC / IOC
72	Gypboard/ Fibre Board / Mineral Boards for False Ceiling	GYPSUM INDIA (GYPROC – SAINT GOBIN)/ RAMCO / PROMAT / ARMSTRONG / AEROLITE/ USG BORAL/ KNAUF DANOLINE
73	Cement Paint	SUPER SNOCEM / NITCOCEM / DECOCEM

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74	Green Kota / Red Kota Covings & Corner Stones.	VIJAY COVINGS /EQUIVALENT APPROVED
75	Polycarbonate Sheet	LEXAN / PALRAM/TUFLITE/ROOFCLAD/ DPI DAYLIGHTING / DANPAL/ GALLINA INDIA / POLYGAL
76	PU Coating / PU Paint	MRF/SHALIMAR/CIPY/ ASIAN/ ICI / STP JOTUN/ AKZONOBEL / HEMPEL

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77	PVC Foam Plastic Sheet	FLEXIBOND, RAJASHRI PLASTIWOOD/ EQUIVALENT APPROVED
78	FRP/GRP Gratings	BALAJI/ERCON/THERMODRAIN/HP/FIB ROCAST/
79	Screws, nuts bolts, washers etc	KUNDAN / ARROW INTERNATIONAL / ROOFIX/ EJOT NETTLEFOLD / PARAGON/ EQUIVALENT APPROVED
80	HDPE Electro fusion Pipe fittings	GREOG FISCHER/BENTLAY/ SANGIR (TEGA)/ SUPREME
81	Elevator/Lift	JOHNSON/OTIS/OMEGA/KONE /SCHINDLER
82	Epoxy Flooring	SIKA /FOSROC/PIDILITE /BASF/ APURVA/MYK ARMENT/ ARDEX ENDURA/ MAPEI/ MC-BAUCHEMIE/ CICO
83	Formwork Release Agent (Shuttering liquid), Clean Formwork release agent	FOSROC/CICO/BASF/ MC BAUCHEME/ EQUIVALENTAPPROVED
84	EPDM	AMEE RUBBER INDUSTRIES PVT LTD / BOGRA RUBBER PVT LTD / ANAND REDDIPLEX / ENVIROSEALS / EQUIVALENTAPPROVED
85	Aluminium roofing and cladding sheets	HINDALCO INDUSTRIES LTD / JINDAL ALUMINIUM LTD
86	Self-drilling Screw (for roofing and cladding	EJOT / HILTI/ROOFIX/BOSCH

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	sheets)	
87	Welding Electrode	ADOR WELDING LTD / ESAB/ EQUIVALENT APPROVED IF NOT AVAILABLE

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88	Dry stone cladding undercut anchor/SS Cramps	HILTI / FISHER / BLICK / BAGI / KIEL / TRIXEL / EQUIVALENT APPROVED IF NOT AVAILABLE
89	Calcium silicate board	RAMCO HILUX/ EQUIVALENT APPROVED
90	Fiber Mesh	IMPERIAL OVERSEAS / EQUIVALENT APPROVED
91	Polpy poline protection sheet (Expanded laminate polythilen roll)	SUPREME/ EQUIVALENT APPROVED
92	SS Modular Railing System	KICH / Q-RAILING / MAGNUM/ JINDAL/ RINOX
93	Vitrified / Porcelain cove Skirting	PELICAN OR EQUIVALENT APPROVED
94	Polyurethane Concrete flooring (Self Leveling Flooring)	ARDEX ENDURA / FOSROC / BASF / SIKA / MAPEI / MC-BAUCHEMIE
95	MDF Board	NUWUD / CENTURAY PLY BOARD / GREENPLY / SARDA PLYWOOD
96	Single Point locking handle without key for window	PULSE OR EQUIVALENT
97	Rubber Seals	ENVIROSEALS / ANAND REDDIPLEX / EQUIVALENT
98	Brush Strip	ENVIROSEALS / ANAND REDDIPLEX / EQUIVALENT
99	Cement Fibre Board	RAMCO / EVEREST / GYPROC/ CENTURY (ZYKRON) /
100	Self-supported Steel Roofing System	PROFLEX / EQUIVALENT
101	Silicon Paint / Water & Strain repellent Coating for stone or other	NEROLAC / ASIANPAINTS / ICI / KILLICK GUARD SPECIALITY PRODUCTS LTD / DOW CORNING / MYK LATICRETE /

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	Surfaces	PIDILITE
102	DUCO Paint	ICI, DUCO
103	SS Finish Wall Connecting Profile	DORMA KABA/ BENE/ MAARS/ GEZE
104	Norton Tape (Double sides) Adhesive tape	NORTON / SUPREME
105	PVC Strips	FIXOPAN / EQUIVALENT

LIST OF APPROVED MAKES OF ELECTRICAL WORKS

The following is the list of products and names of the approved manufacturer against each product.

SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
1.	PVC CONDUITS	PRECISION, POLYCAB, POLYPACK, BHARAT
2.	PVC CONDUIT ACCESSORIES	PRECISION, POLYCAB, POLYPACK, BHARAT
3.	PVC INSULATED, FLEXIBLE STRANDED COPPER CONDUCTOR FRLS WIRES	FINOLEX, RR KABEL (UNILAY), L&T, HAVELL'S, POLYCAB
4.	PVC INSULATED ARMoured, ALUMINIUM CONDUCTOR CABLES	KEC, RPG-ASIAN, FINOLEX, NICCO, RR KABEL, CCI, POLYCAB, HAVELS
5.	MODULAR SWITCHES, SOCKET OUTLET & MOULDED COVER PLATES	CRABTREE, SCHEINDER, ANCHOR ROMA , L&T, ABB, HAVELS, SCHNEIDER
6.	MINIATURE CIRCUIT BREAKERS (M.C.B)	LEGRAND, L&T ,HAGER, SIEMENS, ABB, HAVELL'S (CRABTREE),

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SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
7.	EARTH LEAKAGE CIRCUIT BREAKERS (ELCB)/RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)	LEGRAND, L&T ,HAGER, SIEMENS, ABB, HAVELL'S (CRABTREE),
8.	MOULDED CASE CIRCUIT BREAKERS (MCCB)	SIEMENS, L&T, ABB, MERLIN GERIN, LEGRAND, ENGLISH ELECTRIC, SCHNEIDER COMPACT NSX
9.	SWITCH FUSE UNITS WITH HRC FUSES FOR PANELS (TPN &TP)	L&T, SIEMENS, ABB, SCHNEIDER, ENGLISH ELECTRIC.
10.	AMMETERS, VOLTMETERS, PF METERS (ANALOGUE)	AUTOMATIC ELECTRIC, L&T (RISHAB), MECO, IMP, SCHNEIDER
11.	AMMETERS, VOLTMETERS, PF METERS (DIGITAL)	L&T (RISHAB), SCHNEIDER, SIEMENS, L&T (RISHAB)
12.	CURRENT TRANSFORMERS (CAST RESIN)	KAPPA, GILBERT MAXWELL, AUTOMATIC ELECTRIC, MECO, BHARATI
13.	ENERGY METERS (MECHANICAL)	UNIVERSAL, JAIPUR, HAVELL
14.	ENERGY METERS (ELECTRONIC)	L&T, RISHAB, SCHNEIDER, SIEMENS REICO, SECURE, MECO, ICD, ELECON
15.	TELEPHONE WIRES & CABLES	FINOLEX, RR KABEL, POLYCAB, SKYTONE, L&T, DELTON
16.	COMPUTER DATA CABLES (CAT 5/6)	LUCENT, AT&T, AMP,D-LINK
17.	TELEPHONE TAG BOX	KRONE, POUYET
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SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
18.	LOW TENSION SWITCHGEAR	L&T, SIEMENS, ABB, SCHNEIDER
19.	CABLE COMPRESSION GLANDS	COMET, PEECO, DOWELL, LAPP KABEL
20.	CABLE LUGS	DOWELL'S, LAPP KABEL, COMET PEECO
21.	INDUSTRIAL TYPE METALLIC PLUG SOCKETS	LEGRAND, CUTTLER & HAMMER, SIEMENS, SCHNEIDER, INDO KOPP, CLIPSAL
22.	DISTRIBUTION BOARDS	LEGRAND, L&T (HAGER), SIEMENS, ABB, HAVELL'S (CRABTREE), INDO KOPP, SCHNEIDER
23.	SELECTOR SWITCHES	KAYCEE, L&T SALZER
24.	INDICATION LAMPS (LED TYPE)	L&T SIEMENS, ABB, SCHNEIDER, ESSEN, BCH, VAISNAV, TECHNIC
25.	RISING MAINS	CONTROL & SWITCHGEAR, ZETA
26.	POWER CAPACITORS	ASIAN, EPCES, L&T, SCHNEIDER, MOMAYA, SEIMENS
27.	MS / GI CONDUITS	AKG, BEC, VIMCO, GUPTA, BHARAT
28.	MS / GI CONDUIT ACCESSORIES	SHARMA, RAMA
29.	TIMER	L&T / SEIMENS / MINILEC
30.	CABLE TRAYS	PROFAB / UBITECH / TECHNOFAB / OBO / LEGRAND / FRASER
31.	EARTH ELECTRODE	ASHLOK / GRAVIN
32.	UPS	SCHNEIDER-APC / CONSUL

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SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
		NEOWATT / HIREL-HITACHI/ EMERSON
33.	BATTERY BACK UP KIT & EXIT SIGNAGES	BAJAJ/ CROMPTON/ COOPER
34.	FLAME PROOF SOCKETS, SWITCHES	BALIGA/ COOPER/CND HI TECH
35.	RACK	SCHNEIDER/ RITTAL/COMMSCOPE/ PANDUIT
36.	POP UP BOX/NET BOX	A&H MEYER/ LEGRAND
37.	TV CABLES	SKYTON/ FINOLEX/ DELTON
38.	TERMINAL BLOCKS	DOWELL'S/ ELEMEX/ WAGO/ PHOENIX
41.	ELECTRIC MOTORS	SIEMENS/ABB/BHARAT BIJLEE/CROMPTON/KIRLOSKAR/L& T
42.	AIR CIRCUIT BREAKER	L&T – U POWER OMEGA/ SIEMENS 3 WL / SCHNEIDER MASTERPACT NW SERIES/ ABB
43.	MCCB	L&T D' SINE / LEGRAND / SIEMENS 3 VL / MERLIN GERIN COMPACT SERIES/ ABB TMAX/ GE RECORD RANGE / HAGER/SCHNEIDER
44.	PROTECTION RELAYS	L&T / SIEMENS / ABB / AREVA T&D/ ASHIDA
45.	CONTACTORS	L&T / SIEMENS / ABB / SCHNIEDER/ GE
46.	TIMERS ELECTRONIC	L&T / SIEMENS / GE/ ABB/
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SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
		SCHNIEDER
47.	SWITCH DIS-CONNECTOR FUSE UNITS	L&T / SIEMENS / ABB /SCHNIEDER/GE
48.	MCB/RCCB	LEGRAND/HPC/INDO KOPP/SIEMENS / HAGER / MERLIN GERIN / LEGRAND/ABB/ L&T/ GE/ SCHNIEDER/HAVELLS
49.	MCCB	L&T/ SIEMENS/ABB/LEGRAND/HAGER
50.	INDICATING LAMPS	L&T / SIEMENS / SCHNEIDER / VAISHNO / TEKNIC / ABB
51.	PUSH BUTTONS	ESBEE / SIEMENS / ABB / VAISHNO / TEKNIC/ L&T
52.	ISOLATORS	SIEMENS /ABB / BCH/ HAVELLS/ L&T/HANSU/HENSEL/SINTEX
53.	LOAD MANAGER	SIEMENS/ ABB/ L&T / SCHNEIDER/ CONZERV/ ALLEN BRADLEY (ROCKWELL)
54.	DIGITAL AMMETER & VOLTMETER	CONZERV / L&T / RISHABH /AE/IMP/MECO
55.	ANALOG AMMETER & VOLTMETER	RISHABH / IMP / AE/ L&T/SCHNEIDER
56.	DIGITAL ENERGY METER	CONZERV / L&T / ABB/SIEMENS /HPCL/UNIVERSAL/JAIPUR/REIL
57.	PVC CONDUIT & ACCESSORIES	PRECISION / POLYCAB / CLIPSAL
58.	POWER FACTOR METER	RISHABH / IMP / MECO / AE/ L&T
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SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
59.	CURRENT TRANSFORMER	KAPPA / BHARTI/ ASHMORE/ L&T/RISHABH / AE /MAXWELL/IMP/MECO/GILBERT
60.	HT XLPE POWER CABLES	GLOSTER/ CCI / KEC / FINOLEX / NICCO /KEI
61.	LT XLPE POWER CABLES	GLOSTER/ CCI / KEC / FINOLEX /LAPP KABEL / NICCO /RR KABEL /SBEE
62.	LT COPPER CONTROL CABLES	LAPP KABEL / CONCAB / CCI / RPG ASIAN / FINOLEX / RR KABELS/ SBEE/GLOSTER
63.	SIGNAL & INSTRUMENT CABLE	LAPP KABEL / CONCAB /RR KABEL/SBEE/ DIGILINK
64.	POWER CAPACITORS	SIEMENS/ EPCOS / L&T/ ABB/ SCHNIEDER / GE/NEPTUNE-DUCATI
65.	APFC RELAY	BELUKE /SIEMENS / EPCOS / L&T/ ABB/ SCHNEIDER/ NEPTUNE- DUCATI/ GE
66.	CABLE TRAY	INDIANA / MEK / SUNRISE / SUPER / PILCO / SINTEX
67.	ISOLATING SWITCHES	SIEMENS/ABB/L&T/ SCHNEIDER
68.	HRC FUSES	L&T / SIEMENS / GE/ ABB /EE
69.	TERMINAL BLOCKS	WAGO / LAPP INDIA / CONNECT WELL/ ELMEX
70.	POTENTIAL TRANSFORMERS	KAPPA / JYOTI/ BHARTI/AE / ASHMORE

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SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
71.	ROTARY SELECTOR SWITCH	KAYCEE / SALZER - L&T / SIEMENS / ABB
72.	CABLE GLANDS	COMET / EX-PROTECTA / DOWELS / LAPP KABEL
73.	CABLE LUGS	DOWELS / COMET / LAPP KABEL/ BRACKO
74.	MECHANICAL INTERLOCK	L&T / SCHNEIDER / ABB/ GE/SIEMENS
75.	XLPE CABLE JOINTING / TERMINATING KIT	RAYCHEM / M-SEAL/BIRLA 3M
76.	PROGRAMMABLE PROTECTION RELAY	MINILEC/ ABB/ L&T/ SIEMENS/ SCHNIEDER/ GE
77.	LT SANDWICH BUS DUCT	L&T/ GE/ C&S/ SIEMENS/ ABB/ SCHNIEDER
78.	STEEL STRUCTURE	SAIL/ESSAR/TISCO/ JINDAL
79.	LT SWITCHGEAR	L&T/SIEMENS/ABB/ SCHNIEDER
80.	POWER / CONTROL CABLES, WIRES	CCI / GLOSTER/ FINOLEX/ UNIVERSAL/ NICCO/ RPG
81.	INDICATION LAMP LED TYPE	BINAY/ SIEMENS/ L&T/ TEKNIC/ ABB
82.	LIGHT FITTINGS	PHILIPS/WIPRO/HAVELLS
83.	CEILING/ WALL FANS	BAJAJ/USHA/ORIENT/HAVELLS
84.	EXHAUST FANS	USHA/BAJAJ/ORIENT/ALMONARD
85.	WEATHER PROOF BOXES FOR	HANSU/ HENSEL/ SINTEX
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SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
	ISOLATORS, PUSH BUTTONS	
86.	HIGH MAST & STREET LIGHT POLES	BAJAJ/EQUIVALENT AS PER SPECIFICATION AND APPROVAL
87.	LIGHTNING PROTECTION	CAPE, DEHN, OBO, JMV, ABB

Note:

The following shall be got approved from Purchaser:

1. Samples of Conduit, conduit bends & junction box.
2. Samples of Switch box and outlet box with hylem sheet cover & switches.
3. Drawings & inspection for following:
 - (i) Distribution boards
 - (ii) Electrical switch boards
 - (iii) Street light poles & brackets.
 - (iv) Galvanised Raceways & its junction box.
 - (v) Flood light Tower
4. Samples for modular switches, sockets, grid & cover plate and their boxes.
5. Samples for telephone & computer data outlet box & outlet.
6. Samples of GI wires and strips.
7. All Electrical works shall be carried out by a licensed electrical contractor.

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Sl.	ITEM DESCRIPTION	APPROVED MAKES / MANUFACTURES
106	Water Vapour barrier Sheet	SUPREME / EQUIVALENT
107	Extruded Polystyrene	OWENS CORNING / DOW CORNING / SUPREME
108	Acrylic Modified Cementitious water Proofing Compound	CICO / ARMOURCRETE / STRUCTURAL WATER PROOFING COMPANY PVT LTD
109	Mechanical Couplers for Reinforcement steel	SANFIELDS / HALFEL / DEXTRA INDIA / ASCON/ UNITECH / TATA / SNTP MECHANICAL SPLICING SYSTEM /MOMENT / KRIDHAN /
110	Frosted / glass film	LG / 3M / GARWARE / DUPONT
111	Stone Sealer	ARDEX ENDURA / MYK LATRICRETE / KILLICK GUARD SPECIALITY / KERAKOLL/ AKEMI / PIDILITE
112	Food grade epoxy coating for water tank	BASF / PIDILITE / FOSROC / ASIAN/ SIKA / MYK ARMENT / STP LTD / MC-BAUCHEMIE
113	Stoneware pipes and Gully Traps/P Trap/S Trap	ANAND or Equivalent approved

NOTE:

- 1 For equivalent approved, ISI or approved marked items included above, if opted by contractor, specific approval to be taken by contractor for make, before procurement and use.

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Annexure -1 (Civil, Structural, Plumbing, Electrical & Misc. work for EVM Plant under RGM)						
SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
		EXCAVATION				
1.00	1	Excavation in all types of soil, including murrum, for foundations of wall, columns, plinth beams, basement, raft, ducts, trenches, underground sumps, septic tanks, soak well, manhole chambers, gully chambers, including shoring, strutting, bailing out water/pumping off water if required, re-filling the trenches , foundation pits, ramming, watering consolidating in 15 cms to 20 cms layers as directed , removing and stacking simultaneously the excavated stuff any where within the site area complete as directed - From NGL to 1.5 m depth (Refer Item no. 1.01 for detailed specifications in Section IV)	CU.M.		242.00	-
2.00	1.1	Excavation in all types of soil, including murrum, for foundations of wall, columns, plinth beams, basement, raft, ducts, trenches, underground sumps, septic tanks, soak well, manhole chambers, gully chambers, including shoring, strutting, bailing out water/pumping off water if required, re-filling the trenches , foundation pits, ramming, watering consolidating in 15 cms to 20 cms layers as directed , removing and stacking simultaneously the excavated stuff any where within the site area complete as directed - For depth exceeding 1.5 m but up to 3.0 m (Refer Item no. 1.02 for detailed specifications in Section IV)	CU. M.		148.00	-
3.00	1.2	Filling in plinth with selected excavated earth and rock stuff available within site in layers of thickness 200mm including screening if required, watering, ramming and compactin as directed using mechanical plate compactor and / vibro-roller and/ Power roller of 8 to 12 MT, testing cost for suitability of avialable earth/rock & compaction of each layer,cost of transportation,loading & unloading anywhere within site complete as directed. (Refer Item no. 1.07 for detailed specifications in Section IV)	CuM		117.00	-
4.00	1.3	Filling in ground other than plinth with selected excavated earth and rock stuff available within site , for land development etc. within the site, to required level, spreading in layers of thickness 200mm, including screening if required/as directed, watering, ramming, consolidating using power roller of 8 to 12 MT including testing cost for suitability of avialable earth/rock & compaction of each layer,cost of transportation,loading & unloading anywhere within site complete as directed. (Refer Item no. 1.08 for detailed specifications in Section IV)	CuM		-	-
5.00	1.4	Providing and filling in plinth with selected earth/murum brought from approved outside site sources, in mutiple layers of 200mm thickness including freight, transportation, loading, unloading, screening if required, watering, ramming, consolidating with mechanical compactor / vibro roller / power roller of 8 to 12 MT, testing cost for suitability of earth/murum & compaction of each layer,etc complete as directed.(Refer Item no. 1.09 for detailed specifications in Section IV)	CuM		154.00	-
6.00	1.5	Providing and filling in ground other than plinth, for land development etc. with selected earth/murum brought from approved outside site sources in mutiple layers of 200mm thickness including freight, transportation, loading, unloading, screening if required, watering, ramming, consolidating with mechanical compactor / vibro roller / power roller of 8 to 12 MT, testing cost for suitability of earth/murum & compaction of each layer,etc complete as directed.(Refer Item no. 1.09 for detailed specifications in Section IV)	CuM		68.00	-
7.00	1.6	Providing and laying in a compact manner 150 mm thick metal soling in plinth in two layers using average 60 to 80 mm size stones simillar to which used for concrete and RCC works, including test of materials, filling in the voids with largest possible simillar stones, covering and levelling the surface with sand/ layer of murum, dry compaction followed by watering, topping up with sand / murrum and consolidation with mechanical plate compactor etc. all complete as directed.(Refer Item no. 1.11 for detailed specifications in Section IV)	Cum		38.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
8.00	1.7	Providing and laying dry brick on edge soling with approved quality well burnt brick having minimum crushing strength of 50 Kg per Sq cm including laying bricks in plain / diagonal / herring bone pattern over well compacted under layer (layer of sand if provided shall be paid under relevant item) filling the joints with fine sand etc complete as directed.	Cum		25.00	-
		TOTAL OF EXCAVATION				-
		CONCRETE				-
9.00	2	Providing and laying machine mixed plain cement concrete (PCC) 1:4:8 in volumetric proportion (1 parts of cement: 4 part coarse sand : 8 part stone aggregates of size 37 mm and down) for specified thickness, for foundations below masonry/RCC walls, column footings, sunken floor terraces at any height above plinth level, raft at any depth below floors, pavements, roads, plinth protection, bed blocks, anchor blocks, etc. including centring and shuttering if required, laying spreading, ramming, consolidating as per requirement and curing etc. complete as directed. (Refer Item no. 2.03 of Section IV for detailed specifications)	CUM		38.00	-
10.00	2.1	Providing & laying in position machine mixed and machine vibrated M-25 Grade cement concrete of controlled grades having minimum cement content as specified under the technical specification for reinforced cement concrete structural elements in any shape, size, thickness or depth and design viz. foundations, columns, beams, slabs, raft, floor plinth beams, plinth beam ledges, window sills, copings, thin band beams, walls, parapets boxes, folded plates, chajjas, mullions, retaining walls, fins, staircases, overhead and underground water and other fluid tanks, statically loaded foundation rafts/floor, water troughs, manhole slab, septic tank slab, soak well slab, fins, fins forming box louvers, facias, eaves, arches, domes, road kerbs, etc. its concrete elements in any shape, size, thickness/depth and design as per structural design and as directed in specified compressive strength expressed in N/mm ² at 28 days as per IS 456-2000 using 20mm or as specified size of crushed stone aggregates including design of concrete mixes as per procedure specified in IS 10262, approval and establishment of concrete mix as per design mix , automatic controlled weigh batched proportioning for all ingredients including water and admixtures, PC/PLC controlled batching machine having vividly display for real-time monitoring and collection of computer data of batch reports and printing batch reports on daily basis for submission to site engineer, cost of admixtures, necessary lift and lead as specified, pumping or bailing out water, finishing concrete surfaces, curing etc. complete but excluding centring/shuttering and reinforcement. For concrete grade M- 25 at all levels below and up to highest plinth level. (Refer Item no. 2.06 of Section IV for	CUM		38.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
11.00	2.2	Providing & laying in position machine mixed and machine vibrated cement concrete of controlled grades having minimum cement content as specified under the technical specification for reinforced cement concrete structural elements in any shape, size, thickness or depth and design viz. foundations, columns, beams, slabs, raft, floor plinth beams, plinth beam ledges, window sills, copings, thin band beams, walls, parapets boxes, folded plates, chajjas, mullions, retaining walls, fins, staircases, overhead and underground water and other fluid tanks, statically loaded foundation rafts/floor, water troughs, manhole slab, septic tank slab, soak well slab, fins, fins forming box louvers, facias, eaves, arches, domes, road kerbs, etc. its concrete elements in any shape, size, thickness/depth and design as per structural design and as directed in specified compressive strength expressed in N/mm ² at 28 days as per IS 456-2000 using 20mm or as specified size of crushed stone aggregates including design of concrete mixes as per procedure specified in IS 10262, approval and establishment of concrete mix as per design mix, automatic controlled weigh batched proportioning for all ingredients including water and admixtures, PC/PLC controlled batching machine having vividly display for real-time monitoring and collection of computer data of batch reports and printing batch reports on daily basis for submission to site engineer, cost of admixtures, necessary lift and lead as specified, pumping or bailing out water, finishing concrete surfaces, curing etc. complete but excluding centring/shuttering and reinforcement. For concrete grade M-25 at all levels above highest plinth level upto 12mtr height (Refer Item no. 2.08 of Section IV for detailed specifications)	CUM		25.00	-
12.00	2.3	Providing and fixing Precast concrete slab perforated type for shelves, ledges, trench / pit / chamber covers/gutter covers (50 to 150 mm thick) etc. as per drawing in controlled concrete of grade M-25, to cast, cure, hoisting, fixing in position including necessary form work (providing exposed concrete finish for visible faces), grouting holes / grooves, inserts, projections, providing and fixing lifting hooks using MS rounds etc. grouting and pointing of joints finishing neat etc. complete but excluding reinforcement steel etc complete as per the drawing and as directed. (Refer Item no. 2.12 of Section IV for detailed specifications)	CUM			-
13.00	2.4	Providing and grouting the foundation bolts/pockets, base plates etc with ready mixed non shrink, free flow, self levelling, cementitious grout making holes if necessary in concrete, curing etc. as per the recommendations of the manufacturer, complete as directed. (Refer Item no. 2.20 of Section IV for detailed specifications)	CUM		0.15	-
14.00	2.5	Providing and laying 150mm X 150mm size cement concrete & cement finish vata in proportion 1:2:4 (1 cement: 2 course sand : 4 part 10mm or down graded stone aggregates) including making and finishing zaries in wall etc. finish with good surface as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	RM		25.00	-
15.00	2.6	Providing and erecting in position form work shuttering, centering & boxing using approved quality new plywood and metal plates shuttering materials of approved quality for concrete elements vertical, horizontal, inclined, circular, curved etc. in all sizes, shapes and designs as per drawing including necessary staging/false staging at all intermediate levels, scaffolding, bolts/nuts, fastener nails, wires for keeping in position till concrete is laid and members have acquired required strength, removal thereafter, applying shuttering oil etc. complete as directed. Laminated plywood shall be essentially used for beam bottom and beam side in order to minimise the joints in shuttering work. Work to be carried out at all levels below ground level and up to highest plinth level. (Refer Item no. 2.13 of Section IV for detailed specifications)	SQM		325.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
16.00	2.7	Providing and erecting in position form work shuttering & boxing using new plywood and metal plates shuttering materials of approved quality for concrete elements vertical, horizontal, inclined, circular, curved etc. in all sizes, shapes and designs as per drawing including necessary staging at all intermediate levels, scaffolding, bolts/nuts, fastener nails, wires for keeping in position till concrete is laid and members have acquired required strength, removal thereafter, applying shuttering oil etc. complete as directed. Laminated plywood shall be essentially used for beam bottom and beam side in order to minimise the joints in shuttering work Form Work in superstructure to all heights above highest plinth level upto 12mtr for all concrete elements of any shape, size & direction etc complete as directed. (Refer Item no. 2.14 of Section IV for detailed specifications)	SQM		156.00	-
17.00	2.8	Supplying and mixing with cement for cement concrete/cement mortar, liquid integral water proofing compound of approved make & quality as per the specific item of work/as directed conforming to IS : 2645 and manufacturer's specifications etc. complete as directed including the cost of testing etc. Contractor to submit a copy of invoice for each supply. (Refer Item no. 2.18 of Section IV for detailed specifications)	Litre		5.00	-
18.00	2.9	Providing and filling Silicon sealant of approved make and grade in the construction/ expansion joints including cleaning the joint providing primer etc. as per specifications of the manufacturer and sealing/ finishing etc for size 10 mm wide x 6 to 8mm deep , complete as directed.	RM		10.00	-
19.00	2.11	Providing and laying Silicon sealant (GE,DOW CORNING or equivalent approved) to expansion joint, grooves etc. including providing and fixing backer rod and masking tape as per manufacturers specification or as directed by the engineer in charge complete (25 mm wide and 12 mm deep)	RM			-
20.00	2.12	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 8 mm dia bars. (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	No.		5.00	-
21.00	2.13	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 10 mm dia bars. (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		5.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
22.00	2.14	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 12 mm dia bars. (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		5.00	-
23.00	2.15	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 16 mm dia bars. (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		6.00	-
24.00	2.16	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 20 mm dia bars. (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		6.00	-
25.00	2.17	Providing and Fixing of reinforcement steel dowel bar in the existing RCC elements by re-bar method including machine drilling with minimum drilling hole dia. shall be 1.5 times of the dia. of dowel bar to be inserted (or as per the recommendations of the manufacturer) and up to suitable inset depth as per the recommendation of manufacturer), providing and applying of necessary anchoring mortar chemicals such as epoxy based resin and hardener of approved make like HILTI India / Fischer or equivalent approved and work to be carried through the competent auhtorised agency/applicator using all standard equipment cum accessories such as pneumatic dispenser, injection adapter, static mixer tube etc including all materials, labours, tools, etc complete as directed for 25 mm dia bars. (Reinforcement shall be paid under relevant item of this tender), complete as directed. (Item self explanatory - No detailed specifications in Section IV for detailed specifications)	NO.		6.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
26.00	2.18	Providing and fixing Pre-cast Cement Concrete grills for ventilation in cement concrete grade M20 having all fins and members minimum 75mm to 100mm thick in required size, shape and design, fixing in all types of walls with cement mortar (1:2) and finishing with neat cement slurry at all height etc complete as directed.	SQM		5.00	-
27.00	2.19	P/A. concrete bonding compound S.B.R. Latex to old /new concrete surface at all level. Vertical & Horizontal planes as directed by engineer after necessary chipping & cleaning surface dust free.	Litre		3.00	-
28.00	2.2	Providing, fabricating and fixing in position 8 mm dia. TMT reinforcement steel bars of minimum grade Fe 415 confirming to IS 1786 - 1985 of approved or equivalent make for RCC structures as per design including transporting, unloading and incidental charges for handling cutting, bending, and binding with two strands of annealed steel wire of 18 gauge, welding if necessary etc. complete as directed. <i>Note:- Approved make TMT reinforcement steel bar shall conform to IS 1786 shall be Fe 500 or higher grade</i>	Kg		2,567.00	-
29.00	2.3	Providing, fabricating and fixing in position 10 mm dia. TMT reinforcement steel bars of minimum grade Fe 415 confirming to IS 1786 - 1985 of approved or equivalent make for RCC structures as per design including transporting, unloading and incidental charges for handling cutting, bending, and binding with two strands of annealed steel wire of 18 gauge, welding if necessary etc. complete as directed. <i>Note:- Approved make TMT reinforcement steel bar shall conform to IS 1786 shall be Fe 500 or higher grade</i>	Kg		1,540.00	-
30.00	2.4	Providing, fabricating and fixing in position 12 mm dia. TMT reinforcement steel bars of minimum grade Fe 415 confirming to IS 1786 - 1985 of approved or equivalent make for RCC structures as per design including transporting, unloading and incidental charges for handling cutting, bending, and binding with two strands of annealed steel wire of 18 gauge, welding if necessary etc. complete as directed. <i>Note:- Approved make TMT reinforcement steel bar shall conform to IS 1786 shall be Fe 500 or higher grade</i>	Kg		2,054.00	-
31.00	2.5	Providing, fabricating and fixing in position 16 mm dia. TMT reinforcement steel bars of minimum grade Fe 415 confirming to IS 1786 - 1985 of approved or equivalent make for RCC structures as per design including transporting, unloading and incidental charges for handling cutting, bending, and binding with two strands of annealed steel wire of 18 gauge, welding if necessary etc. complete as directed. <i>Note:- Approved make TMT reinforcement steel bar shall conform to IS 1786 shall be Fe 500 or higher grade</i>	Kg		1,650.00	-
32.00	2.6	Providing, fabricating and fixing in position 20 mm dia. TMT reinforcement steel bars of minimum grade Fe 415 confirming to IS 1786 - 1985 of approved or equivalent make for RCC structures as per design including transporting, unloading and incidental charges for handling cutting, bending, and binding with two strands of annealed steel wire of 18 gauge, welding if necessary etc. complete as directed. <i>Note:- Approved make TMT reinforcement steel bar shall conform to IS 1786 shall be Fe 500 or higher grade</i>	Kg		1,027.00	-
33.00	2.7	Providing, fabricating and fixing in position 25 mm dia. TMT reinforcement steel bars of minimum grade Fe 415 confirming to IS 1786 - 1985 of approved or equivalent make for RCC structures as per design including transporting, unloading and incidental charges for handling cutting, bending, and binding with two strands of annealed steel wire of 18 gauge, welding if necessary etc. complete as directed. <i>Note:- Approved make TMT reinforcement steel bar shall conform to IS 1786 shall be Fe 500 or higher grade</i>	Kg		1,027.00	-
						-
		TOTAL OF CONCRETE				-
		BRICK WORK				-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
34.00	3	Providing and constructing brick masonry in any shape in machine mixed Cement Mortar (CM) 1:6 (1 part cement and 6 part coarse sand) in all works with approved quality bricks having minimum crushing strength 40 Kg./Sq.cm including all necessary scaffolding, racking out the joints, curing etc. complete as directed in foundation at all levels below and up to highest plinth level. (Refer Item no. 3.01 of Section IV for detailed specifications) Note:-Strength of burnt clay brick shall be minimum 60Kg./Sq.cm instead of 40 Kg./Sq.cm	CUM		22.00	-
35.00	3.1	Providing and constructing brick masonry in any shape in machine mixed Cement Mortar (CM) 1:6 (1 part cement and 6 part coarse sand) in all works with approved quality bricks having minimum crushing strength 40 Kg./Sq.cm including all necessary scaffolding, racking out the joints, curing etc. complete as directed in superstructure at all heights above highest plinth level (Refer Item no. 3.02 of Section IV for detailed specifications) Note:-Strength of burnt clay brick shall be minimum 60Kg./Sq.cm instead of 40 Kg./Sq.cm	CuM		42.00	-
36.00	3.2	Providing and constructing brick masonry in partition walls in any shape & for all works with approved quality bricks having minimum crushing strength 40 Kg./Sq.cm, at all levels in machine mixed CM 1:4 (1 part cement and 4 part coarse sand) including scaffolding, racking out joints, providing & laying reinforcement of 2 Nos. 6 mm dia bars at every fourth course or 25 mm x 1.2 mm iron hoop in every 3rd course, curing, etc. complete as directed at all levels below and above highest plinth level.. (Rate includes the cost of MS bars or iron hoop). (Refer Item no. 3.03 of Section IV for detailed specifications) FOR 115MM THICK PARTITION WALLS	SqM		13.00	-
		TOTAL OF BRICK WORK				-
		Aluminium/Wood Work				
37.00	4	P/F Satin stainless steel grade 316 pull handle of approved or equivalent make, including the cost of screw and other incidental charges complete. For size 150 mm	No.		16.00	-
38.00	4.1	Providing and fixing satin stainless steel grade 316 pull handle of approved or equivalent make , including the cost of screw and other incidental charges complete. For size 300 m,m	No.		4.00	-
39.00	4.2	Providing and fixing Satin Stainless steel finish grade 316 floor mounted door stopper approved or equivalent make, including the cost of screw and other incidental charges complete.	No.		8.00	-
40.00	4.3	Providing and fixing Satin SS finish stainless steel grade 304 tower bolt of approved or equivalent make, including the cost of screw and other incidental charges complete For size 250mm x 12 mm	No.		21.00	-
41.00	4.4	Providing and fixing on aluminium/Flush door Satin stainless steel finish grade 316 of approved or equivalent make lock with half cylinder one side key of equivalent make as approved including the cost of screws etc. complete	No.		5.00	-
42.00	4.5	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.	No.		8.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
43.00	4.6	Providing and fixing powder coated aluminium (minimum thickness of powder coating 50 micron) frame works for doors, windows, ventilators and partitions with extruded built-up standard tubular sections / appropriate Z sections and other sections of approved or equivalent make conforming to IS: 733 and IS: 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold-fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/Neoprene felt, Silicon sealant of approved make etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing/paneling, CP Brass/stainless steel screws, all complete as per architectural drawings and the direction of the Engineer - in- charge, (Cost of glazing / paneling shall paid separately as per the respective items). Aluminium extruded sections for door shutters, window shutters (sliding, casement, folded, side hung, top hung or other etc all types of windows/ventilators) louvers, partitions, snap beading, U beading, Channels etc all are included under this item. The sliding arrangement for door/windows etc. through rollers, pivots or any other fitments are also included under the item. microwave cured EPDM rubber gasket, wool pile, Dash Anchor fasteners of HILTI HRDUGT or equivalent, 4mm thick solid aluminium corner cleat, baker rod of avg. 10 mm size, Termite treated seasoned teak wood as infill material to install hardware, Silicon sealant, etc. are also included under the item. Subframe section also paid in this item only. Only the aluminium sections shall be measured for payment in Kg. Cost of all other materials, consumables etc. as above is	KG		810.00	-
44.00	4.7	Providing & Fixing 4mm thick Compact sheet in aluminium door and partitions. Compact sheet shall be made from solid grade compact High Pressure Laminate manufactured under high pressure and temperature with bunch of kraft papers and decorative papers including approved quality PVC/ neoprene gasket etc complete as directed. (Cost of aluminium snap beading and aluminum sections shall be paid separately against the respective item)	SQM		28.00	-
45.00	4.8	Providing and fixing toughened glass of 5.50mm thickness glazing in aluminium door, window, ventilator shutters and partitions with PVC/ neoprene gasket etc. complete as per the architectural drawings and as directed. (Cost of aluminium snap beading and aluminum sections shall be paid separately against the respective item)	SQM		50.00	-
46.00	4.9	Providing and fixing concealed lock in sliding windows of approved make & shade as directed. Basic price of concealed lock shall be of Rs 300/- per No	No.		19.00	-
47.00	4.11	Providing and fixing Aldrop of Stainless Steel (SS) 316 grade and of approved size and make including all the fixing accessories as per the recommendations of manufacturer etc complete as directed. Basic rate of Aldrop Rs 1250 per No	No.		5.00	-
48.00	4.12	Providing and fixing door frame of size 125mm x 62mm of Sal Wood with two rebates and grooves as per architectural details, frame shall be fixed with masonry/RCC works by providing and fixing of special frame anchors of HILTI/equivalent approved make as per manufacturers recommendations, minimum four anchors on each legs including provision in the frame for fixing mortise lock, door closer, tower bolts, stoppers, aldrops etc including two or more coats of first quality synthetic enamel paint of approved make over a coat of primer or four stage polishing on the wood surfaces prepared with application of two or more coats of approved make wood putty cum primer etc complete as directed.	RM		0.00	-
49.00	4.13	Providing and fixing fly proof S.S. wire mesh to window shutters with aluminium beading (which will be paid separately under respective aluminium item).	KG		29.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
50.00	4.14	Providing fabricating and fixing 4mm thk. ACP cladding of approved make & shade at all heights with necessary Alu. section Sub frames of size 50mm X 25mm X 2mm thick, minimum 20 micron colour anodized finish of approved make, Supportive MS structure as per Architectural shapes & to withstand wind pressure of 190Kg/Sqmt. Sub frames, MS structure and Cleats shall be fixed to Civil structure with necessary clamps, Galvanized M.S brackets and anchor fasteners. All clamps and brackets shall be Hot dip galvanized minimum 80 microns thick and shall conform to IS:4759-1996. Any other accessories such as fastening straps, nuts, bolts, rivets, washers, etc. other than anchor system shall be of Indian standard grade. All joints of ACP must be sealed with DOW CORNING 789 weather sealant or equivalent of approved colour. (Rate shall include providing open cell polyethylene backer rods, weather sealant etc. complete as per requirements and as directed by the Engineer In charge. The weather sealant shall be of approved or equivalent	SQM		11.00	-
51.00	4.15	Providing & fixing Stainless Steel Hinge 304 grade Satin finish butt hinges of sizes 125x75x3mm with 4 Nos. Ball Bearing of approve make , including necessary screws etc. complete as directed by Engineer In charg	No.		59.00	-
		TOTAL OF Aluminium/ WOOD WORK				-
		FINISHING				-
52.00	5	Providing and applying 12 mm thick plain cement plaster finish at all heights and below highest plinth level in Cement Mortar (CM) 1:4 (1 part cement: 4 parts sand- 50% coarse and 50% fine) in line, level and plumb to the walls, concrete elements, beams, ceiling, stair, columns, pardis, including making plaster bands, stripes, moulds, pattas, grooves etc, over any brick or concrete surface as specified including scaffolding, curing and finishing smooth, complete as directed.	SqM		22.00	-
53.00	5.1	Providing and applying 19 mm thick plain cement plaster finish in two layers with first coat of 12mm thick with Cement Mortar (CM) 1:4 (1 part cement: 4 parts sand- 50% coarse and 50% fine) in line, level and plumb and second coat of 7 mm thick with CM (1:2) (1 part cement : 2 part fine sand) to the walls, concrete elements, beams, ceiling, stair, columns, pardis, including making plaster bands, stripes, moulds, pattas, grooves etc, over any brick or concrete surface as specified including scaffolding, curing and finishing smooth, complete as directed at all heights and below highest plinth level.	SqM		364.00	-
54.00	5.2	Providing and applying 19 mm thick sand faced cement plaster in two coats at all heights below and above highest plinth level with first coat of 12 mm thickness with cement mortar 1:4 (1part cement: 4 part of coarse sand) and top coat of 7 mm thickness with cement mortar 1:3 (1part cement: 3 parts of coarse sand) finishing using sponge to give uniform finish, on all types of concrete/brick surfaces including making plaster bands, stripes, pattas, grooves, drip moulds as per drawing/details, including scaffolding, curing etc., complete as directed.	SqM		254.00	-
55.00	5.3	Providing and applying 25 mm thick water proof cement plaster in two layers of 15 mm under layer and 10 mm thick top layer both in C M 1: 3 (1 part cement: 3 part sand -50% coarse and 50% fine) in line, level and plumb at all heights below and above highest plinth level, including adding water proofing compound of approved quality and make as per manufacturer's specifications necessary scaffolding curing etc complete as directed. (Quantity of waterproofing admixture added, shall be measured and paid for under relevant item).	SqM		11.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
56.00	5.4	Providing and applying neat cement finish to the plastered surface @ 2.2 Kg per SqM, including scaffolding, rubbing smooth with steel trowel / planer at all heights and below and above highest plinth level, curing etc. complete as directed.	SqM		11.00	-
57.00	5.5	Providing and applying plastic emulsion paint of approved make and desired shade , on new / old work including the preparation of surface for painting, applying primer and putty, rubbing the surface, again applying primer, applying plastic paint in two or more coats to give an even shade , at all heights below and above highest plinth level, scaffolding etc complete as per manufacturer's specifications and as directed	SqM		353.00	-
58.00	5.6	Providing and applying acrylic based, anti fungus exterior paint like Sandtex Matt or equivalent of approved make and shade on new/old work including preparation of surface for painting, applying primer and two or more coats of paint as per manufacturer's specifications, at all heights below and above highest plinth level, two or more coats to give an even shade scaffolding, curing etc. complete as directed.	SqM		247.00	-
59.00	5.7	Providing and applying 7 mm thick plaster to the RCC elements like ceiling, beams, RCC staircase etc in Cement Mortar (CM) 1:4 (1 part cement: 4 parts sand- 50% coarse and 50% fine) in line, level and plumb to the walls, concrete elements, beams, ceiling, stair, columns, parris, including making plaster bands, stripes, moulds, pattas, grooves etc, over any brick or concrete surface as specified including scaffolding, curing and finishing smooth, complete as directed.	SqM		16.00	-
60.00	5.8	Providing and fixing high tensile strength acid and alkali resistant latex metal free composition nontoxic Fiber Glass Mesh (FGM) of minimum density of 145 GSM (Gram per SqM) and 5mm X 5mm meshing size for reinforcement of surfaces during all kinds of plaster works at the junction of masonry work and RCC work or on any other place as directed to receive plaster including fixing the FGM in 300mm wide patta with Cement mortar (1 part cement :1 part fine sand) stretched properly and at all the heights below and above highest plinth level including scaffolding etc complete as directed.	SqM		35.00	-
61.00	5.9	Providing and fixing 600x600X16mm modular False Ceiling with Pre-coated Silhouette (Black inside) suspension system in level at the required position at 600mm centers. G.I main frame is suspended from the soffit/RCC at 600mm centers apart with the help of soffit slab roll plug with special adjustable suspender. Pre- coated cross ties section snap fixed at the main section at 600 mm to from 600mm x 600mm. Ceiling panels with Bevelled edge, size 595 x 595mm are laid in to the grid to be placed in position on to the panels. Suspension system for grid ceiling should be standard make, which consist of hook clip with J wire, 2.5mm dia wire of required length and M6 Fastener as per the Architect drawing.GRID SUSPENSION SYSTEM, contractor shall provide suspension wires if required on four corner of the light. For round down lighter, AC grill cutting, etc. contractor shall make cut as per requirement without extra cost. 3mm commercial ply with light cut out shall be installed above tile where light is installed.	SqM		85.00	-
						-
		TOTAL OF FINISHING				-
						-
		FLOORING				-
						-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
62.00	6	Providing and laying pre-polished hand / machine cut green Kota stone of uniform shade of size 11" X11",11" X17", A7" X17" 17" X23" , 23" X23" or in required size as per drawing , 25 to 30 mm thick in flooring as per approved pattern over average 30 mm thick cement mortar 1:4 (1 part cement :4 part coarse sand) including spreading neat cement slurry @ 4.4 Kg / sq m with flush pointing of the joints with cement paste mixed with matching green colour, curing, machine / hand polishing ,cleaning with oxalic acid, wax polishing moping the finished surface of flooring with water and kerosene for 10 days etc. complete as directed	SqM		188.00	-
63.00	6.1	Providing and laying pre-polished machine cut green Kota stone of uniform shade in required size as per drawing,18 to 20 mm thick in skirting / dado flush with plaster with a groove or projecting as per detail / approved pattern over a bedding of 12 mm thick cement mortar 1:4 (1 part cement :4 part coarse sand) including spreading neat cement slurry with flush pointing of the joints with cement paste mixed with matching green colour, curing, machine / hand polishing, wax polishing moping the finished surface with water and kerosene for 10 days etc. complete as directed. The joints of skirting / dado to be matched with flooring without any extra cost. 285.00 SQ.M. NDDB	SqM		6.00	-
64.00	6.2	Providing and laying 50 mm thick IPS flooring with under layer of 38 mm thickness and top layer of 12 mm thickness complete as directed, 1:2:4 (1 part cement, 2 part coarse sand and 4 part stone aggregate 12.5 mm and down graded) finished smooth with top layer of 12 mm thick mortar in CM 1:2 (1 part cement : 2 part coarse sand)and cement slurry @ 2.2 Kg / Sq.M including rubbing/ grinding the top surface to match, including rounding off the junction and corners with floors and walls, necessary construction joints, finishing the top surface smooth / chequered or broom, curing etc. complete as directed.	SqM		41.00	-
65.00	6.3	Providing and laying 18 mm. to 20 mm thick pre-polished to mirror finish machine cut approved quality Granite stone of required size & shape (length and width of the stone slab), colour in approved pattern, single piece in skirting , dado , risers of uniform colour, texture and pattern over 12 mm thick cement mortar 1:3 (1 part cement : 3 part coarse sand) with cement paste @ 4.4 Kg/SqM filling of joints with white cement / cement mixed with colour pigments to match the shade, applying epoxy based damp proof coating on the base concrete/wall surface, polishing the exposed edges as per the drawing, necessary curing, polishing, protection of finished surface, cleaning the same finally etc. complete as directed.The stone used should be in one single long piece up to 1500mm length as per the drawing. Only finished granite work shall be measured & considered for payment. Basic rate of Granite Rs 2200 / Sqm	SqM		5.00	-
66.00	6.4	Providing and laying self finish cement concrete of grade M-25 in self finished flooring of 75 to 150 mm thickness or as specified in drawing over prepared sub-base in alternate panels of area upto 12 SqM and longer side up to 3.5 M or as per site conditions in line and level maintaining slope as per drawing including Formwork using MS channels of required height , compacting with needle and surface vibrator, levelling, finishing smooth with a float of cement or cement mixed with floor hardener, curing, providing and cutting the concrete floor for grooves 6mm wide X 10mm deep, contraction/ expansion joints of 25mm wide and depth as per drawing by cutter machine, providing necessary steel reinforcement, curing etc complete as per the drawing / as directed. (Reinforcement, floor hardener, expansion joint filler shall be measured and paid separately in relevant tender items)	CUM		35.00	-
67.00	6.5	Labour charges for providing half round moulding on edges of kotah stone, green marble stone and granite stone by using all tools such as special grinding and art cutter machines including making the edges mirror polished etc complete as directed.	RMT		11.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
68.00	6.6	Labour charges for making antiskid strip in granite stone 25 mm width & 5 mm deep etc complete.	RMT		11.00	-
69.00	6.7	Providing & laying 500 micron gauge polythene sheet below grade slab, PCC, RCC slab etc. to the required level including supplying , loading and Unloading, storing transportation, laying, sealing of junctions and over laps up to 200mm, all leads and lifts and overlap included all complete	SqM		228.00	-
70.00	6.8	Providing & laying 10-12mm premium /1st quality vitrified tiles of approved make having size 600x600 mm or any approved size and shade having plain edges in flooring/dado/skirting over average 20 mm thk. Cement mortar 1:4 (1 part cement: 4 part coarse sand) bed laid to requisite ,line, level & slope, fixed with cement slurry @ 4.4kg/sqm of honey like consistency, making 3-5mm grooves using spacers & filling of joints with pigmented tile grout of approved make to match the shade etc. in flooring, providing & fixing skirting/ dado in line and level over the 12 mm thk. cement plaster in neat cement slurry @ 4.4kg/sqm of honey like consistency, with cleaning the area with water or water with mild acid etc. all complete as directed BASIC RATE OF TILES RS.700/- PER SQM.Thickness of tiles may vary as per selection of tiles.	SqM		63.00	-
71.00	6.9	Providing and fixing PVC strips 3/5 mm & 50 mm wide in proper vertical position in IPS or Cast in Siitu. Flooring in line and level as per the direction.	RMT		12.00	-
72.00	9.11	Providing and laying 1st quality vitrified tiles minimum 7mm to 8mm thick of approved make, shade and size in skirting and dado laid with 4mm wide and 4mm deep joints (using PVC spacers at 100 mm spacing) at all around the tile edges, shall be set in providing and laying/applying high polymer modified cement based tile adhesive bed of 5mm thick as per manufacturers specifications and using suitable steel notch trowel over bedding of 12mm thick cement mortar 1 : 3 (1 part cement : 3 part coarse sand) laid to requisite line, level and plumb, either flush with the wall surface or uniformly projecting as per details / directed including cutting / making holes, raking & cleaning the joints and filling the joints with resin based epoxy grout of matching/required colour, curing and cleaning with mild acid etc complete as directed. (Resin based epoxy grout for joint filler shall be paid under the relevant item of tender)	SqM		22.00	-
73.00	9.12	Providing and laying cement water-proofing of average 115 mm thick for balcony, terrace etc at all the levels, with layer of 20 mm thick cement mortar 1:3 (1 part cement : 3 part coarse sand)mixed with water proofing compound of approved make and as specified by the manufacturer, laying brick bats of required size impregnating in to the base mortar bed with gap of 12 mm all around according to slope, level and curing the same, the gaps around brick bats filled with cement mortar 1:3 (1 part cement : 3 part coarse sand) mixed with waterproofing compound as above , 15 to 20 mm layer above brick bats, curing and testing of water proofing, laying China Mosaic flooring work over the prepared surface in slope using broken equal pieces of white glazed tiles not more than 25 to 37 mm wide and long and colored glazed tiles equal pieces for making pattas, vattas etc. as per details with necessary bedding in CM (1:4) laid in required slope, consolidating with wooden hammer, filling joints with Birla white cement, cleaning the surface and acid washing etc. complete as directed at any height. 1. The Work to be carried out at all the heights. The individual rates shall be inclusive of all lifts, lead and handling of materials, necessary scaffolding and staging, 2. Rates shall be inclusive of the slopes to be provided in all the above flooring items as directed and as per the drawings, guarantee for 10 years. The work should be carried out through an approved specialised agency like India Water Proofing Co. or equivalent.	SqM		-	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
74.00	9.13	Providing and laying vacuum de-watered floor finish over and above concrete grid of M20/M25 or any surface as specified, involving levelling with trimix surface vibrator, Vacuum De-watering with trimix vacuum pump, floating and further compaction with trimix skin floater, floating disc, curing, cutting the concrete for contraction/ expansion joints of size 10 mm wide x 6 to 8mm deep including filling the same with semi-rigid epoxy based approved sealant, curing etc complete as directed.	SQM		5.00	-
		TOTAL OF FLOORING				-
		STEEL WORK				-
75.00	7	Providing and fixing in position interlocking rolling shutters of approved make of 18 gauge, 75 mm wide cold rolled, MS Lathes interlocked through entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with bracket including top cover, spring, axles, guide rails, tees, iron pulleys, bearings, handles, arrangements for inside and outside locking, holding-down bolts / MS lugs embedded in CC 1:2:4 including 2 or more coats of first quality synthetic enamel paint of approved make, over a coat of primer etc. complete as directed. (Measurements to be considered for payment shall be the clear size of opening plus guide channels on both sides for width and 450mm on top for drum height) - for providing and fixing in position interlocking mechanically operated rolling shutter with mechanical device chain and crank operated with pair of handles etc complete as directed.	SQM		9.00	-
76.00	7.1	Providing, fabricating and fixing in position, grill, railing, steel ladder, Safety MS bars to windows/ ventilator of MS rolled sections as per architect's details including cutting welding, grinding to smooth surface, fixing hold fast of MS sections embedded in concrete 1:2:4 (1 part cement, 2 part coarse sand, 4 part of stone aggregate 12 mm and down), anchor bolts including 2 or more coats of first quality synthetic enamel paint of approved make over a coat of primer etc. complete as directed.	Kg		667.00	-
77.00	7.2	Providing, fabricating and fixing in position MS inserts such as nosing, corner angles of columns, plates, flats, tee's, protection channels of reception dock, supports, brackets and monorails, hooks, frame around cut-out, MS pipe sleeves etc. as per drawings and specifications, in true line and level including embedding the same into the permanent works at the time of casting of RCC works or fixing with or without base plate fixed to RCC element with appropriate size expansion bolts as per design, with necessary welding, grinding and painting with two or more coat of approved first quality synthetic enamel paint over a coat of primer etc. complete as directed.	Kg		147.00	-
		TOTAL OF STEEL WORK				-
		ROOFING				-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
78.00	8	<p>Supplying, fabricating, assembling, hoisting and fixing in position to alignments & levels as per approved drawings, structural steel work in-built up roof truss girders and side claddings with booms, lattice girders roof trusses, gable frame, purlins / built-up purlins, cladding structures, side runners, etc., to detail welded (welding as specified by the structural consultant) / bolted constructions comprising R.S. joints, channels, angles, plates or any MS rolled section including necessary permanent rivets, bolts & nuts, welding, handling straightening, cutting, making holes by drill machine, shop / site assembly, erection, (including preparation of template) transport to site, storing, etc., surface preparation by rubbing with motorised wired brush, sand paper, emery machines and painting with shop/site coat of red oxide primer prior to erection and two or more coats of first quality synthetic enamel paint of approved make and quality over a coat of red oxide primer after erecting in position at all heights including necessary scaffolding and staging, as required complete as directed.</p> <p>Payment will be made on the basis of standard section weights for net weight erected in position excluding rivets, temporary bolts, etc., but payment will be made for permanent bolts, nuts and washers.</p>	KG		4,693.00	-
79.00	8.1	<p>Supplying, fabricating, assembling, hoisting and fixing in position to alignments & levels as per approved drawings, structural steel work in-built up roof truss girders and side claddings with booms, lattice girders roof trusses, gable frame, purlins / built-up purlins, cladding structures, side runners, etc., to detail welded (welding as specified by the structural consultant) / bolted MS rolled section B class pipes / medium duty tubular square / rectangular sections having minimum yield strength of 310 N/Sq.mm and confirming to the specifications as per IS 4923 & IS 1161 of approved make including cutting , radius bending, mitring and Welding after matching including necessary permanent rivets, bolts & nuts, welding, handling straightening, cutting, making holes by drill machine, shop / site assembly, erection, (including preparation of template) transport to site, storing, etc., surface preparation by rubbing with motorised wired brush, sand paper, emery machines and painting with shop/site coat of red oxide primer prior to erection and two or more coats of first quality synthetic enamel paint of approved make and quality over a coat of red oxide primer after erecting in position at all heights including necessary scaffolding and staging, as required complete as directed.</p> <p>(MS rolled sections like flats, plates, angles, T's, ' I ' / ' C' sections etc used shall be measured and paid under relevant item)</p>	KG		5,346.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
80.00	8.2	<p>Providing & fixing GALVALUME colour coated cold rolled sheets made out of 0.5mm base metal thickness and Total Coated Thickness as 0.55mm, yield and tensile strength minimum 550 Mpa cold rolled sheet with hot dip metallic coating of aluminium zinc alloy 150 Gms/SqM, density minimum 4.8 Kg/SqM with minimum 20 microns super durable polyester paint or silicon modified polyester on top and 5 microns back-up epoxy coating at the bottom having 1020/1080mm cover width with 32 mm high crest at 220/250mm C/C in length as approved by the architect and with necessary suitable imported galvanised carbon steel 40micron zinc coated/minimum 20micron Zinc-Tin alloy coated Hexagonal head, self drilling & self tapping screws of ITW Buildiex(R) AS 3566 Class 3/ HILTI/BOSCH having drilling capacity minimum 6-8mm and in required diameter and length fixed using torque drill machine all complete with EPDM sealing washers with sealant.Rate should include cost of plastic caps of approved colour of UV resistance and button bolts etc. for the fasteners. Rate to include also fixing in roofing, cladding and all accessories and utilities like ridge, corner piece, aprons, barge boards, gutters, flashings, end pieces, etc., all accessories etc. complete.The rates shall include all materials, tool / tackles, labour, scaffolding including handling and storage of the materials, providing guarantee against perforation for 20 years etc complete as directed for all heights.</p> <p>Measurement shall be paid for the plain area of the sheet laid. Overlaps, wastages,corrugation etc are inclusive with the rates and shall not be paid for. Basic price of galvalume sheet shall be Rs 850 per Sqm. TCT of galvalume sheet</p>	SQ.M.		531.00	-
81.00	8.3	<p>Supplying and fixing UV resistant transparent polycarbonate sheet 2 mm thick of approved make, size, and tint in plain or curved profile for roof sheeting with anodised aluminium beading fixed with GI bolts or EPDM coated self tapping screws with EPDM sealing washer, filling the gaps with silicon sealant. Item rates shall be include cost of plastic caps of approved colour of UV resistance, sealant wherever required etc complete as per architects drawing and as directed.</p>	SQM		6.00	-
82.00	8.4	<p>Providing and fixing in Roof sheet/ R.C.C. slab Wind operated approved or equivalent make 600 mm dia Turbo ± ventilators/ roof extractors with sky light, made from rotating heads having turbine blades of higrade aluminium, top and neck of stainless steel 304 grade, steel bearing with dust proof bearing housing or GFP Pushing instead of bearing, UV stabilised non-coloured translucent 3mm thick FRP moulded one piece construction (monolithic) venturi dome and corrugated base sheet (similar FRP sheets 3 mm thick UV resistant) of appropriate size having the profile matching with existing roof sheet with double action natural ventilation system powered by natural flow of air, boosts / extracts the hot and contaminated air / gases, obnoxious fumes, bad odour outside for healthy and improved environment inside Godowns including cutting the roof if necessary, fixing the leakage in roof etc complete as directed. Turbo ventilator as per drawing with the roof sheets including all fittings and fasteners as per manufacturer's specification, making the joints water proof to prevent entry of rain water</p>	NO.		8.00	-
83.00	8.5	<p>Providing and fixing flashings, cappings, barge pieces, gutter pieces, trims and other specials as per drawing formed out of coated steel in same material, substrate and coating as external/internal sheeting, and fixed by means of hex-head self drilling stitching screws in girth upto 500 mm</p>	SQ.M.		50.00	-
84.00	8.6	<p>Providing and installing 8 mm th.bubbled insulated sheet of approved quality like (Pure Aluminium Foil + FR Air Bubble Film + FR Air Bubble Film + Pure Aluminium Foil) Aerolam or Supreme make with both side aluminium foil including fixing with roofing sheet etc. complete as per the direction of engg.</p>	SQ.M.		150.00	-
		TOTAL OF ROOFING WORK				-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
		MISCELLANEOUS				-
85.00	9	Providing & filling electrical jharies 150 to 250 mm wide and average 50 to 75 mm deep with cement mortar 1:3 and finishing the same to match with the surrounding including painting/white washing etc. complete as directed.	RM		10.00	-
86.00	9.1	Dismantling the RCC beams, slabs, lintels, columns, parti, walls, platform etc. including finishing the broken surface to match with the surroundings, removal and disposal of debries within site, including cutting the reinforcement/ MS inserts stacking the same and handing over to stores / yard within site etc. complete as directed.	CuM		-	-
87.00	9.2	Providing and filling the jharies 25mm to 150mm wide and 50mm to 100mm deep with PCC 1:2:4 (1 part cement:2part sand: 4 parts 12.5 and down graded aggregates) and finishing the same as per surroundings including scaffolding, cutting the reinforcement bars, curing etc. complete as directed	RM		5.00	-
88.00	9.3	Providing, fabricating and fixing 2.0 Metre height (from NGL) barricading in line, level and plumb to separate the existing sheds, buildings, infrastructures and the proposed new construction site using colour coated GI corrugated sheets of 0.45 mm thick of any local brand and approved color fixed using self threaded fasteners to the MS angle framing and two cross bracings using all ISA 50 X 50 X 6 and fixing the same using same sized MS angles 2.6 mtr height in vertical position at 3.0 mtr c/c (0.6 M grouted in ground using PCC 1:4:8 and balance 2.0 above ground) including all consumables, welding, bolting, painting the frames, including providing two or three gates at suitable places as directed using appropriate hinges and other fasteners cum locking arrangement for any urgency or emergency, providing all materials and labour, including removing of the barricading when directed upon completion of work or at any other suitable stage/time within the contract time period, taking back all the sheets and angles by the contractor etc complete as directed and as per the drawing.	RM		35.00	-
		TOTAL OF MISCLANIOUS WORK				-
89.00	10	Surface dressing including preparation of sub grade of road bringing earth work to required grade, slope and camber in the existing surface, including cutting or filling earth up to 300 mm thickness, watering, consolidation with 8-10 MT Power Road Roller, etc. complete as per details and as directed	Sqm		175.00	-
90.00	10.1	Providing & laying base course in two layers in compacted thickness of 100 mm (each course 100 mm thick consolidated), using stone aggregates of nominal size 65 mm, including filling voids with similar stone of smaller size, similar stone grit, stone aggregates of suitable size, dry rolling, spreading the binding material like murrum, watering and consolidation with 8-10 MT power road roller etc. complete as directed.	CUM		35.00	-
91.00	10.2	Providing and laying interlocking pavement stones of approved quality, shape, size, colour and make having compressive strength of minimum 250 kg/sq.cm and thickness not less than 80mm with smooth / approved finish and edges duly chamfered over a water compacted 50 mm thick natural sand bed to the required line, level and compacting the stones laid by plate vibrator including cost of labour for Surface dressing including preparation of sub grade of road bringing earth work to required grade, slope and camber in the existing surface, including cutting or filling earth up to 300 mm thickness, watering, consolidation with 8-10 MT Power Road Roller, etc. complete as per details and as directed	Sqm		175.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
92.00	10.3	Providing and filling of SHALITEX sealing compound of grade A –IS 1834-1984 in the contraction/ expansion joints of the RCC roads/hard park .The joints shall be of size 25mm wide X 25 mm deep. Before applying the sealing compound the sides of the joints should be cleaned of dust and shalitex primer should be applied .The rate includes labour charges for laying along with heating the compound etc., as per the manufacturer's specification and as directed.	RM		-	-
93.00	10.4	Providing and laying pre-cast / cast in- situ kerbing in cement concrete M-20 and 450mm wide, 75 to 100 mm thick and total 250 high, 100-125 mm thick web, edge duly chamfered including necessary excavation, surface dressing, cutting the road, laying PCC 1:5:10 (1 part cement 5 part coarse sand 10 part stone aggregate 20/37 mm and down) 100 mm thick, shuttering / moulds for exposed finish or provide smooth plaster with neat cement finish, curing as per approved drawing etc complete as directed. Note:-Pre-cast kerb stones may be of sizes other than stipulated above as per the architectural drawings etc complete as directed. The grade of concrete shall be M25 instead of M20.	RM		103.00	-
		TOTAL OF ROAD WORK				-
		WATER SUPPLY				-
94.00	11	Providing and fixing forged brass lever operated ball valve of full flow with forged brass ball (Machined to mirror smooth finish with hard chrome plated) and spindle with setting and gland of superior quality having minimum working pressure of 10kg/cm2 etc. complete as directed. For 25mm Dia. Note:-The pressure rating of the valve shall be minimum 25 kg/cm2 instead of 10kg/cm2.The item includes for providing and fixing special fittings/flanges for connection of valves with pipes of PVC/cPVC/GI/MS/etc as required and applicable	No		1.00	-
95.00	11.1	Providing and fixing forged brass lever operated ball valve of full flow with forged brass ball (Machined to mirror smooth finish with hard chrome plated) and spindle with setting and gland of superior quality having minimum working pressure of 10kg/cm2 etc. complete as directed. For 40mm Dia. Note:-The pressure rating of the valve shall be minimum 25 kg/cm2 instead of 10kg/cm2.The item includes for providing and fixing special fittings/flanges for connection of valves with pipes of PVC/cPVC/GI/MS/etc as required and applicable.	No		1.00	-
96.00	11.2	Providing & fixing CI Circular manhole cover of about 455mm dia. and about 40 Kg weight including CI frame of approved make. The cover shall be got approved in advance and shall be fixed by grouting the frame in brickwork / RCC cover slab, including painting with two coats of bituminous paint etc. complete as directed.	KG		65.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
97.00	11.3	Providing and laying concealed in earth waterline of 50mm dia, SCH- 80, uPVC pipe of approved make including excavation of trenches in soil/murum/rock, laying and jointing the pipes and fittings in line and level, including solvent jointing of applying primer of P70 and solvent of UPVC 705 with all fittings like bends, tees, reducers, elbows, unions, etc as per manufacturer's recommendations, refilling excavated earth, compacting & watering etc complete as directed. <i>Note:-Item also includes for providing and making all necessary and required permanent connections/terminations with new as well as existing pipes (uPVC/cPVC/GI/MS/etc) and the pipes laid under the scope of other contractors/agencies (uPVC/cPVC/GI/MS/etc) if required and for which necessary specials and fittings (excluding Valves) shall be provided and fixed.Depth of excavation shall be 900 mm.</i>	RM		30.00	-
98.00	11.4	Providing and laying concealed in earth waterline of 80mm dia, SCH- 80, uPVC pipe of approved make including excavation of trenches in soil/murum/rock, laying and jointing the pipes and fittings in line and level, including solvent jointing of applying primer of P70 and solvent of UPVC 705 with all fittings like bends, tees, reducers, elbows, unions, etc as per manufacturer's recommendations, refilling excavated earth, compacting & watering etc complete as directed. <i>Note:-Item also includes for providing and making all necessary and required permanent connections/terminations with new as well as existing pipes (uPVC/cPVC/GI/MS/etc) and the pipes laid under the scope of other contractors/agencies (uPVC/cPVC/GI/MS/etc) if required and for which necessary specials and fittings (excluding Valves) shall be provided and fixed.Depth of excavation shall be 900 mm.</i>	RM		30.00	-
99.00	11.5	Providing, Laying & fixing Open /Concealed 40mm dia unplasticized Polyvinyl Chloride (uPVC) pipes for water supply line 10KG/cm2, having thermal stability for hot & cold water supply, including all uPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing/or as directed. This includes jointing of pipes & fittings with one step uPVC solvent cement and testing of joints complete as directed	RM		3.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
100.00	11.6	<p>Providing and fixing concealed/ open 40 mm dia Chlorinated Polyvinyl Chloride (CPVC) pipes for water line 10Kg/ cm², having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as directed <i>Note: SDR 11 Pipe to be considered. Item also includes for providing and making all necessary and required permanent connections/terminations with new as well as existing pipes (uPVC/cPVC/GI/MS/etc) and the pipes laid under the scope of other contractors/agencies (uPVC/cPVC/GI/MS/etc) if required and for which necessary specials and fittings (excluding Valves) shall be provided and fixed.</i></p> <p><i>Item also includes for providing and fixing accessories/special compatible fittings including brass threaded compatible fittings etc as applicable and as required as per manufacturers recommendations for fixing with uPVC/cPVC/GI pipes and CP fittings etc as and if applicable.</i></p>	RM		3.00	-
101.00	11.7	<p>Providing & fixing concealed cPVC pipe SDR -11 class water pipe line of ISI mark of following diameters at all levels, including all necessary heavy duty specials (fittings) of ISI mark, fixing with approved arrangement viz. standard pattern holders bat clamps made out of MS flat carrier fixed with bolts in the RCC or brick masonry and "C" clamp fixed to secure the pipe with GI bolts / screws / washers of required shape and size so as to fit tightly on the pipes when tightened with screwed , making holes, cutting floors, making good the walls and floors etc. complete as directed for 15mm dia. <i>Item also includes for providing and making all necessary and required permanent connections/terminations with new as well as existing pipes (uPVC/cPVC/GI/MS/etc) and the pipes laid under the scope of other contractors/agencies (uPVC/cPVC/GI/MS/etc) if required and for which necessary specials and fittings (excluding Valves) shall be provided and fixed.</i></p> <p><i>Item also includes for providing and fixing accessories/special compatible fittings including brass threaded compatible fittings etc as applicable and as required as per manufacturers recommendations for fixing with uPVC/cPVC/GI pipes and CP fittings etc as and if applicable.</i></p>	RM		2.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
102.00	11.8	<p>Providing & fixing concealed cPVC pipe SDR -11 class water pipe line of ISI mark of following diameters at all levels, including all necessary heavy duty specials (fittings) of ISI mark, fixing with approved arrangement viz. standard pattern holders bat clamps made out of MS flat carrier fixed with bolts in the RCC or brick masonry and "C" clamp fixed to secure the pipe with GI bolts / screws / washers of required shape and size so as to fit tightly on the pipes when tightened with screwed , making holes, cutting floors, making good the walls and floors etc. complete as directed for 20mm dia. <i>Item also includes for providing and making all necessary and required permanent connections/terminations with new as well as existing pipes (uPVC/cPVC/GI/MS/etc) and the pipes laid under the scope of other contractors/agencies (uPVC/cPVC/GI/MS/etc) if required and for which necessary specials and fittings (excluding Valves) shall be provided and fixed.</i></p> <p><i>Item also includes for providing and fixing accessories/special compatible fittings including brass threaded compatible fittings etc as applicable and as required as per manufacturers recommendations for fixing with uPVC/cPVC/GI pipes and CP fittings etc as and if applicable.</i></p>	RM		2.00	-
103.00	11.9	<p>Providing & fixing open uPVC pipe SCH-80 class water pipe line of ISI mark of following diameters at all levels, including all necessary heavy duty specials (fittings) of ISI mark, fixing with approved arrangement viz. standard pattern holders bat clamps made out of MS flat carrier fixed with bolts in the RCC or brick masonry and "C" clamp fixed to secure the pipe with GI bolts / screws / washers of required shape and size so as to fit tightly on the pipes when tightened with screwed , making holes, cutting floors, making good the walls and floors etc. complete as directed for 25mm dia . <i>Item also includes for providing and making all necessary and required permanent connections/terminations with new as well as existing pipes (uPVC/cPVC/GI/MS/etc) and the pipes laid under the scope of other contractors/agencies (uPVC/cPVC/GI/MS/etc) if required and for which necessary specials and fittings (excluding Valves) shall be provided and fixed.</i></p> <p><i>Item also includes for providing and fixing accessories/special compatible fittings including brass threaded compatible fittings etc as applicable and as required as per manufacturers recommendations for fixing with uPVC/cPVC/GI pipes and CP fittings etc as and if applicable.</i></p>	RM		2.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
104.00	11.11	Providing & fixing concealed cPVC pipe SDR -11 class water pipe line of ISI mark of following diameters at all levels, including all necessary heavy duty specials (fittings) of ISI mark, fixing with approved arrangement viz. standard pattern holders bat clamps made out of MS flat carrier fixed with bolts in the RCC or brick masonry and "C" clamp fixed to secure the pipe with GI bolts / screws / washers of required shape and size so as to fit tightly on the pipes when tightened with screwed , making holes, cutting floors, making good the walls and floors etc. complete as directed for 40mm dia. <i>Item also includes for providing and making all necessary and required permanent connections/terminations with new as well as existing pipes (uPVC/cPVC/GI/MS/etc) and the pipes laid under the scope of other contractors/agencies (uPVC/cPVC/GI/MS/etc) if required and for which necessary specials and fittings (excluding Valves) shall be provided and fixed.</i> <i>Item also includes for providing and fixing accessories/special compatible fittings including brass threaded compatible fittings etc as applicable and as required as per manufacturers recommendations for fixing with uPVC/cPVC/GI pipes and CP fittings etc as and if applicable.</i>	RM		2.00	-
105.00	11.12	Providing and laying concealed in RCC structure, all kinds of masonry wall and floors cPVC pipe SDR - 11 class water pipe line of ISI mark and of approved makes of the following diameter at all levels including heavy duty specials and fittings of ISI mark and of approved make including making all necessary chasses/jharies in walls preferably machine made chasses/jharies for laying pipe lines in masonry walls, structures and floors, clamping and protecting the pipeline including cushioning as required, refilling jharies with Cement Mortar (1:1) etc complete as directed - for providing and laying 40mm dia cPVC pipeline.	RM		2.00	-
106.00	11.13	Providing and installing on terrace, multilayered cylindrical vertical PVC water storage tanks of approved make of capacity from 500 ltrs to 5000 ltrs with closed top having manhole and cover with threaded lid & extra insert lid for protection against algae formation, UV stabilised with white coloured outer layer, water tank shall be made from food grade material including shifting the tank from site store, supplying and fixing connection inlets, outlets, air vents, overflow, drain pipes including washers, check nuts, Neosprine gaskets etc of specified sizes and as per the recommendations of manufacturer including hydraulic testing and painting all the accessories with one coat of primer and two coats of synthetic enamel paint of approved make if required etc complete as directed.	LTR.		2000	-
						-
		TOTAL OF WATER SUPPLY WORK				-
						-
		SANITARY				-
107.00	12	Providing and laying 110 mm diameter uPVC rain water line of 4 Kg / Sq cm rating of approved make with all necessary specials to be jointed adhesive as per manufacturers specifications etc complete for open pipeline / in brick wall / RCC structure including clamping to secure in position etc. complete as directed.	RM		12.00	-
108.00	12.1	Providing and laying 160 mm diameter uPVC rain water line of 4 Kg / Sq cm rating of approved make with all necessary specials to be jointed adhesive as per manufacturers specifications etc complete for open pipeline / in brick wall / RCC structure including clamping to secure in position etc. complete as directed.	RM		12.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
109.00	12.2	Providing and fixing uPVC type B Ring fit SWR Pipe of ISI mark of following diameters at all levels, including any/all type fittings, Multi floor trap, P -traps heavy duty specials (fittings) of ISI mark, with specialized joint, rings, fitting Concealed or open on wall/ RCC with all necessary chasses (jharies in walls) for laying pipe line in masonry or Open on wall with standard pattern holders bat clamps made out of MS flat carrier fixed with bolts in the RCC or brick masonry and 3C' clamp fixed to secure the pipe with GI bolts / screws / washers of required shape and size so as to fit tightly on the pipes when tightened with screwed , testing after installation of pipe ,making holes, cutting floors, making good the walls and floors etc. complete as directed for 75mm OD.	RM		3.00	-
110.00	12.3	Providing and fixing uPVC type B Ring fit SWR Pipe of ISI mark of following diameters at all levels, including any/all type fittings, Multi floor trap, P -traps heavy duty specials (fittings) of ISI mark, with specialized joint, rings, fitting Concealed or open on wall/ RCC with all necessary chasses (jharies in walls) for laying pipe line in masonry or Open on wall with standard pattern holders bat clamps made out of MS flat carrier fixed with bolts in the RCC or brick masonry and 3C' clamp fixed to secure the pipe with GI bolts / screws / washers of required shape and size so as to fit tightly on the pipes when tightened with screwed , testing after installation of pipe ,making holes, cutting floors, making good the walls and floors etc. complete as directed for 110mm OD	RM		3.00	-
111.00	12.4	Providing and laying uPVC Eco drain or Fome Core SN8 pipe of approved quality including all necessary fittings, excavation of trenches in soil/murum up to 1500mm depth, providing & laying 150 mm thick BBCC 1:5:10 (1 part cement, 5 part coarse sand, 10 part brickbat) as bedding, laying and jointing the pipe in line and level as per manufacturer's specification with PCC 1:5:10 (1 part cement, 5 part coarse sand, 10 part stone aggregate) all around of the pipe, refilling of the trenches, testing before concealed the pipe etc. complete as directed. Encasing of the pipe line with PCC 1:5:10 will be not be paid separately for 110 mm OD	RM		3.00	-
112.00	12.5	Providing and fixing looking mirror 5 mm thick of approved make over a backing of 12 mm thick Novaboard firmly fixed with brass oxidized screws , CP cup type screw etc. including the painting the exposed surfaces complete as directed.	SQM		1.00	-
112.00	12.6	Providing and fixing 125mm PVC Nahani trap (floor trap) self cleaning design with outlet size 75mm dia of approved make with perforated brass cast CP jali including cutting the floor and fixing trap in CC 1:2:4 making good the floor etc. complete as directed.	NO		2.00	-
113.00	12.7	Providing and fixing. approved make white/ approved colour Vetricious China oval wash basin 560x 410mm for counter mounting, specially fabricated brackets painted white, 32mm dia C.P waste coupling (code ALD 705), 32mm dia C.P cast brass bottle trap and pipe to wall with C.P wall flange and rubber adopter for waste connection complete, including cutting and making good the walls wherever required. or approved equivalent) Basic rate of Wash Basin - Rs 4500 / No	NO.		2.00	-
114.00	12.8	Providing and Fixing CP Health Faucet (Hand Shower) with 1 mt: flexible tube and Wall Hook complete of approved make	NO.		2.00	-
115.00	12.9	Providing and constructing square or circular mouth 100 mm dia. PVC gully trap of approved make having size around 160mm X 110mm including rising piece, PVC grating. Gully trap shall be having one outlet and three closed inlets, seal traps, etc all for domestic and industrial grade, including excavation, foundation concrete BBCC 1:5:10(1 part cement, 2 part coarse sand, 4 part of brickbat) 230 mm thick masonry, in Cement Mortar (CM) 1:6 (1 part cement, 6 part coarse sand), cement mortar 1:3 (1 part cement,3 part coarse sand) plaster, neat cement finish and back filling etc. and water tight PVC cover with frame of suitable size (inside) etc complete as per the design complete as directed.	NO.		3.00	-

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
116.00	12.11	Providing and fixing Stainless Steel Perforated trap cover of 150 X 150 mm (minimum 18SWG) into Floor tile including cutting of tile, silicon filling for water proofing, etc. complete over P trap or Nahni trap.	NO.		2.00	-
117.00	12.12	Providing and fixing First quality floor mounted wc of approved make including all accessories and fixing with CI chair brackets or SS fastners as per the recommendation of manufacturer, seat cover of approved make, Flush Valve of 40mm dia Size (concealed body) with exposed shut off provision of approved make, Hand shower (Health Faucet) with 8mm dia 1.2 meter long easy flex tube in chrome finish of approved make & CP wall hook, Rack Bolts, braided connection pipe, two way bib cock with wall flange of approved make, cutting and making good the walls and floors, treating the joints with silicon joint etc complete as directed.	NO.		2.00	-
118.00	12.13	Providing and fixing C.P. brass angle valve of approved quality conforming to IS:8931 15mm nominal bore	NO.		2.00	-
119.00	12.14	Providing and Fixing, testing and commissioning of C.P. brass pillar cock of approved or equivalent make complete as required. All work complete as per satisfaction of / Consultant/ Engineer-in-charge.	NO.		2.00	-
120.00	12.15	Providing and fixing longbody CP brass bib cock of approved make with chromium plated flange (disc) etc. for 15 mm dia NB pipeline, complete as directed	NO.		2.00	-
		TOTAL OF SANITARY WORK				-
		Electrical				-
121.00	13.1	Providing and fixing/ laying of conduit and wires for Light point wiring with 1.5 sq. mm PVC insulated, FRLS, copper conductor (stranded) 1100V grade wires alongwith earthing in 25mm dia. medium duty PVC surface/ concealed conduit system including providing and fixing one no. 10 Amp single pole modular switch grid plate mounted with moulded cover plate in zinc chromate passivated GI box suitable for modular switch, complete in all respect (wiring & conduiting up to switchboard not included in item cost), for one light point controlled by one switch. <i>Including making zaries in the wall and finishing the same</i>	NO.		12	
122.00	13.2	Providing and fixing/ laying of conduit and wires for Light point wiring with 1.5 sq. mm PVC insulated, FRLS, copper conductor (stranded) 1100V grade wires alongwith earthing in 25mm dia. medium duty PVC surface/ concealed conduit system including providing and fixing one no. 10 Amp single pole modular switch grid plate mounted with moulded cover plate in zinc chromate passivated GI box suitable for modular switch, complete in all respect (wiring & conduiting up to switchboard not included in item cost), for two light points controlled by one switch. <i>Including making zaries in the wall and finishing the same</i>	NO.		7	
123.00	13.3	Providing and fixing/ laying of conduit and wires for Ceiling fan point wiring with 1.5 sq. mm PVC insulated, FRLS, Cu. conductor (stranded) 1100V grade wires alongwith earthing in 25 mm dia. Medium duty PVC surface/ concealed conduit system including providing and fixing one no. modular 10A single way switch, grid plate mounted with moulded cover plate, two module electronic stepped fan regulator in zinc chromate passivated GI box suitable for modular switches, with GI box for fan suspension, complete in all respect (wiring & conduiting up to switchboard not included in item cost). <i>Including making zaries in the wall and finishing the same</i>	NO.		8	

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
124.00	13.4	Providing and fixing/ laying of conduit and wires for Exhaust / Brackate fan point wiring with 1.5 sq. mm PVC insulated, FRLS, Cu. conductor (stranded) 1100V grade wires alongwith earthing in 25 mm dia. Medium duty PVC surface/ concealed conduit system including providing and fixing one no. modular 10A single way switch, grid plate mounted with moulded cover plate in zinc chromate passivated GI box suitable for modular switches complete in all respect (wiring & conduiting up to switchboard not included in item cost). <i>Including making zaries in the wall and finishing the same. Item includes providing & fixing 10 A 3 pin 250V modular socket outlet and 10 A 3 pin plug top for Exhaust Fan/Bracket fan</i>	NO.		3	
125.00	13.5	Providing and fixing zinc chromate passivated GI box suitable for modular switches with grid plate moulded cover , in surface / concealed conduit system and 1 no. 10 A 3 pin 250 V modular socket outlet with safety shutter and 10 A 250 V modular switch for 10 A isolated power point (wiring & conduiting up to power plug point not included in item cost) complete in all respect. <i>Including making zaries in the wall and finishing the same.</i>	NO.		10	
126.00	13.6	Providing and fixing 10A 3 pin 250 V modular socket outlet and 10 A 250 V modular switch in existing lighting switch board, including connections within the box with 1.5 sq. mm PVC insulated, FRLS copper conductor 1100 V grade wires. (wiring & conduiting up to power plug point not included in item cost) <i>Including making zaries in the wall and finishing the same.</i>	NO.		5	
127.00	13.7	Providing and fixing zinc chromate passivated GI boxes with moulded sheet cover in surfaces/concealed conduit system for 20 A power point (socket and switch are separated from each other by a distance of 2 mtr. Max). In one box 20 A universal 6 pin 250 V modular type socket outlet having safety shutter to be fixed and in other 1 no. 20 A 250 V modular type switch to be fixed. Both the boxes to be interconnected with surface/ concealed conduit system with 2.5 sq. mm. PVC insulated FRLS, Cu conductor (stranded), 1100 V grade wires and 2.5 sq. mm. Green PVC insulated earth wire. (Cost of wiring and conduiting up to the first box from DB is not included in this item cost). <i>Including making zaries in the wall and finishing the same.</i>	NO.		7	
128.00	13.8	Circuit wiring with PVC insulated, FRLS, 1100V grade, Cu. conductor (stranded) wires of red/blue/yellow colour for phase, black colour for neutral & green colour for earthing in Medium duty PVC surface/concealed conduit system, complete with wires and conduit sizes of 2 x 2.5 Sq. mm for power (phase & neutral) and 1 x 1.5sq mm for earthing in 25 mm dia medium duty PVC conduit. <i>Including making zaries in the wall and finishing the same</i>	RM		100	
129.00	13.9	Circuit wiring with PVC insulated, FRLS, 1100V grade, Cu. conductor (stranded) wires of red/blue/yellow colour for phase, black colour for neutral & green colour for earthing in Medium duty PVC surface/concealed conduit system, complete with wires and conduit sizes of 2 x 4.0 sq. mm. for power (phase & neutral) and 1 x 2.5 sq. mm for earthing in 25 mm dia Medium duty PVC conduit. <i>Including making zaries in the wall and finishing the same</i>	RM		100	
130.00	13.11	Circuit wiring with PVC insulated, FRLS, 1100V grade, Cu. conductor (stranded) wires of red/blue/yellow colour for phase, black colour for neutral & green colour for earthing in Medium duty PVC surface/concealed conduit system, complete with wires and conduit sizes of 4 x 4.0 sq. mm. for power (phases & neutral) and 2 x 2.5 sq. mm for earthing in 25 mm dia Medium duty PVC conduit. <i>Including making zaries in the wall and finishing the same</i>	RM		20	

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
131.00	13.12	Sub main wiring (1 PHASE) with PVC insulated, FRLS, Cu. Conductor (stranded) 1100V grade wires of red/yellow/blue colour for phase, black colour for neutral & green colour for earthing in Medium duty PVC surface/ concealed conduit system complete with wires and conduit of size 2x6sq. mm. For power and 1x4 sq. mm for earth wire in 25 mm dia conduit.e	RM		30	
132.00	13.13	Providing & laying spare concealed or surface 25 mm dia Medium duty PVC conduit for wiring complete with accessories and draw out boxes and their covers.	RM		80	
133.00	13.14	Providing & laying spare concealed or surface 38 mm dia Medium duty PVC conduit for wiring complete with accessories and draw out boxes and their covers.	RM		20	
134.00	13.15	Supply of Split AC 1 tonne capacity, Make Daikin complete fitting as directed	NO.		1.00	-
135.00	13.16	Providing & Laying of 40 mm dia HDPE Pipe 6kg/cm ² ISI 600mm underground for laying of LAN cable including excavation & refilling the trench	RM		30	
136.00	13.17	Supply and fixing 32 amps 240 V SPN Industrial type socket outlet with 2 pole and earth, plug top alongwith 32 amps 'C' series SP MCB, in sheet steel enclosure complete with all accessories.	NO.		3	
137.00	13.18	SITC of Fixing of 4Way IP 66 NON FLP Junction Box suitable current rating upto 32A / 440V.	NO.		2	
138.00	13.19	Installation, testing and commissioning of ceiling/ bracket fan, with all standard accessories and connecting with 1.5 sq mm Cu. conductor PVC wires. The standard hanging rod of ceiling fan to be replaced with new GI class `B' pipe above 700 mm and up to 3000 mm long (including painting of new pipe) <i>Supply of Downroad of Upto 1500 mm length included in the item</i>	NO.		32	
139.00	13.21	Installation, testing & commissioning of exhaust fan up to 300 mm size with all accessories in existing opening in wall and connecting with 2.5 sq mm Cu. conductor PVC flexible cable with flexible conduit from exhaust fan point. <i>Note :Item also includes supply & installation of louvers of same shade ,size as the exhaust fans)</i>	NO.		3	
140.00	13.22	Installation, testing and commissioning of LED lighting fixture directly on ceiling/ beams/ walls / trusses/false ceiling/shed etc. complete with all accessories . The item include supply of anchore fastners for fixing the Lighting fixture & connecting with 1.5 sq.mm Cu. conductor wires from light point.	NO.		16	
141.00	13.23	Providing Maintenance free Chemical Earthing Pit similar to Earth Electrode Model (3Mtr rod with 2 Bag of 25 Kgs GREP Compound) Two GI pipes one inside the other with proper hot deep galvanization outer dia 62 mm & inner dia 32 mm. The cavity between the rod pipes is filled with Ground Resistance Improvement Powder. The electrode should be sealed from both the ends. Each Electrode should be supplied with bags of GRIP Compound (Ground Resistance Improvment Powder). The Characteristics of this compound is highly conductive, non magnetic & non corrosive in nature. Including all accessories, and civil work complete as per IS 3043-1987 latest revision.	NO.		2	
142.00	13.24	Providing and laying earth continuity conductor in ground/ on surface of building with necessary clamps as required, of size – GI strip 25X6mm	RM		30	
143.00	13.25	Supply & pulling of 2.5 sq.mm PVC insulated, FRLS, copper conductor (stranded) wire, 1100 V grade, in existing conduit/ GI pipe/ raceways/ modular furniture.	RM		20	
144.00	13.26	Supply & pulling of 6.0 sq.mm PVC insulated, FRLS, copper conductor (stranded) wire, 1100 V grade, in existing conduit/ GI pipe/ raceways/ modular furniture	RM		10	
145.00	13.27	Providing and fixing GI slotted angle cable trays(height 50 mm, thickness 1.5 mm) with M S supports and anchor fasteners etc. as required, of size - 100 mm wide.	RM		30	

SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
146.00	13.28	Supply, installation & commissioning of fabricated / readymade MCB type electrical distribution board (8 WAYS 3 PHASE OUT GOING) flush type, indoor enclosure, hinged front cover, dust & vermin proof complete with switchgear given below and interconnection, as per detailed specification enclosed, along with powder coating painting. All MCB with min 25 KA and MCB/RCCB/ELCB shall be of min 10 KA rupturing capacity. RCCB/ELCB shall have sensitivity of 300 mA. Detail of incoming & outgoing switchgear & component enclosed Incoming: 63 A / 40 A FP MCB-1No. ,40A / 25A 300mA DP ELCB -3 No., Outgoing: 16-32 A MCB- 24 nos	NO.		1	
147.00	13.29	Providing and laying of copper conductor, pvc insulated, unarmoured cable - 1100 volts, 4x2.5 sqmm including supply & laying medium duty PVC conduit 38 mm dia.	RM		50	
148.00	13.31	Providing and laying of copper conductor, pvc insulated, unarmoured cable - 1100 volts, 4x4 sqmm including supply & laying medium duty PVC conduit 38 mm dia.	RM		50	
149.00	13.32	Providing PVC insulated outer and inner PVC sheath, 1100 V grade, armoured Aluminium conductor cable (cable laying cost not included) -size of cable 4X16 sq mm.	RM		200	
150.00	13.33	Laying of XLPE insulated outer and inner PVC sheet 1100 V grade armoured Al. Conductor cable in underground including excavation, supply of bricks/sand etc. and providing and fixing cable glands and lugs at both ends as per specification. Near end of cable, if required GI pipe A class of suitable size to be provided without extra cost instead of laying cable in ground with bricks & sand.(COST OF CABLE NOT TO BE INCLUDED IN THIS ITEM.) Cable size above 16 sq. mm. up to 50 sq. mm.	RM		200	
151.00	13.34	Supply of whether proof LED surface mounted 4ft baton light fixture of wattage upto 40 W (minimum IP65 protected) fixture at Ceiling Minimum lumen output of min. 120 lumens/watt. Virgin polycarbonate with UV stabilized diffusers with necessary mounting arrangement. THD < 10% , PF > 0.90 maintain min. 70% of lumen output at 50000 burning hrs. Surge protection of min. 2KV. Operating voltage range 140-270V AC. Servicability class B Fixture data sheet,, catalogue, LM80 & LM79 report, technical test certificate of the fixture in accordance with IS & IEC standards and detailed driver report to be submitted. Reference make and model : Philips : WTC 201CLELED 44S-6500-PSU-L120/Equivalent in Wipro/Equivalent in Bajaj	NO.		12	
152.00	13.35	Supply of whether proof LED surface mounted 4ft baton light fixture of wattage upto 40 W (minimum IP65 protected) fixture at wall Minimum lumen output of min. 120 lumens/watt. Virgin polycarbonate with UV stabilized diffusers with necessary mounting arrangement. THD < 10% , PF > 0.90 maintain min. 70% of lumen output at 50000 burning hrs. Surge protection of min. 2KV. Operating voltage range 140-270V AC. Servicability class B Fixture data sheet,, catalogue, LM80 & LM79 report, technical test certificate of the fixture in accordance with IS & IEC standards and detailed driver report to be submitted. Reference make and model : Philips : WTC 201CLELED 44S-6500-PSU-L120/Equivalent in Wipro/Equivalent in Bajaj	NO.		12	
153.00	13.36	Supply of 10WT led bulb for White colour temp -6500K, Lumens fixture Should be 80lumens / watt .Make:- BAJAJ (Cat.no:- ELE WALL FIXTURE)	NO.		2	

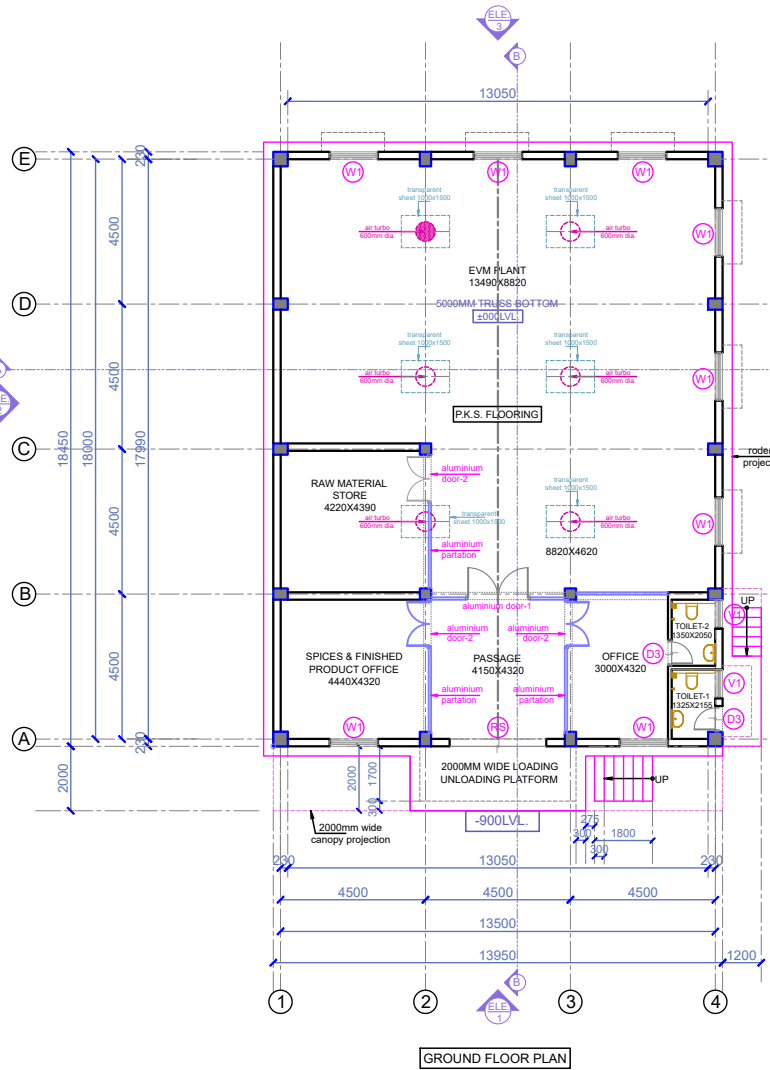
SR.NO.	Item No.	Brief Description of the services	Unit	Rate with G.S.T.(Rs.)	QTY	AMOUNTS
154.00	13.37	Supply of BEE Min. Single Star rated Ceiling fan of 1200 mm sweep, It shall be suitable for 230 V, 50 Hz AC supply. Fan should have two double ball bearings type and should have aluminium body and 3 aluminium blades, top & bottom canopy, down rods, capacitor, duly wired up to the connector block and ready for use. Colour of fan shall be white and it shall be without regulator. Reference Make & model: Crompton Greaves (CG) - HB PLUS or HS PLUS/ Usha – Technix/Bajaj – Excel Star / Orient - PSPO Energy Star	NO.		8	
155.00	13.38	Providing and fixing/laying of conduit and wires for Exhaust / Wall fan outlet point with 6A 5 pin socket controlled by one 6amp single way switch located at different location.(Rate includes cost of wiring & piping) (including making & finishing of zari)	NO.		3	
156.00	13.39	Supply, Installation, Testing & Commissioning of ON LINE UPS system with SMF battery and 30 min back and with battery rack complete in all respect. 1 set. of 2.5 KVA UPS Single Conversion Type UPS 1 ph in 1 ph out for unbalance (Computer) load with 30 minutes backup. Battery Rack with protective cage is included in the scope of supply	NO.		1	
157.00	13.41	Providing and fixing/laying of conduit and wires for 1 Telephone point in one box wiring (from telephone tag box to point) with 4 pair, un-armoured, PVC insulated and sheath, 0.51 mm dia. Annealed tinned Cu conductor in 25 mm Medium duty PVC surface/ concealed conduit system including providing and fixing one no. flush type RJ11 modular telephone socket outlet, grid plate mounted with moulded cover plate in zinc chromate passivated GI box. <i>Including making zaries in the wall and finishing the same.</i>	NO.		2	
158.00	13.42	Providing & fixing of a single computer data grid plate mounted outlet unit suitable for CAT-6 Cable with moulded cover plate in recessed zinc chromate passivated GI box complete as required for computer networking system. (No cost for wire & conduit to be included) <i>Including making zaries in the wall and finishing the same</i>	NO.		2	
159.00	13.43	Providing jelly filled armoured telephone cable , PVC insulated and sheathed , 0.51 mm dia annealed tinned copper conductor Telephone cable size - 10 pair.	RM		20	
160.00	13.44	Laying and connecting multi pair telephone cable armoured, jelly filled, PVC insulated & sheath 0.51 mm dia annealed tinned Cu conductor, in underground system including excavation for trenches ,providing bricks & sand etc., identification of pairs and connection in tag block at both ends. (COST OF CABLE NOT INCLUDED IN THIS ITEM) Up to 20 pair telephone cable.	RM		20	
		TOTAL OF Electrical				
			Total Amount (Inc. GST)			-

BUILTUP AREA = 265.62 SQ.MT.

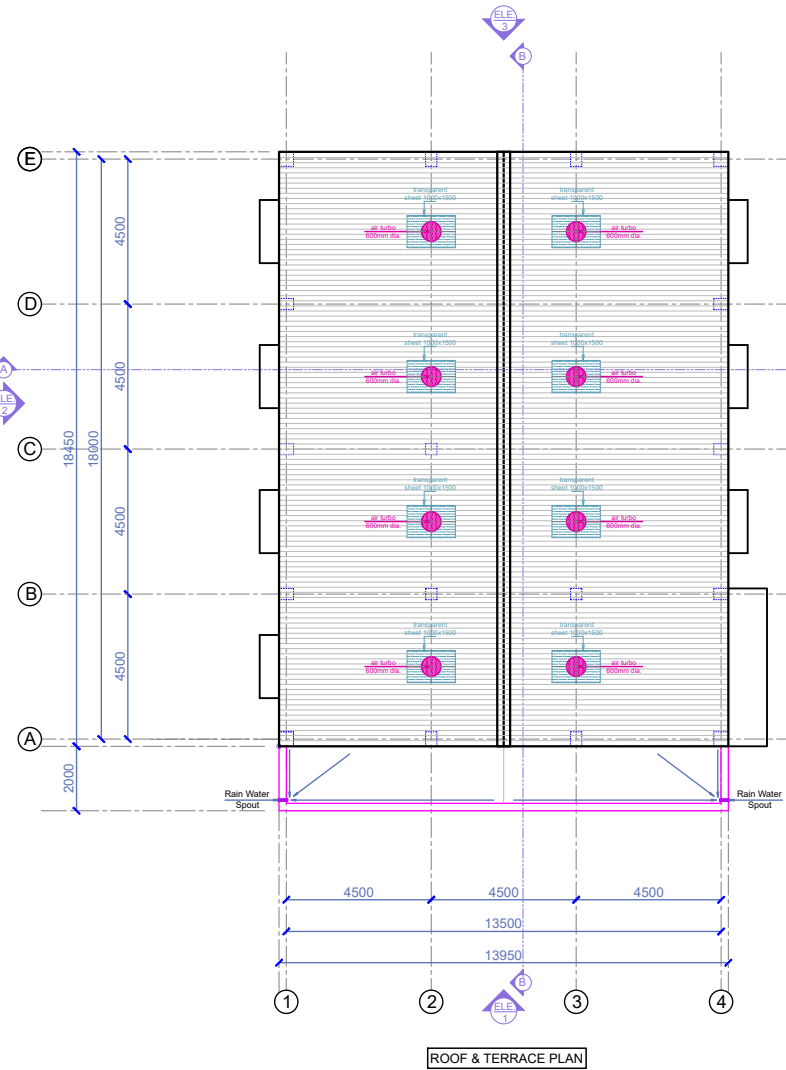
DOORS & WINDOW SCHEDULE FOR OPENING

TYPE	SIZE	SILL	LINTEL	REMARK
RS	3000X2500	000	2500	
D1	2000X2500	000	2500	
D2	1500X2500	000	2500	
D3	800X2500	000	2500	
W1	1500X1500	1000	2500	
V1	900X450	2050	2500	

Tile Drop



GROUND FLOOR PLAN



ROOF & TERRACE PLAN

REVISION DETAILS		
REV.NO	DATE	DESCRIPTION

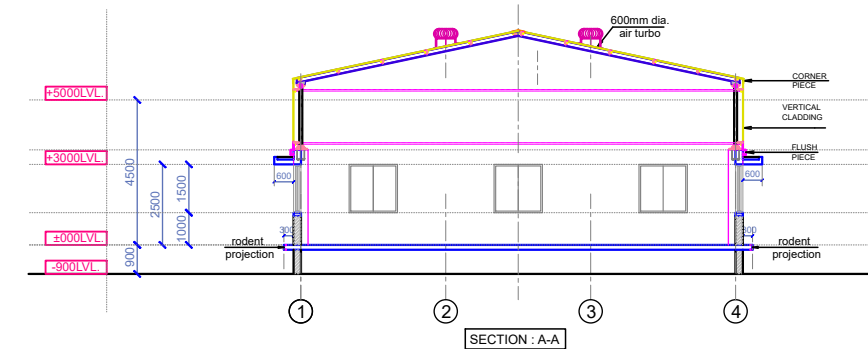
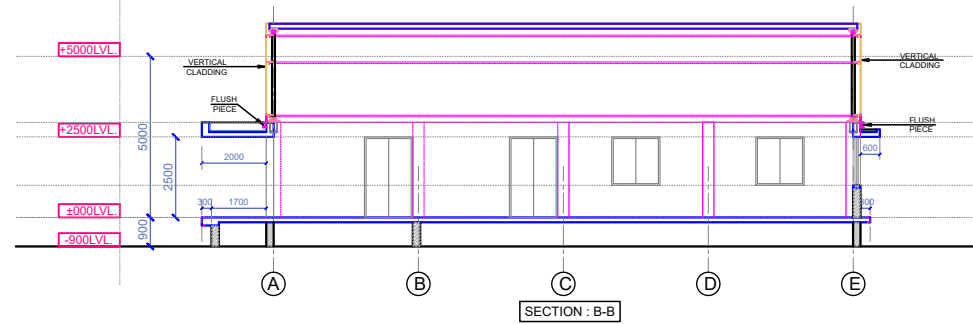
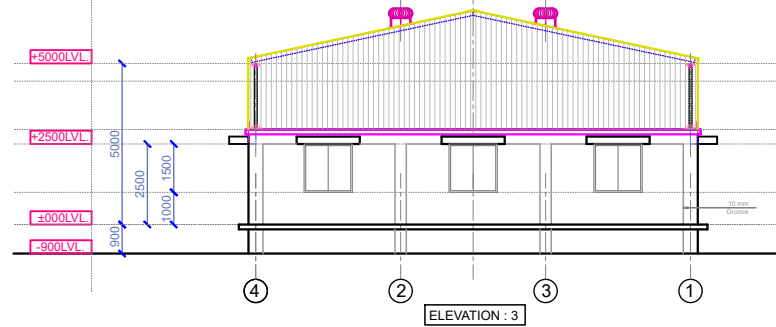
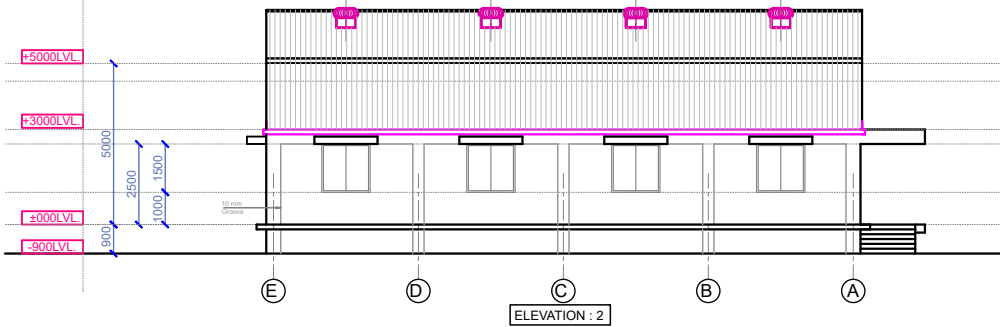
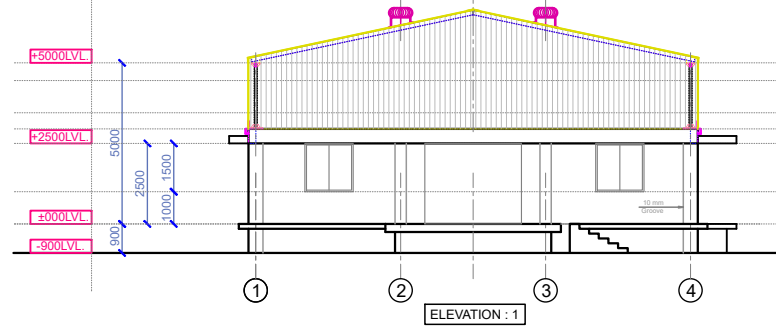
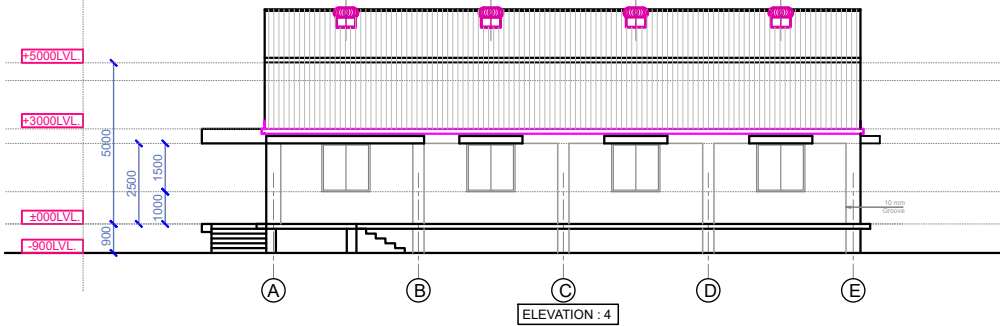
GOOD FOR CONSTRUCTION
DATE: 24.02.2025

TITLE:-
GROUND FLOOR PLAN , ROOF & TERRACE PLAN

DWG NO.	AR-06-01	NAME OF BUILDING	[6] EVM PLANT
DEALT	NIMA		
PRJCT. CODE	2022		
CHKCD. BY	-	PROJECT NAME-	ANIMAL BREEDING CENTER
DATE	19.01.2024		[ABC] AT SALON
SCALE	N.T.S		[SEMEN STATION PC-I]

CLIENT
ANIMAL BREEDING CENTER [ABC]
at Salon, Raebareilly, UP

TORSION
ENGINEERS & CONSULTANTS
ARCHITECTURE · STRUCTURE · INTERIOR
906-907, FORTUNE BUSINESS HUB,
NR. SHELL PETROL PUMP, SCIENCE CITY ROAD,
SOLA AHMEDABAD-380050.
CONTACT: +91 8320322835 E-MAIL: vgstorsion@yahoo.co.in



REVISION DETAILS		
REV.NO	DATE	DESCRIPTION

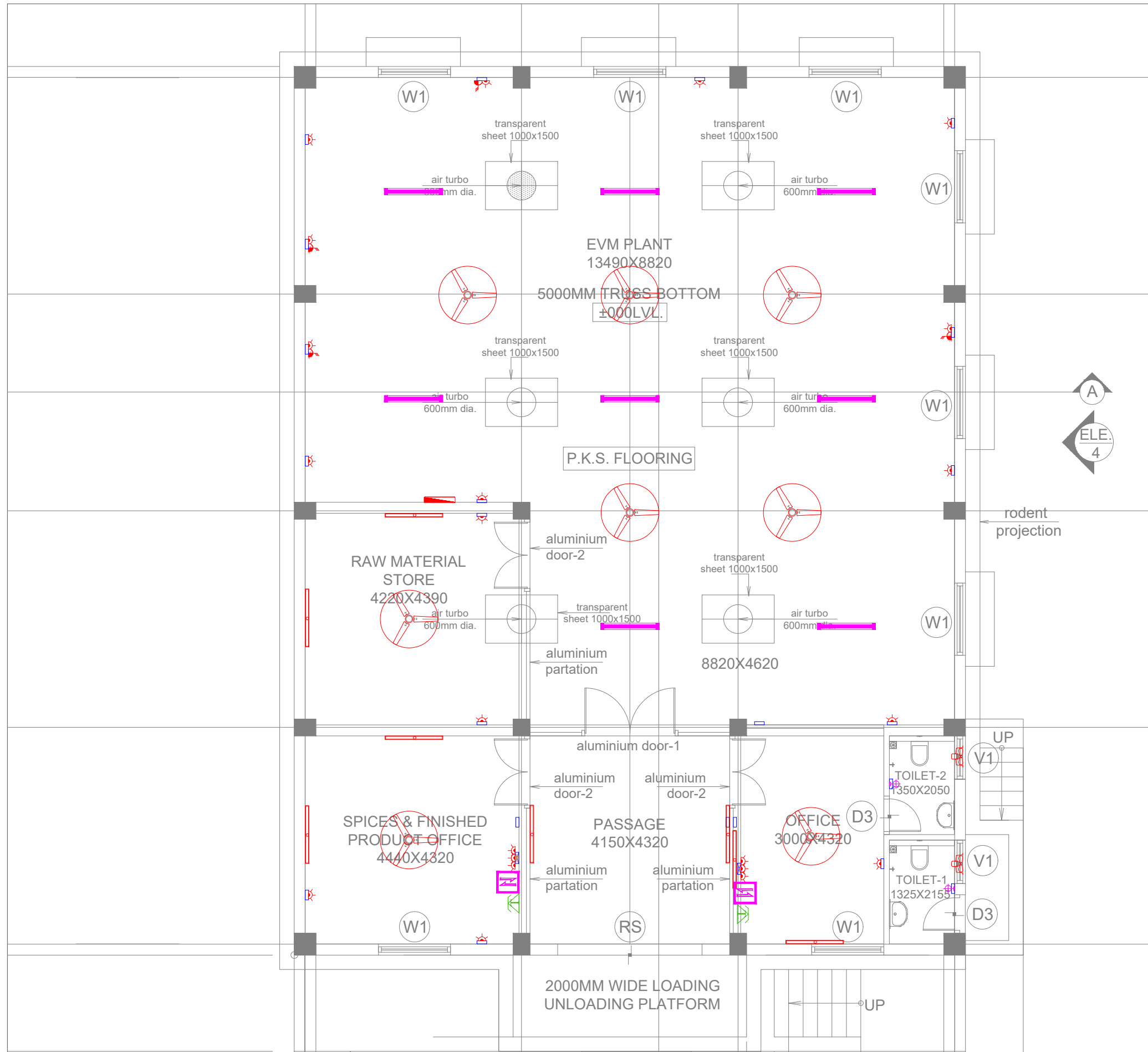
GOOD FOR CONSTRUCTION
DATE: 24.02.2025

TITLE:-
ELEVATION : 1,2,3,4 & SECTION : A-A , B-B

DWG NO.	AR-06-02	NAME OF BUILDING	[6] EVM PLANT
DEALT	NIMA	PROJECT NAME-	ANIMAL BREEDING CENTER
PRJCT. CODE	2022	[ABC] AT SALON	[SEMEN STATION PC-II]
CHKD. BY	-		
DATE	19.01.2024		
SCALE	N.T.S		

CLIENT
ANIMAL BREEDING CENTER [ABC]
at Salon, Raebareilly, UP

TORSION
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Sr. No.	SYMBOL	DESCRIPTION
1		LIGHTING DISTRIBUTION BOARD
2		CEILING FAN WITH FAN BOX
3		SWITCH BOARD AT 1200 MM
4		6A PLUG POINT WITH 6A SWITCH
5		16A PLUG POINT WITH 16A SWITCH
6		WALL LIGHT POINT 3' BELOW BEAM
7		40W LED TUBELIGHT AT WALL
8		40 W LED LIGHT AT CEILING
9		EXHAUST FAN POINT WITH PLUG SOCKET
10		2N0s 5A PP WITH POINT BELOW TABLE & 1N0s 5A ABOVE TABLE WITH 2N0s SWITCH
11		RJ45 LAN POINT
12		TELEPHONE POINT

REVISION DETAILS :		
REV.NO.	DATE	DESCRIPTION

FOR TENDER
DATE: 04.03.2025

TITLE:-
GROUND FLOOR PLAN ELE LIGHTING LAYOUT

DWG NO.	EL-06-01	NAME OF BUILDING	[6] EVM PLANT
DEALT	NIMA		
PRJCT. CODE	2022		
CHCKD. BY	-	PROJECT NAME:-	ANIMAL BREEDING CENTER
DATE	04.03.2025		[ABC] AT SALON
SCALE	N.T.S		[SEMEN STATION PC-I]

CLIENT
ANIMAL BREEDING CENTER [ABC]
at Salon, Raebareli, UP

TORSION
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