

**PROCUREMENT OF SMALL WORKS
UNDER
NATIONAL COMPETITIVE BIDDING
PROCEDURES**

[to be used for contracts valued less than US\$ 1 million]

February 2015

GOVERNMENT OF BIHAR
BIHAR TRANSFORMATIVE DEVELOPMENT PROJECT

INVITATIONS FOR BIDS (IFB)

NATIONAL COMPETITIVE BIDDING
FOR SMALL WORKS

Date: 09th May 2015

Bid No.: IN-BRLPS-1791-CW-RFB

1. The Government of India has received a credit from the International Development Association / loan from the International Bank for Reconstruction & Development towards the cost of Bihar Transformative Development Project and intends to apply a part of the funds to cover eligible payments under the contracts for construction of works as detailed below. Bidding is open to all bidders from eligible source countries as defined in the Bidding will be conducted through the National Competitive Bidding procedures as specified in the World Bank's Procurement of Goods, Works and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers" (January 2011), updated in July 2014). Bidders from India should, however, be registered with the Government of Bihar or other State Governments/Government of India, or State/Central Government Undertakings. **Bidders are advised to note the minimum qualification criteria specified in Clause 3 of the Instructions to Bidders to qualify for the award of the contract.** In addition, please refer to paragraphs 1.6 and 1.7 of the World Bank's Guidelines setting forth the World Bank's policy on conflict of interest.
2. The Bihar Rural Livelihoods Promotion Society invites sealed bids for the construction of works detailed in the table.
3. Bidding document may be purchased from the office of Bihar Rural Livelihoods Promotion Society, Patna from **09.05.2017 to 08.06.2017** for a non-refundable fee as indicated, in the form of Demand Draft on any Scheduled bank payable at Patna in favor of Bihar Rural Livelihoods Promotion Society. Interested bidders may obtain further information at the same address. Bidding document may also be downloaded from website of BRLPS at www.brlp.in. Bidding document downloaded from website should be submitted along with the bid cost.
4. A pre bid meeting will be held on **25th May 2017 from 03.00 PM** at Conference Hall, Annexe-II, Vidyut Bhawan, Bailey Road, Patna, Bihar – 800 021. Queries & Clarifications, if any will be uploaded on official website at www.brlp.in/cosultancy.
5. Bids must be accompanied by security of the amount specified for the work in the table below, drawn in favor of Bihar Rural Livelihoods Promotion Society. Bid security will have to be in any one of the forms as specified in the bidding document and shall have to be valid for 45 days beyond the validity of the bid. Bids should be valid for 90 days after the deadline date specified for submission.

6. Bids must be delivered to: Bihar Rural Livelihoods Promotion Society on or before **15:00 hours on 08.06.2017** and will be opened on the same day at **15:30** hours, in the presence of the bidders who wish to attend. If the office happens to be closed on the date of receipt of the bids as specified, the bids will be received and opened on the next working day at the same time and venue.
7. Other details can be seen in the bidding documents.

TABLE

Package No.	Name of work	Bid Security (Rs.)	Cost of document (Rs.)	Period of completion
1	Interior Works at 3 rd floor of Annexe-II Building of Vidyut Bhawan, Patna	18.0 lakh	1000.00	5 months

Seal of office

Bihar Rural Livelihoods Promotion Society

Name: Balamurugan D.
Chief Executive Officer cum
Mission Director.

Address: 1st Floor, Annexe-II, Vidyut
Bhawan, Bailey Road, Patna -800 020
Tel. No: 91-612-2504980
Fax No. 91-612-2504960

Instructions to Bidders

SECTION - A

1. Scope of Works

The Bihar Rural Livelihoods Promotion Society invites bids for the construction of works as detailed in the table given below

Brief Description of the Works	Approximate value of Works (Rs.)	Period of Completion
Interior Works at 3 rd floor of Annexe-II Building of Vidyut Bhawan, Patna	Rs. 6.00 crore	5 months

The successful bidder will be expected to complete the works by the intended completion date specified above.

2.1 **Qualification of the bidder:** The bidder shall provide qualification information which shall include:-

- a) total monetary value of construction works performed for each year of the last 3 years (2016, 2015 & 2014);
- b) Report on his financial standing; and
- c) Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount or awards in each case.

3. **To qualify for award of the contract the bidder:-**

- (a) should have satisfactorily completed as a prime contractor at least one similar work of value not less than Rs. 600.0 lakh in the last three years (2016-17, 2015-16 & 2014-15); Contract completion certificate issued by the concerned agency, certifying therein the nature of work with completed value of the work should be attached.
- (b) should have achieved in at least one year an annual financial turnover (in civil engineering construction works of similar nature only) of value not less than Rs. 10 crore in the last three years (2015-16, 2014-15 & 2013-14); Self certified copy of audited financial statement for the above financial years should be attached.
- (c) should possess valid electrical license for executing building electrification works (in the event of the works being sub - contracted, the sub-contractor should have the necessary license);

- (e) should not have been debarred (or dealings suspended) on the date of bid opening by the Central/State Governments/undertakings or by the World Bank. An undertaking to this effect should be given.

3.1 Eligibility - Conflict of Interest*

Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:

- i. directly or indirectly controls, is controlled by or is under common control with another Bidder; or
- ii. receives or has received any direct or indirect subsidy from another Bidder; or
- iii. has the same legal representative as another Bidder; or
- iv. has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
- v. any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Engineer for the Contract implementation;
- vi. has a close business or family relationship with the concerned professional staff of the project implementing agency

(* for further details refer to Procurement Guidelines Clauses 1.6 to 1.8)

4. Bid Price

- a) The contract shall be for the whole works as described in drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialing, dating, and rewriting.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
- c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) The Bidder shall fill in rates and prices and line item total for all items of the Works described in the Bill of Quantities along with total bid price (both in figures and words). Items for which no rate or price is entered by the Bidder shall be deemed covered by the other rates and prices in the Bill of Quantities.

5. Submission of Bids

- 5.1** The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the bid.

5.2 Each bidder shall submit only one bid. Bidders should not contact other competing bidders in matters relating to this bid.

5.3 The set of bidding documents comprise of the following:

- i. Layout Drawings of the works;
- ii. Detailed Bill of Quantities;
- iii. Instructions to Bidders (in two sections); and
- iv. Draft Contract Agreement format which will be used for finalizing the agreement for this Contract.

5.4 The bid submitted by the bidder shall comprise the following:-

(a) Bid in the format given in Section B.

(b) Signed Bill of Quantities; and

(c) Qualification information form given in Section B duly completed.

(d) Bid Security, in original form for the amount of Rs. 18.0 lakh, in one of the following forms:

- A bank guarantee issued by a nationalized/scheduled bank located in India in the form given in Section B; or
- Certified cheque or Bank draft payable to Bihar Rural Livelihoods Promotion Society, payable at PATNA.
- Fixed Deposit/Time Deposit certificates issued by a Nationalized or Scheduled Bank located in India for equivalent or higher values are acceptable provided it is pledged in favor of Bihar Rural Livelihoods Promotion Society, Patna, and such pledging has been noted and suitably endorsed by the bank issuing the deposit certificate

5.5 The bidder shall seal the bid in an envelope addressed to the Bihar Rural Livelihoods Promotion Society (Purchaser). The envelope will also bear the following identification:-

- Bid for Interior Works at 3rd floor of Annexe-II Building of Vidyut Bhawan, Patna
- Do not open before _____ (time and date of bid opening).

5.6 Bids must be received in the office of the Bihar Rural Livelihoods Promotion Society not later than the time and date given in the letter of invitation. If the specified date is declared a holiday, bids shall be received upto the appointed time on the next working day.

5.7 Any bid received by the Bihar Rural Livelihoods Promotion Society, (Employer) after the deadline for submission of bids will be rejected and returned unopened to the bidder.

6. **Validity of Bid**

Bid shall remain valid for a period not less than 90 days after the deadline date specified for submission. If a Bidder withdraws/modifies/substitutes its bid during the period of bid validity specified by the Bidder on the Letter of Bid, the Bid Security may be forfeited.

7. **Opening of Bids**

Bids will be opened in the presence of bidders or their representatives who choose to attend on the date and time and at the place specified in sub-clause 5.6 above.

8. **Information** relating to evaluation of bids and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

9. **Evaluation of Bids**

9.1 **Correction of Arithmetical Errors**

Bids determined to be substantially responsive shall be checked for any arithmetic errors. Errors shall be corrected as follows:

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern;
- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, unit rate as quoted shall govern; and
- (c) the amount stated in the Bid shall be adjusted in accordance with the above procedure for the correction of errors

If the Bidder does not accept the corrected amount, the Bid shall be rejected, and the Bid Security may be forfeited.

9.2 The Employer will evaluate and compare the bids determined to be substantially responsive i.e. which

- (a) meet the qualification criteria specified in clause 3 above;
- (b) are properly signed; and
- (c) conform to the terms and conditions, specifications and drawings without material deviations.

10. **Award of contract**

The Employer will award the contract to the bidder whose bid has been determined to be substantially responsive and who has offered the lowest evaluated bid price and who meets the specified qualification criteria.

- 10.1 Notwithstanding the above, the Employer reserves the right to accept or reject any bids and to cancel the bidding process and reject all bids at any time prior to the award of contract.
- 10.2 The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the bid validity period.
- 10.3 The Bid security of unsuccessful bidders will be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the performance security pursuant to ITB 11.

11. Performance Security

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the Bihar Rural Livelihoods Promotion Society (Employer) the performance security (either a bank guarantee or a bank draft in favour of the Employer) for an amount equivalent of 5% of the contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in clause 12. Failure of the successful Bidder to furnish performance security and signing the agreement within the period stipulated shall constitute sufficient grounds for annulment of award and forfeiture of the Bid Security, in which case the Employer may make the award to the next lowest evaluated bidder or call for new bids.

12. Defects Liability:

The "Defects Liability Period" for the work is twelve months from the date of taking over possession or one full monsoon season whichever occurs later. During this period, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

- 13. Supply of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.

14. Corrupt and Fraudulent Practices

The World Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section C. In further pursuance of this policy, Bidders shall permit and shall cause its agents (whether declared or not), sub-contractors, sub-consultants, service providers, or suppliers and any personnel thereof, to permit the Bank to inspect all accounts, records and other documents relating to any prequalification process, bid submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

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SECTION - B

- 1. Format for Qualification Information.**
- 2. Format for Submission of Bid.**
- 3. Format of Letter of Acceptance.**

QUALIFICATION INFORMATION

1 For Individual Bidders

1.1 Principal place of business: _____

Power of attorney of signatory of Bid.
[Attach copy]

1.2 Total value of Civil Engineering construction work performed in the last three years (in Rs. Lakhs)

2016	_____
2015	_____
2014	_____

1.3 Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

Project Name	Name of Employer	Description of work	Contract No.	Value of contract (Rs. Lakhs)	Date of issue of work order	Stipulated period of completion	Actual date of completion	Remarks explaining reasons for delay and work completed

Existing commitments and on-going works:

Description of Work	Place & State	Contract No. & Date	Value of Contract (Rs. Lakh)	Stipulated period of completion	Value of works* remaining to be completed (Rs. Lakhs)	Anticipated date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)

* Enclose a certificate from Engineer concerned.

1.4 Proposed subcontracts and firms involved.

Sections of the works	Value of Sub-contract	Sub-contractor (name & address)	Experience in similar work*

***NOTE: Self certified photocopy of supporting document should be attached.**

1.5 Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

1.6 Information on litigation history in which the Bidder is involved.

Other party(ies)	Employer	Cause of dispute	Amount involved	Remarks showing present status

BID FORM (1)

Description of the Works: Interior Works at 3rd floor of
Annexe-II Building of Vidyut Bhawan, Patna

To:

Subject : Construction of

Reference : Letter No.....dated.....from.....

Sir,

We have no reservations to the Bidding Documents, and offer to execute the Works described in your letter referred to above in accordance with the Conditions of Contract enclosed therewith at a total Fixed Contract Price of -

Rs.** _____ [in figures]

Rs. _____ [in words].

This bid and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any bid you receive.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery or collusive arrangements with competitors.

We also undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India on date namely "Prevention of Corruption Act 1988."

We hereby confirm that this bid is valid for 90 days as required in Clause 6 of the Instructions to Bidders.

We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3.1

We have not been debarred/removed from approved list (dealings suspended) by the Central or any State Government or by the World Bank.

Yours faithfully,

Authorized Signature : Date: _____

Name & Title of Signatory : _____

Name of Bidder : _____

Address : _____

** To be filled in by the Bidder, together with his particulars and date of submission at the bottom of this Form.

BID FORM (2)

A) :- CIVIL -							
SR. NO.	SOR 2016	SPECIFICATION	UNIT	QTY	Make/ Model	Unit Rate	Total Amount
A.		CIVIL					
1	15.8	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50m (stacks of cleaned bricks shall be measured):					
	15.8.3	From brick work in cement mortar	Cum	13			
2	15.2	Demolishing cement concrete including disposal of material within 50 meter lead:					
	15.2.1	1:3:6 or leaner mix		4			
3	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm.	250			
4	15.12	<u>Demolition of existing doors/ windows/Rolling Shutter & removal of debries</u>					

	15.12.1	<u>Of area 3 sqm and below</u>	Sqm.	16			
5	N.S.	<u>Demolition of existing sanitary/plumbing fixtures & removal of debries</u>	L.S.	1			
6 a)	N.S.	<u>Chase cutting at floor</u>	Rmt	156			
b)	N.S.	<u>Chase cutting at wall</u>	Rmt	301			
7	N.S.	Providing Pest control and Anti-termite treatment by appointing a specialized agency as per the specifications mentioned by the Bureau of Indian Standards and Agencies specifications (whichever is higher) for general civil, plumbing / drainage and timber / carpentry works, gypsum related work, including a 5-year guarantee under suitable undertaking on stamp paper etc., complete as directed. (Mode of measurement to be on carpet-area of floor and not the area of surface treated) With chlopyriphons EC 20 % with 1 % concentration.	Sqm.	1,300.00			
8	6.1.14A +6.3A	Extra for brick work in superstructure above plinth level upto floor V (cement mortar 1:6 (1 cement :6 coarse sand)	Cum	6.80			

9	6.18.4A+ 6.19A	Extra for Half brick masonry in superstructure above plinth level upto floor V level (cement mortar 1:4)	Sqm.	54			
10	13.11.2	Cement plaster in course sand 12mm cement plaster of mix : (12:4 (1cement :4: sand)	Sqm.	200			
11	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).	Cum	2			
12	5.22	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.					
	5.22.7A	Thermo-Mechanically treated bars TMTC - 500- 8 mm dia	kg	350.00			
13	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:					

	5.9 .5	<u>Lintels, beams,</u> plinth beams, girders, bressumers and cantilevers.	Sqm	19.00			
B.		FLOORING & CLADDING					
14	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level.					
	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	Cum	11.00			
15	11.4	IPS Flooring52 mm thick cement concrete flooring with metallic concrete hardener topping under layer 40 mm thick cement concrete 1:2:4(1cement:2 coarse sand: 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick metallic concrete hardener consisting of mix 1:2 (1 cement hardener mix:2 stone aggregate 6 mm nominal size) by volume @ 2 liter per 50 kg of cement or as per manufacture specification. This includes cost of cement slurry, etc. but excluding the cost of nosing of steps etc. complete.	Sqm.	160.00			

16	11.46 .2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colors & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.	Sqm.	986			
17	11.38	Providing and laying Ceramic glazed floor tiles 300 x 300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in colors such shades except white, Ivory, Grey, Fume Red, Brown, laid on 20 mm thick Cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	Sqm.	73			

18	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colors and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).	Sqm.	44			
19	N.S.	Providing and laying of floor carpet tile 500mm x 500mm of nylon yarn, 7-8mm thick of approved make and shade pasted on smooth dust-free surface with adhesive as per manufacturer's specification. Rate includes the plastic cover till final handover of site.	Sqm.	120.00			
20	N.S.	Wooden Skirting Providing and fixing skirting of prelaminated with (one side decorative other side balancing lamination) fiat pressed, 3 layer and graded particle board (medium density) (Grade 1, type2) conforming to	RM	26			

		IS: 12823. with necessary fixing arrangements and screws including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete (18 mm thick					
21	N.S.	False Flooring (Supply and fixing of 600mm x 600mm false floor cementitious concrete infill false flooring system (ESRGS) & inclusive of a top finish of high pressure anti-static laminate of factory finish covered with anti-static PVC edge beading. Should be an ISO certified product. The system should be able to withstand a minimum point load of 300 Kg per sq.cm & the pedestal assembly should be able to withstand a uniformly distributed load of 800 Kg per sq.m. Top plate & Bottom plate of 0.7mm steel width. Pedestal pipe should be yellow zinc plated 450mm high.)	Sqm.	10.00			
22	8.2.	Granite Flooring/window sill :- (Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias and similar locations of required size of	Sqm.				

		approved shade, color and texture laid over 20 mm thick base cement mortar 1:4 (1 cement :4 coarse sand) with joints treated with white cement, mixed with matching pigment-epoxy touch ups. including rubbing, curing etc. complete at all Ibevels.)					
a)	8.2.2.2	Granite of any color and shade (Area of slab over 0.50 sqm)	sqm	90.00			
b)	8.2.2.2	Granite Clading:- Granite of any color and shade (Area of slab over 0.50 sqm)	Sqm.	60.00			
23	8.3	Providing edge moulding to 18 mm thick marble stone counters, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
	8.3.2	Granite work	M	160			
24	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by	Sqm	190.00			

		Engineer-in-charge in skirting, risers of steps and dados over 12mm thick bed of Cement Mortar 1:3 (1 Cement:3 Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.					
25	N.S.	Pre-Laminated Wooden Flooring :-Supply & installation of pre-laminated plank flooring, 8 mm. thick over 2 mm. thick underlay foam completed with all accessories as approved by Architect. Base Rate to be taken for AC-3 grade material.	Sqm.	46			
	C.	FALSE CEILING					

26	12.45	<p>Plain Gypsum False Ceiling:- Providing and fixing gypsum false ceiling of India Gypsum make which includes G.I. perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall / partition with the help of nylon sleeves and screws at 610mm centres. Then suspending G.I. intermediate channels of size 45mm (0.9mm thick with two flanges of 15mm each) from the soffit at 1220mm centres with ceiling angle of width 25mm X 10mm X 0.55mm thick fixed to soffit with G.I. cleat and steel expansion fasteners. Ceiling section of 0.55mm thick having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clips and in direction perpendicular to the intermediate channel at 457mm centres. 12.5mm tapered edge gypboard (conforming to IS 2095-1982) is then screw fixed to ceiling section with 25mm dry wall Philips screws at 230mm</p>					
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		centres. Screw fixing is done mechanically with drilling machine with suitable attachment. Finally tapered edges of the gypboards are to be jointed and finished so as to have a flush look which includes filling and finishing with jointing compound, joint paper tape and two coats of dry wall top coat suitable for gypboard (as per recommended practice of BPB India gypsum) etc. complete as per the recommended practices of India Gypsum. Rate to be included all kinds of profiles and cut-outs required for light fixtures, speakers, smoke detectors, trap doors and AC grill in the ceiling. All steel sections to be marked with "GYPSTEEL" which is a registered.						
	12.45.4	Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer incharge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60	Sqm.	500				

27	12.52	<p>Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross “T” of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main “T” at 600 mm center to center to form a grid of 1200x600 mm and secondary cross “T” of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main “T” runners</p>					
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		to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.					
	12.52.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	Sqm	900.00			
28	12.58	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot					

	<p>dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross “T” of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main “T” at 600 mm center to center to form a grid of 1200x600 mm and secondary cross “T” of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24 x24x 0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main “T” runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm</p>					
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		GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.					
	12.58.1	8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non-woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick Rockwool of 48 kg /cum backing.	sqm	200			

29	N.S.	Rafter Ceiling :- Supply & installation of Wooden rafter ceiling with 12mm BWR grade Plywood with Textured Laminate finish of approved make of section 150x150mm @200mm c/c of approved design with necessary ss hanging support arrangement above ceiling . All complete as per direction of EIC/Architect. Rate will be calculated on the effective ceiling area.	Sqm..	12.00			
	4	PARTITION & PANELLING					
30 (a)	N.S.	Full Height Gypsum Partition :- Providing and fixing 100mm thick gypsum partition which includes two layers of tapered edge 12.5mm thick gypboard (conforming to IS 2095-1982 & 2542-1981) screw fixed with 25mm dry wall screw for first layer and 35mm for second layer at 300mm centres to either side of 48mm studs (0.55mm thick having one flange of 34mm and another flange of 36mm made of GI steel) placed at 610mm centre to centre in 50mm floor and ceiling channel (0.55mm thick having equal	Sqm.	382			

		<p>flanges of 32mm made of GI steel) with joints staggered on each layer to avoid through joints. Finally square and tapered edges of the boards are to be jointed and finished so as to have a flush look which includes filling and finishing with jointing compound, joint paper tape and two coats of drywall top coat suitable for gypboard (as per recommended practice of India Gypsum or equivalent) . Rate shall be inclusive USG make gypsum edge guard on edges of the partition and finished as per manufacturer's specifications. Necessary cut-outs shall be provided for taking of supply and return air ducts / openings which shall be neatly finished with PU sealant of HILTI make after fixing of ducts thereby leaving no gaps. The partition should be finished so as to take on wall paper / paint directly by applying suitable base coats etc. all complete. Measurement shall</p>						
(b)	N.S.	<u>A</u> bove ceiling gypsum	Sqm.	67				

31	N.S.	Rock Wool Insulation :- Providing and filling rock wool insulation of density 24 kg per cum wrapped in RP tissues, thickness of glass wool 50mm, and to be continued right up to the slab level, as per manufacturer's specifications etc. complete. Measurement shall be running length multiplied by height upto true ceiling.	Sqm.	382			
32	N.S.	Full Glazed Partition :- Supply and installation of Full height Glass Partition with 12 mm. thick Toughened Glass resting over Al channel of approved make all complete as per direction of the Architect & EIC.	Sqm.	160			
33	N.S.	Wall Panelling : - Designing, supplying, fabricating and erecting of panelling on walls made with approved plywood frame, placing @ 600 c/c both horizontal and vertical fixed with rawal plug on the walls, or any space that needs panelling work in level and plumb with edge finishes as per drawing and direction of E.I.C. Providing and fixing of approved quality and shade 1mm thick laminate with approved adhesive	Sqm.	201			

		on 12/19mm thick BWR commercial Ply fixed over primary surface as per drawing and direction of E.I.C.					
34	N.S.	Column Capital & Panelling :- Designing, supplying, fabricating and erecting of panelling on columns made with approved plywood frame, placing @ 600 c/c both horizontal and vertical fixed with rawal plug on the walls, or any space that needs panelling work in level and plumb with edge finishes as per drawing and direction of E.I.C. Providing and fixing of approved quality and shade 1mm thick laminate with approved adhesive on 12 thick BWR commercial Ply fixed over primary surface as per drawing and direction of E.I.C.	Sqm.	320.00			
35	9.73A	Pelmets: - Providing and fixing 18 mm thick. 150mm wide pelmet of flat pressed 3 layer and graded particle board (medium density grade Icon forming to IS 3087) including top cover of 6 mm commercial ply wood, nickel plated M.S. pipe 20 mm dia. (heavy type) curtain rod with	Rmt	160.00			

		nickel plated brackets including fixing with 25 x3 mm M.S. Hat 10cm ling and rawl plugs 50mm long (designation 10 no.)etc. all complete Details of cost for a pelmet 2m long					
	5	WALL PREPARATION & FINISHES					
36	13.80 A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		2464			
37	DSR 13.83.2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved and and manufacture, including applying additional coats wherever required to achieve even shade and color. Two coats	Sqm.	2464			
38	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an even shade :	Sqm.	150			

39	N.S.	Wall Paper: - Providing and fixing of wall paper with surface preparation. Wall paper to be 100% washable.	Sqm.	224			
		BUILT-IN JOINERIES					
40	9.1	Providing Wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position.					
	9.1.1	second class teakwood	Cum	2.00			
41	9.20	Flush Door :- Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters..					
	9.20.1	35 mm thick including stainless steel butt hinges with necessary screws sqm.	Smt	62			

42	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	sqm	88			
		<u>Glass Door/window</u>					
43	N.S.	Providing and Fixing Senor operated 12 mm thick Toughened glass door shutter of approved brand and manufacture, Door handle, lock and stopper etc. All complete as per direction of Engineer-in-charge.	Each	3			
44	9.100.1	Providing and fixing aluminum handles anodized (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required color or shade with necessary screws etc. complete.					
	9.100.1	125 mm	Each	20.00			

	9.100.2	100 mm	Each	20.00			
45	9.96	Providing and fixing aluminum sliding door bolts anodized (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required color or shade with nuts and screws etc. complete:					
	9.96.2	250 x 16 mm	Each	30.00			
46	9.97	Providing and fixing aluminum tower bolts anodized (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required color or shade with necessary screws etc. complete.					
	9.97.4	150 x 10 mm	Each	20.00			
	9.97.5	100x10 mm	Each	10.00			
47	9.98	Providing and fixing aluminum pull bolt lock anodized (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required color or shade with necessary screws etc. complete.	Each	15.00			
48	9.88	Providing and fixing bright finished brass 100 mm mortice latch and lock with six levers and a pair of anodized (anodic	Each	14.00			

		coating not less than grade AC 10 as per IS: 1868) aluminum lever with necessary screws etc. Completed Best make of approved Quality).					
49	9.101	Providing and fixing aluminum hanging floor door stopper anodized (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required color and shade with necessary screws etc. complete.					
	9.101.2	Twin rubber stopper	Each	14.00			
50	21.4.2	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight up to 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. minimum 1.25 mm	Each	30.00			

		Thickness Floor Spring					
51	N.S.	Janitor Closet: - Providing and fixing of janitor closet, depth 450mm with 19mm thick commercial plywood finished in laminate of approved shade. Shelves shall be of removal type and all internal surfaces shall be finished with backing laminate, complete as approved by EIC.	Sqm.	15.00			
52	N.S.	Display Cabinet : - Providing and fixing of Display Cabinet, depth 450mm with 19mm thick commercial plywood finished in laminate of approved shade with openable glass (10mm toughened) and all internal surfaces shall be finished with backing laminate, complete as approved by EIC.	Sqm.	25.00			
53	N.S.	Pantry Counter : -Providing and fixing 600mm wide pantry counter with top in approved sample pre-polished granite slab 18mm thick laid on 25mm thick one side polished cuddapah in cement mortar 1:4 in between, supported on 19mm thick both sides polished cuddapah verticals as directed. Providing 100mm high front facia and band above	Rmt.	3.00			

		<p>the counter in same shade granite. All exposed surfaces of platform to be finished in same granite slab. Necessary cut-outs for sink to be provided and all cut-outs, exposed edges to be bull Nosed with mirror polish. Cost to also include making necessary cut-outs for taking Pipes through counter top. Cost to also include of providing 100mm high raised platform in brickbat coba, with polished granite tile skirting as per specifications. All vertical surfaces of wall / partition below counter top to be finished in 200 x 200mm second grade approved make white color ceramic tiles. Cost to also include making necessary cut-outs for taking drainage pipes and Nahni traps in raised platform, all completed and finished to satisfactory conditions. Cost to be inclusive of shutters of 19mm thick commercial grade plywood finished in approved shade laminate on exposed surface and balancing laminate on internal surfaces inclusive of necessary teak wood beading and frame work finished in color polish to match the shade of the laminate</p>					
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		or as directed. Cost to be inclusive of horizontal shelves in 19mm thick commercial grade plywood finished in approved shade laminate. Hardware to include dead locks with SS finish keyhole, brush SS finish handle, SS tower.					
54	N.S.	Laminated A-V Cabinet: - Fabricating and fixing of AV cabinet formed of 19mm ply formwork/carcass with adjustable shelves of laminated 19mm BWR ply. Shutters of cabinet to be formed of 19mm thick ply finished with laminate of approved shade with approved SS handles as per details. Rear backing of cabinet to be formed with 12mm thick ply with laminate finish. Top to be made of 19mm BWR ply finished with laminate of approved shade as per details. All internal surface to be finished in backing laminate.	Sqm.	4.00			

55	N.S.	<p>Over Head Storage : -Providing and fixing overhead storage of depth 400mm and size as per drawings, with top, sides and bottom in 19mm thick commercial grade plywood, back in 8mm thick commercial grade plywood, intermediate in 19mm thick commercial grade plywood, shutter in 19mm thick commercial grade block board. All external surfaces to be finished in approved laminate, with balancing laminate on the interior surface. All exposed edges to be finished in PVC edge banding. Rate to include hardware such as approved locks, auto-closing hinges for shutters, approved handles, door stop, tower bolt, etc. complete.</p>	Sqm.	12.00			
56	N.S.	<p>Reception Back-drop: - Providing and fabricating reception backdrop, as per approved design and size made of 12/19mm thick commercial plywood finished on all exposed surfaces with 1mm thick designer laminate of approved shade. Surface to house the LOGO in SS matt finish of grade SS 304, all complete as directed by the Architect.</p>	Nos.	1.00			

57	N.S.	Full Height Storage (2700mm height) :- Providing and fixing of Full height storage of 2700mm high, depth 450mm with 19mm thick commercial plywood finished in laminate of approved shade. Shelves shall be of removal type and all internal surfaces shall be finished with backing laminate, complete as approved by EIC.	sqm	110			
	9	MISCELLANEOUS ITEMS					
58	N.S.	Frosted Glass Film : - Providing and fixing of frosted sparkle film on glazed partition and door as per approved design by the Architect	Sqm.	247			
59	N.S.	Vertical Blinds: - Providing and fixing of vertical blinds of approved shade by the Architect, all complete with channel, chord, string, clutch and accessories as required.	Sqm.	25.00			
60	N.S.	Roller Blinds: - Providing and fixing of roller blinds of approved shade by the Architect, all complete with roller, chord, string, clutch and accessories as required. Openness factor of fabric not to exceed 5%.	Sqm.	187			

61		Carriage of materials including transportations, loading, unloading, stacking etc. all complete.					
		i) sand (45 km lead)	Cum	27			
		iii stone chips (11.5 km lead)	Cum	2			
		iii) Bricks (1 km Kachha +7km pacca)	1000 Nos.	5600			
		Extra					
		i) Cement	bag	113			
		ii) Bricks	1000 Nos.	5600			

B) :- PHE WORK

S.N.	S.O.R 2016	DESCRIPTION	UNIT	QTY	Make/Model	Unit Rate	Total Amount
I- B. WATER SUPPLY							
1	18.50.1	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.	Each	12.00			
2	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15	Each	12.00			

		mm nominal bore					
3	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931					
		15 mm nominal bore	Each	36.00			
4	18.21	Providing and fixing PVC connection pipe with brass unions					
	18.21.2	45 cm length					
	18.21.2.1	15 mm nominal bore	Each	36.00			
5	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore					
	18.53.1	15mm nominal bore	Each	36.00			
6		Supplying fitting and fixing the following items complete with all materials as per specifications and direction of E/I					
a	17.33	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodized aluminum angle frame with C.P brass brackets and guard rail complete fixed with 40mm long screws, rawl plugs etc., complete	Each	12.00			

b	17.31	Providing and fixing 600 x 450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	12.00			
c	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and color.					
	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	12.00			
d	M.R.	Providing and fixing C.P.Matt Chrome finish Toilet Paper Holder, Jaquar make Cat. No. ACN- 1153N, inclusive of taxes royalty all complete as per specification and direction of Engineer-in-charge.	Each	8.00			
E.	M.R.	Providing and fixing Towel ring Jaquar make Cat. No.ACN1121N inclusive of taxes royalty all complete as per specification and direction of Engineer-in-charge.	Each	7.00			
F.	M.R.	Providing and fixing Soap Dish, Jaquar make ACN.1135 N, inclusive of taxes royalty all complete as per specification and direction of	Each	7.00			

		Engineer-in-charge.					
7	18.1	Providing and fixing G.I pipes complete with G.I fittings and clamps, including and making good the wall etc. (internal work)					
		Exposed on wall					
	18.10.2	20 mm dia nominal bore	Metre	42.00			
	18.10.3	25 mm dia nominal bore	Metre	94.00			
8	18.11	Providing and fixing G.I. concealed pipe including painting with anti-corrosive bitumastic paint, cutting chases and making good the wall					
	18.11.1	15 mm dia nominal bore	Metre	102.00			
	18.11.2	20 mm dia nominal bore	Metre	84.00			
9	18.38.	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :					
	18.38.2	20 mm dia nominal bore	Metre	42.00			
	18.38.3	25 mm dia nominal bore	Metre	94.00			
10	18.17	Providing and fixing gun metal gate valve with C.I wheel of approved quality (screwed end)					
	18.17.2	32mm nominal bore	Each	7.00			

	18.17.3	40 mm nominal bore	Each	3.00			
11	17.28	Providing and fixing P.V.C waste pipe for sink or wash basin including P.V.C waste fittings complete.					
	17.28.1	semi rigid pipe					
	17.28.1.1	32mm dia	Each	25.00			
II- SANITARY INSTALLATION							
12	17.1	Providing and fixing water closet squatting pan (Indian type W.C pan) with 100 mm P or S -trap 10 litre low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.					
	17.1.1	White Vitreous china Orissa patterns W.C pan of size 580 mm x 440 mm with integral type foot rest.	Each	8.00			
13	M.R.	Providing and fixing white color vitreous china wall mounted European type water closet Parryware VERVE C0295 mounting Constellation with seat cover and accessories, Pipe work Concealed behind wall & Cast iron Chair Bracket and Rag Bolts flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved					

		municipal design complete including painting of fittings and brackets , cutting and making good the walls and floors wherever required: (Hindware /Shera / Parryware & equivalent make)					
		W.C. pan with ISI marked white solid plastic seat	Each	4.00			
14	M.R.	Providing and fixing white colored counter Top Wash Basin PARRYWARE C848H all complete inclusive of taxes and royalty as per specification and direction of Engineer-in-charge. (Hindware /Shera / Parryware & equivalent make)	Each	12.00			
15	M.R.	Providing and fixing white color vitreous china URINAL with flush fittings Parryware make Whiz C0580 & C8123 including painting of fittings and brackets , cutting and making good the walls and floors wherever required: (Hindware /Shera / Parryware & equivalent make)	Each	12.00			
16	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and					

		making good the walls wherever required :					
	17.10.1.3	510x1040 mm bowl depth 200 mm	Each	1.00			
17	12.78.2	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 110 mm gap for thermal expansion, (i) Single socketed pipes.	Metre	237.00			
18	12.79	Providing and fixing on wall face unplasticised -PVC moulded fittings/accessories for unplasticised -Riging PVC pipes conforming to IS: 4985 including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion.					
A	12.79.3.2	Single tee with door					
		110 x 110x 110 mm	Each	10.00			
b	12.79.4	single tee without door					
	12.79.4.2	110 x 110x 110 mm	Each	24.00			
C	12.79.5.2	Bend					
	12.79.5.2	110 mm bend	Each	72.00			

D	12.80	Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50 x 50 x 50mm hard wood plugs, screwed with M.s screws of required length including cutting brick work and fixing in cement mortar 1;4 (1 cement: 4 coarse sand) and making good the wall etc. complete.110 mm	Each	60.00			
19	17.60	Providing and fixing trap of self-cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors.					
	17.60.1	100 mm inlet and 100 mm outlet	Each	20.00			
		III - SEWERAGE					
20	19.6	Providing and laying non-pressure NP ₂ class (light duty) R.C.C pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc. complete.					
	19.6.2	150 mm dia. R.C.C pipe	Metre	60.00			

21	2.10.1.2	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.					
		All kinds of soil.					
		Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	Metre	60.00			
22 (a)	19.7	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) R.C.C top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarsesand:4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete					

		as per standard design:					
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I cover with frame (light duty) 455 x 610mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame of 15 kg)					
	19.7.1.1	With F.P.S bricks	Each	8.00			
(b)	19.7.2	Inside size 120 x 90cm deep including C.I cover with frame (medium duty) 500mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg.)					
	19.7.2.1	With F.P.S Bricks	Each	5.00			
23	19.4	Providing and fixing square-mouth S.W gully trap grade 'A' complete with C.I grating brick masonry chamber with water tight C.I cover with frame of 300 x 300mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design.					
	19.4.3	180 x 150mm size P type					
	19.4.3.1	With F.P.S Bricks class designation 75	Each	1.00			

Item No.	Ref	Description	Unit	Quantity	Make/ Model	Unit Rate	Total Amount
C : ELECTRICAL WORKS							
S.H. I : WIRING							
3.1.01	1.3.3 BSR 2016	: Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box etc. as required.					
		Group C	Point	485.00			
3.1.02	1.4.BSR	Wiring for twin control light point with 1.5 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, 2 way modular switch, modular plate, suitable G.I. box etc. as required.		Point	2.00		
3.1.03	1.5 BSR	Wiring for light / power plug with 2 x 4 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit alongwith 1 no. 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.		Meter	1500.00		
3.1.04	1.7. BSR	: Wiring for circuit / submain wiring alongwith earthwire with the following sizes of PVC insulated copper conductor, single core cable in surface / recessed PVC conduit as required.					
(a)	1.7.1	2 x 1.5 sq.mm. + 1 x 1.5 sq. mm earth wire		Meter	650.00		
(b)	1.7.2	2 x 2.5 sq.mm. + 1 x 2.5 sq. mm earth wire		Meter	1650.00		
(c)	1.7.4	2 x 6 sq.mm. + 1 x 6 sq. mm earth wire		Meter	140.00		

	1.7.1 1	4 x 6 sq.mm. + 1 x 6sq. mm earth wire	Meter	150.00			
(d)	1.7.12	4 x 10 sq.mm. + 1 x 10 sq. mm earth wire	Meter	160.00			
(e)	1.7.13	4 x 16 sq.mm. + 1x 16 sq. mm earth wire	Meter	160.00			
(f)	1.7.1 4BS R	4 x 25 sq.mm. + 1 x 16 sq. mm earth wire	Meter	15.00			
3.1.05	1.16. BSR	Supplying and drawing following pair, 0.5 sq. mm FR PVC insulated copper conductor, unarmoured telephone cables in existing surface / recessed steel / PVC conduit as required					
		2 Pair	Metre	550.00			
		4Pair	Metre	500.00			
		10 Pair	Metre	450.00			
	MR	Supplying , fixing, fitting and connection of 50 pair telephone D.P. BOX, all complete as required	Each	3.00			
	MR	Supplying , fixing, fitting and connection of 200 pair telephone D.P. BOX, all complete as required	Each	1.00			
3.1.06	1.17 BSR	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid core copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel / PVC conduit as required.	Metre	70.00			
3.1.07	1.21. BSR	S/F PVC conduit: Supplying and fixing of following sizes of PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recess conduit as required.					

		20mm	Metre	445.00			
		25 mm	Metre	350.00			
3.1.08	1.24 BSR	Supplying and fixing following modular type switch / socket on the existing modular switch/ socket on the existing modular plate& switch box including connections but excluding modular plate etc. as required.					
(a)	1.24.1	6/10A switch	Each	60.00			
(b)	1.24.4	5 pin 5/6 A socket outlet	Each	60.00			
(c)	1.24.6	Telephone socket outlet	Each	150.00			
(d)	1.24.5	6pin 16/20 A socket outlet	Each	0.00			
(e)	1.24.3	16/20A switch	Each	0.00			
(f)	1.24.7	TV antena socket outlet	Each	2.00			
	1.27 BSR	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess as required.					
	1.27.1	1 or 2 Module (78 mm x 78 mmx45mm)	Each	152.00			
	1.27.2	3 Module (100 mm x 78 mmx45mm)	Each	18.00			
3.1.09	1.27.3	4 Module (140mm x 78 mmx50mm)	Each	18.00			

	1.27.4	6 Module (205 mm x 78mmx50mm)	Each	20.00			
	1.27.5	8 Module (230mmx78 mm x 60mm)	Each	20.00			
	1.27.6	12Module (135 mm x205mmx 60 mm)	Each	16.00			
3.1.11	1.26 BSR	Supplying and fixing blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	100.00			
3.1.12	1.31 BSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required.(For light plugs to be used in nonresidential buildings.)	Each	25.00			
3.1.13	1.32 BSR	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 20/16 amps modular socket outlet and 20/16 amps modular switch, connection, painting etc. as required.	Each	60.00			
3.1.14	2.19 BSR	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 'C' series, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	55.00			
3.1.15	1.33 BSR	Supplying and fixing 2 pin, 5 amp. Ceiling rose on the existing junction box / wooden block including connection etc. as required.	Each	25.00			
3.1.16	1.25 BSR	Supplying and fixing stepped type electronic fan regulator on existing modular plate switch box including connection etc. as required.	Each	1.00			

3.1.17	1.34 BSR	Supplying and fixing batten / angle holder including connection etc. as required.	Each	18.00			
S.H. II : FITTINGS & ACCESSORIES							
3.2.01	5.11.4	Supplying and fixing recess mounted 12W LED vertical down lighter luminaire complete with all accessories and replaceable electronic driver, directoy on false ceiling including connection with 1.5 sq.mm.FR PVC INSULATED copper conductor cable and earthing the body as required.	Each	180.00			
3.2.02	5.11.3	Supplying and fixing recess mounted 6/7 W LED vertical down lighter luminaire complete with all accessories and replaceable electronic driver, directoy on false ceiling including connection with 1.5 sq.mm.FR PVC INSULATED copper conductor cable and earthing the body as required.	Each	12.00			
3.2.05	5.10.3.	Supplying and fixing indoor recess mounted 36 W LED flat panel luminaire suitable for armstrong /grid ceiling ,complete with electronic driver etc. directoy on false ceiling including connection with 1.5 sq.mm.FR PVC INSULATED copper conductor cable and earthing the body as required.	Each	96.00			
3.2.06	BSR 1.37	Providing and fixing Ding Dong Bell for surface Mounting all-inclusive as per specification and direction of E/I.	Each	10.00			
3.2.07	8.11.7	Supply and installation of 400 mm 230 v AC wall /cabin fan including fixing the bracket , making connection, testing , commissioning etc. as required.	Each	120.00			
3.2.08	8.11.4	Supply and installation of 300 mm 230 v AC exhaust fan in the existing opening including making good the damage, connection, testing, commissioning etc. as required.	Each	12.00			

	5.9.2	Providing and fixing following powder coated batten for 28 watt T5 fluorescent tube, complete with all accessories directly on ceiling/wall including connection with 1.5 sq.mm FR PVC insulated copper conductor cable etc. All complete as required.	Each	32.00			
3.2.09	5.3.1	Providing and fixing following mounting rail /box type fluorescent fitting of all type complete with all accessories ,1x4'-40w fluorescent lamp ,etc. directly on ceiling/wall including connection with 1.5 sq.mm FR PVC insulated copper conductor cable etc. All complete as required.	Each	12.00			
3.2.10	6.1.7	Providing and fixing following types of lamp in the existing electrical fitting/fixture, bracket holder etc. All complete as required.	Each	12.00			
S.H. III : BOARD & D.B.'s							
3.3.01	2.9.4 BSR	Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
		4 way (4 + 12), Double door, horizontal type	Each	9.00			
	2.8.8	8 way Double door SPN DB	Each	3.00			
	2.8.9	12 way Double door SPN DB	Each	6.00			
	2.9.5	6 way (4 + 18), Double door, horizontal TPN DB.	Each	6.00			

3.3.02	BSR 2.12.1	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker, suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
		Single pole	Each	312.00			
3.3.03	2.17.2.17. BSR 2.17.03 02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
		40 amps	Each	3.00			
		63 amps	Each	6.00			
	2.12.7	S/F TPN MCB: Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, Miniature circuit breaker (MCB), in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	2.12.6	40 amps	Each	9.00			
	2.12.7	63 amps	Each	6.00			
S.H. IV : CABLE , PANEL , & EARTHING WORK							
3.4.01	BSR 7.1.4,2215+ C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armored Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 400 sqm	Meter	95.00			

3.4.01	BSR 7.1.4,2214+ C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armoured Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 300 sqm	Meter	95.00			
	BSR 7.1.2.,2209 + C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armoured Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 95 sqm	Meter	125.00			
3.4.01	BSR 7.1.2.,2207 + C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armoured Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 50 sqm	Meter	75.00			
3.4.02	BSR 2.7.9	Providing and fixing 4 pole ON-load/panel mounted Changeover Switch ,IN EXISTING PANEL BOARD ,400 Amp Rating, making connection and earthing the body etc. All complete as per specification and direction of E/I.	Each	1.00			
3.4.03	8.10.4	Providing and fixing digital volt meter 3 phase in existing cubicle panel board including drilling holes in panel board, making connection etc. All complete as required.	Each	6.00			
3.4.04	RA 4	Providing and fixing Indicator Lamp LED type all complete as per specification and direction of E/I.	Each	18.00			

3.4.05	8.10.6	Providing and fixing digital aameter 3 phase in existing cubicle panel board including drilling holes in panel board, making connection etc. All complete as required.	Meter	6.00			
3.4.06	BSR 8.10.2.	Supplying and fixing wall / floor mounted cubicle panel board fabricated with 16 SWG MS sheet, suitable for panel mounted switch disconnecter, including busbar chamber, insulator and Painting etc .as required. (but without busbar copper strip)	sft.	90.00			
3.4.7	BSR 2.3.9	Providing and fixing 400 A / 415 V cubical Switch Fuse unit inside the existing cubicle panel board with ISI marked HRC fuses including drilling holes in cubical panel ,making connection etc.as required.	Each	1.00			
	BSR 2.4.2	S/F MCCB in cubicle panel board: Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.160 Amp, 35KA	Each	9.00			
3.4.8	BSR 2.4.2	S/F MCCB in cubicle panel board: Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.25/100 Amp, 16KA	Each	30.00			
	BSR 2.5.6	Supplying and fixing 500 amps. TPN , copper busbar complete with all accessories as required	Each	1.00			

3.4.9	BSR 2.5.3	Supplying and fixing 200 amps. TPN , copper busbar complete with all accessories as required	Each	6.00			
3.4.13	BSR 3.13.	proving and laying earth connection from earth electrode with 4 mm dia copper wire in 15mm dia G.I. Pipe from earth electrode including connection with, copper thimble, excavation and refilling etc., a as required.	Meter	50.00			
3.4.14	BSR 3.6.	Earthing with copper earth plate 600 mm X 600mmX3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc . With charcoal /cock and salt as required. .	each	4.00			
3.4.15	BSR 3.19	Supplying and fixing 4 mm dia. copper wire on surface or, in recess for loop earthing along with existing surface/recessed conduit / submain wiring/cable as required.	Meter	80.00			
ESTIMATE FOR UPS WIRING SYSTEM							
		SUBHEAD 2: UPS WIRING	Unit	quantity	Make/Model	Unit Rate	Total Amount
	8.10.2+2.4. 3+2.5.3+2.1 5.1+2.15.2+ 8.10.4	Supplying installation , connection and testing of cubical type ups panel ,made of 16 gauge steel sheet ,dust and vermin proof ,powder coated paint ,compartlised ,lockable type PANEL (3'X2') ,comprising with following :- . 100A TPN MCCB -1NO. OUT GOING 40ASPN 3 NOS., 63A SPN MCB 6 NOS. , 200A BUSBAR, -1 NO., volt meter, indicator lamp etc. all complete as required.	Each	1.00			

	BSR 1.27.6+1.24 .1+1.24.3, +1.24.4.+1. 24.5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 2 NOS 3 pin 5/6 amps modular socket outlet and 2 NOS 5/6 amps modular switch, and 1 no. 16A sw. & socket for raw power ,connection, etc. as required. (For light plugs to be used in non-residential buildings.)	each	160.00			
	1.7. BSR	Wiring for circuit / submain wiring along with earthwire with the following sizes of PVC insulated copper conductor, single core cable in surface / recessed PVC conduit as required.					
	1.7.1	2 x 1.5 sq.mm. + 1 x 1.5 sq. mm earth wire	Meter	500.00			
	1.7.2	2 x 2.5 sq.mm. + 1 x 2.5 sq. mm earth wire	Meter	1600.00			
	1.7.4	2 x 6 sq.mm. + 1 x 6 sq. mm earth wire	Meter	400.00			

D :- COMPUTER NETWORK

SL NO	DESCRIPTION	UNIT	QTY	Make/ Model	Unit Rate	Total Amount
A	DATA & VOICE PASSIVE COMPONENTS					
1	Category 6 Cable 305 mtr Roll for data	RMT	13500			
2	Category 6 I/O keystone type for data.	NOS	198			
3	1 mtr Patch Cord category 6 for data	NOS	144			

4	2 Mtr Patch cord category 6 for data	NOS	154			
5	24 Port Patch Panel keystone type data	NOS	9			
6	Single Face Plate	NOS	18			
7	Duplex Face Plate	NOS	116			
8	Quard face Plate	NOS	24			
9	Category 6 I/O keystone type for voice	NOS	168			
10	24 Port Patch Panel keystone type Voice Field side	NOS	7			
11	24 Port Patch Panel keystone type Voice EPABX side	NOS	7			
12	42U, 800 mm wide x 1000mm depth Server rack with the following specifications,	NOS	1			
a	4 fans at top for ventilation.					
b	Front perforated door with lock & key, rear perforated split door with lock & key.					
c	Castor wheels.					
d	2 nos. Power bar with 14 nos. IEC C13 sockets.					
e	Lables for Patch Panel.					
f	ESD Port Kit & ESD Wrist Strap.					
13	1 Mtr Patch Cord category 6 for Voice	NOS	139			
14	100 pair MDF with Module	NOS	2			
B	DATA & VOICE ACTIVE COMPONENTS					
1	Wire Less Access Point (Indoor)	NOS	12			
2	Power injector for wireless Access Point	NOS	12			

3	Wall mount kit for wireless access	NOS	12			
4	24-port switch (10/100/1000 MBPS ,Unmanaged)	NOS	7			
5	2504 Wireless controller with 15 AP License	NOS	1			
6	Wireless LAN controller with License	NOS	1			
7	EPABX having active 166 analog ,4 digital extensions with PRI system	NOS	1			
8	Telephone set					
a	Analogue set	NOS	RO			
b	Digital set	NOS	RO			

E :- PASYSTEM

SL NO	DESCRIPTION	UNIT	QTY	Make/ Model	Unit Rate	Total Amount
	PUBLIC ADDRESS SYSTEM WITH VOICE EVACUATION SYSTEM					
1	Supply, installation, testing and commissioning of audio amplifiers Conforming 480 watt RMS. (Bosch)	NOS	1			
2	Supplying, installing testing and commissioning approved make 6W wall mounted SPEAKER in stove enameled M.S. sheet steel housing etc., complete.	NOS	70			
3	Supplying, laying, testing and commissioning 40 strand twin core control CABLE of PVC insulated copper conductor.	RM	800			
4	Supply, Installation, testing and commissioning of 25mm PVC CONDUIT.	RM	800			
5	Audio controller for special cabin area only	NOS	10			

6	7 Zone controller with all call controller & table top gooseneck mic. (Standard)	NOS	1			
7	16U wall mounted Rack assembly made of aluminum channels side and rear panels made of 16 SWG powder coated steel sheet Front transparent perplez door Bearing with rails, and rollers, 2 fans at the top for ventilation.	NOS	1			
8	DVD Player.	NOS	1			

F :- CC TV WORK

SL NO	DESCRIPTION	UNIT	QTY	Make/ Model	Unit Rate	Total Amount
	CCTV					
1	Supply and Installation of 1 Megapixel HD dome camera.	Nos	20			
2	Supply and Installation of 2 Megapixel HD dome camera.	Nos	12			
3	Supply and Installation of DVR with 32 channel camera & audio	Nos	1			
4	4 TB hard disk capacity expandable upto 12 TB	Nos	1			
5	Power supply for 32 nos. camara.	Nos	1			
6	24 inch LED Monitor.	Nos	1			
7	Supply and laying of Cat-6 data cables in PVC conduit.	Mtr	1000			
8	System commissioning charges with connector etc.	Nos	1			

G :- ACCESS

SL	DESCRIPTION	UNIT	QTY	Make/	Unit	Total
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NO				Model	Rate	Amount
	ACCESS CONTROL					
1	Supply and laying of 6C x 0.75 sq.mm tinned copper conductor, inner sheathed and shielded signal cables in PVC conduit.	Mtr	150			
2	Supply and laying of 2C x 1.0 sq.mm tinned copper conductor, inner sheathed and shielded signal cables in PVC conduit.	Mtr	150			
3	Supply and laying of Cat-6 data cables in PVC conduit.	Mtr	350			
4	BioMetric with RFID reader Time Attendance & access control System controller at entry point	Nos	2			
5	BioMetric with RFID reader Time Attendance System at exit point	Nos	2			
6	Time Attendance Software with MS-Access database	Nos	1			
7	4 Door 8 Reader Access Control Panel with onboard TCP/IP (master)	Nos	1			
8	Card reader based door controller	Nos	8			
9	ProxCard II Proximity Access Card Non Programmed	Nos	120			
10	CARD PRINTING (One Side) With Card Holder	Nos	120			
11	600lbs electromagnetic lock unmonitored type 12V LED Lamp Only	Nos	5			
12	Power Supply Unit – Power through UPS	Nos	5			
13	System commissioning charges.	Nos	1			

H :- FIRE WORK

SL NO	DESCRIPTION	UNIT	QTY	Make/ Model	Unit Rate	Total Amount
	ANALOGUE ADDRESSABLE FIRE DETECTION AND ALARM SYSTEM					
1	2 LOOP Analogue intelligent Addressable Fire Alarm Control Panel for addressable devices per loop like SMOKE DETECTOR, HEAT DETECTOR, MULTI DETECTOR, MCP, flasher cum hooter, control modules, response indicators etc. and shall field Programmable and with multiple characters LCD display as per the detailed specification complete with battery backup of 24 hours operation and in 5 minuite alarm operation with battery charger and annunciator window etc. System shall have provision to integrate with your existing.	Nos	1			
2	Addressable Photo electric smoke detectors with required accessories along with Junction box & Glands & Terminations.	Nos	90			
3	Addressable Rate of rise thermal detectors with required accessories along with Junction box & Glands & Terminations.	Nos	5			
4	Addressable Multisensor smoke detectors with required accessories along with Junction box & Glands & Terminations.	Nos	55			
5	Addressable Manual call points, ABS plastic, square 4 "x 4" , with Break glass message embedded on the glass, enclosed along with the break glass in junction box & Terminations.	Nos	9			
6	Addressable strobe light cum sounder. The strobe light cum sounder shall be made of ABS plastic and have the Db level of 110dbs and a multi tone facility.	Nos	10			

7	Response indicator with required accessories.	Nos	55			
8	SITC of Addressable Fault isolator modules with required accessories including JB & glands	Nos	7			
9	Addressable monitor modules.	Nos	8			
10	SITC of Addressable Control modules for activate hooter cum strobe or trip / activate off any device which are related with fire and required accessories including JB & glands	Nos	2			
11	Auto glow exit light.	Nos	10			
12	Auto dialer.	Nos	1			
13	2C x 1.5 sq. mm, CU, PVC insulated FRLS Armored Cable with Accessories confirming to IS standards and specifications. (use for loop line and for 24 v dc line)	Mtr	1500			
14	System commissioning charges.	LOT	1			
	FIRE EXTINGUISHER					
1	CO2 Type Fire Extinguisher 4.5 Kg Capacity ISI Mark IS:15683 fitted with wheel type ISI mark wheel type valve and all other necessary fittings, Fire Rating : 21 B.	Nos	5			
2	Foam CO2 Type (Cartridge Type) Fire Extinguisher 9 Ltr. Capacity ISI Mark IS:15683 Fire Rating .	Nos	1			
3	ABC POWDER 5KG ISI Mark IS:15683	Nos	15			

I : - AC WORK

SL NO	DESCRIPTION	UNIT	QTY	Make/Model	Unit Rate	Total Amount
	Supply of Imported Air-cooled Top Discharge Full Inverter VRF SYSTEM Unit with R410a Refrigerant, Air-cooled Condenser along with inbuilt microprocessor panel.					
1	OUTDOOR UNIT					
	34 HP	Nos.	2			
	44 HP	Nos.	1			
2	VRF Indoor Units :-					
	High Wall Mounted Split units.					
a	0.8 TR	Nos.	3			
b	1 TR	Nos.	15			
c	1.28 TR	Nos.	3			
d	1.6 TR	Nos.	1			
e	2.03 TR	Nos.	1			

f	2.28 TR	Nos.	1			
	4 Way Cassette Units.					
a	1.28 TR	Nos.	1			
b	1.6 TR	Nos.	7			
c	2.03 TR	Nos.	13			
d	2.57 TR	Nos.	12			
3	Refrigerant Joints for Indoor Units	Nos.	54			
B	Price for Supply Installation & Commissioning of Ancillary Items for VRF					
1	Installation & Commissioning of VRF Units , with outdoor mounting, pressure testing, nitrogen flushing etc.	Lot	3			
2	Refrigerant Gas (R - 410a) VRF	Kg	60			
3	V I Pads- VRF	Lot	10			

4	Installation of VRF Indoor Units	Nos	57			
5	Refrigerant Piping with insulation					
	Suction/ Liquid line with Nitrile rubber insulation					
	1 1/2" OD	Rmt	60			
	1 1/4" OD	Rmt	15			
	1 1/8" OD	Rmt	65			
	7/8 " OD	Rmt	65			
	3/4 " OD	Rmt	85			
	5/8" OD	Rmt	130			
	1/2" OD	Rmt	150			
	3/8" OD	Rmt	170			
	1/4" OD	Rmt	110			
6	Metallic Drain piping 32 mm with insulation All complete	Rmt	400			

7	Electricals/Cables					
	Control Cable 2C x 1.5 sqm. for VRF unit	Rmt	500			

J :- FURNITURES

Sl.No.	ITEM	QTY	Make/Model	Unit Rate	Total Amount
	OFFICERS CABIN-07 NOS.				
1	Main Desk with MAIN TOP- MDF + VENEER + PU Coating, Size :1800 W * 900 D * 750 H TOP THICKNESS — 65 mm, MODESTY- Size : 1640 X 600 X16 MM, MDF+ Veneer + PU Coating, MOBILE PEDESTAL- MDF + Veneer + PU Coating, Size :510W * 635H * 445D mm, [RU TOP- MDF + VENEER + PU Coating, Size :1200 W x 445 D x 660 H TOP THICKNESS — 25 mm (Godrej or Equivalent make)	7			
2	High Back Chair Seat & back made up of 1.2 cm thick hot pressed plywood upholstered with fabric & moulded polyurethane foam having density of 45 +/-2 kg/m3 & hardness 20 +/-2 with the back size 48 cm W x 74 cm H & seat size 50 cm W x 49.5cm H having fixed type armrest with top made of moulded polyurethane & mounted on fixed MS tubular arm rest support chrome plated, static vertical arm supported adjustment of +/- 1.5 cm. Front pivot synchro mechanism having 360 degree revolving type, single point control, front pivot with tilt fit resting on ground, tilt tension adjustment, 4 position locking with anti-shock feature & the seat back tilting ratio 1: 2 (11 degree seat tilt, 0tt 22 degree back tilt) with back rest pneumatic height adjustment of 10 cm & the legs is fabricated from CR steel, Chrome plated with black polypropylene hub cap and 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch - center dia. (75.0 cm with castors). (Godrej or Equivalent make)	7			

3	<p>Visitor Chair, SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm.(W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density = 45±2 kg/m³ and Hardness = 20±2, ARMRESTS: The armrest top is made of moulded polyurethane (PU) and mounted on to a fixed type M.S. tubular armrest support chrome plated. The arm support has static vertical adjustment of ±1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e., no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing (Godrej or Equivalent make)</p>	21			
4	<p>Sliding Door Unit - Sliding door unit frame type constructed for rigidity with top having sliding door plastic roller with ball bearing 02 adjustable shelves fitted with lock made of spray phosphated before painting overall dimension 1168 H X 450D X 900W with one shelves (Godrej or Equivalent make)</p>	7			
	<p>CABINS-13 NOS.</p>				
5	<p>Table- Pedestal Table of size 1500 x 750 x 740 ,Top & Side Panel made of top of 25 mm thick plain particle board clad with 0.6mm thick post formed Laminate and 1 mm Thick Backing Laminate Flat Edge duly sealed with 2 mm thick PVC beading Modesty panel of 18mm thick plain particle Board clad with 1.0 mm thick DL on both sides, Edge with 2 mm thick PVC beading, [RU of size 1050 x 520 x 705 & Three Drawers Pedestal (Godrej or Equivalent make)</p>	13			

6	<p>Mid Back - Chair Seat & back made up of 1.2 cm thick hot pressed plywood upholstered with fabric & moulded polyurethane foam having density of 45 +/- 2 kg/m³ & hardness 20 +/-2 with the back size 48 cm W x 66 cm H & seat size 50 cm W x 49.5cm H having fixed type armrest with top made of moulded polyurethane & mounted on fixed MS tubular arm rest support chrome plated, static vertical arm supported adjustment of +/- 1.5 cm. Front pivot synchro mechanism having 360 degree revolving type, single point control, front pivot with tilt fit resting on ground, tilt tension adjustment, 4 position locking with anti-shock feature & the seat back tilting ratio 1: 2 (11 degree seat tilt, 22 degree back tilt) with back rest pneumatic height adjustment of 10 cm & the legs is fabricated from CR steel, Chrome plated with black polypropylene hub cap and 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch - center dia. (75.0 cm with castors)</p> <p>(Godrej or Equivalent make)</p>	13			
7	<p>Visitor Chair - The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE -47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. The powder coated tubular frame is cantilever type & made of dia. 25.4mm x 2mm thick M.S. ER.W. Tube.</p> <p>(Godrej or Equivalent make)</p>	26			
8	<p>Sliding Door Unit - Sliding door unit frame type constructed for rigidity with top having sliding door plastic roller with ball bearing 02 adjustable shelves fitted with lock made of spray phosphated before painting overall dimension 1168 H X 450D X 900W with one shelves</p> <p>(Godrej or Equivalent make)</p>	13			

	DIRECTOR'S CABIN				
9	<p>Main Desk with ERU & Mobile Pedestal – Executive Table of size 2200 x 1190 x 750 made of 30 mm thick pre laminated board top , side panel of 44mm thick pre laminated board Modesty- 18mm PL Board, ERU with drawer of size 1380 x 480 x 700 having 25mm thick ply board & 18mm thick ply board, Mobile Pedestal of size 406 x 550 x 640 having 25mm thick ply top (Godrej or Equivalent make)</p>	1			
10	<p>Mid Back Chair with Head Rest - Moulds itself to your back, provides adequate back support, and makes the long hours of seating comfortable. The net also provides opportunity for sufficient air circulation and helps in preventing heat accumulation. Adjustable lumber support - Supports the back and suits the requirement of maximum number of people and makes the long hours of seating a pleasure Adjustable headrest - Supports the head properly to suit the requirement of maximum users and give a comfortable feeling from head to lumber, Aluminium metal 5 pronged pedestals – Metallic pedestal has high load bearing capacity and sleek looks enhancing the aesthetics of the chair. Multi position locking with anti-shock feature. - Allows for the user to sit with maximum comfort and ease for long hours. Height 118-149 cm, seat height 46-54.5 cm width-72.5cm, depth 72.5 cm (Godrej or Equivalent make)</p>	1			
11	<p>Visitor Chair - SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm.(W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density = 45±2 kg/m³ and Hardness = 20±2, ARMRESTS: The armrest top is made of moulded polyurethane (P.U) and mounted on to a fixed type M.S. tubular armrest support chrome plated The arm support has static vertical adjustment of</p>	3			

	±1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e., no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing (Godrej or Equivalent make)				
	MD CHAMBER				
12	Main Desk with ERU, Joining Table, Back Unit & Mobile Pedestal, Table & ERU & Top Post Formed made of 25 mm MFC (Melamine Faced Chipboard), plus 30 mm MDF (Medium Density" Fiberboard), 18mm MFC Modesty Panel, Legs- 25 mm MFC, plus 30 mm MDF right and left pad. Main Desk size 1800 x 900 x 750, ERU of size 1200 X 600 X 730 with drawers unit & one Mobile drawer unit of size 400 x 560 x560 for main desk, Joining desk of size 1200 X 1050 X 750, Back Unit Top made of 25 mm MFC (Melamine Faced Chipboard), Door & other panel -18 mm MFC. The Dimension of Back Unit is 1400 x 470 x 760 mm. (Godrej or Equivalent make)	1			
13	High Back Chair - Revolving Chair sharp & elegant design with reach leather finish ergonomically design with natural leather upholstery at all contact areas Knee tilt synchronous mechanism with four position locking & anti shock feature, height adjustable arm rest, Height-113.5cm, W-62cm, D-60cm, Seat Height- 42.5 cm (Godrej or Equivalent make)	1			
14	Visitor Chair - SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm. (W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density --, 45±2 kg/m ³ and Hardness = 20±2, ARMRESTS: The armrest top is made of	6			

	<p>moulded polyurethane (P.U) and mounted on to a fixed type M.S. tubular armrest support chrome plated. The arm support has static vertical adjustment of ± 1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e., no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing (Godrej or Equivalent make)</p>				
15	<p>Table - Size 3000W x 1200 D with laminate top with the vertical & horizontal wire management across length & height of the Table access flop mounted on table top for ease of use. All steel components have powder coated paint Anticorrosion treated components, oven baked powder coating process (Godrej or Equivalent make)</p>	1			
16	<p>Mid Back Chair with Head Rest - Moulds itself to your back, provides adequate back support, and makes the long hours of seating comfortable. The net also provides opportunity for sufficient air circulation and helps in preventing heat accumulation. Adjustable lumbar support - Supports the back and suits the requirement of maximum number of people and makes the long hours of seating a pleasure Adjustable headrest - Supports the head properly to suit the requirement of maximum users and give a comfortable feeling from head to lumbar, Aluminium metal 5 pronged pedestals – Metallic pedestal has high load bearing capacity and sleek looks enhancing the aesthetics of the chair. Multi position locking with anti-shock feature. Allows for the user to sit with maximum comfort and ease for long hours. Height 118-149 cm, seat height 46-54.5 cm width-72.5cm, depth 72.5 cm (Godrej or Equivalent make)</p>	1			
17	<p>Mid Back Chair - Moulds itself to your back, provides adequate back support, and makes the long hours of seating comfortable. The net also provides opportunity for sufficient air circulation and helps in preventing heat accumulation. Adjustable lumbar support - Supports the back and suits the requirement of maximum number of people and makes the long hours of seating a pleasure Adjustable headrest - Supports the head properly to suit the</p>	8			

	<p>requirement of maximum users and give a comfortable feeling from head to lumber, Aluminium metal 5 pronged pedestals – Metallic pedestal has high load bearing capacity and sleek looks enhancing the aesthetics of the chair. Multi position locking with anti-shock feature. Allows for the user to sit with maximum comfort and ease for long hours. Height 118-149 cm, seat height 46-54.5 cm width-72.5cm, depth 72.5 cm</p> <p>(Godrej or Equivalent make)</p>				
18	<p>Three Seater Sofa, of Frame: Pine wood with moisture content within 10%, Ply wood of IS 303 commercial plywood Upholstery: PVC in Black shade of 1 mm thickness and 525 GSM. Foam: Moulded foam of density 48 grams /cubic cm Pocket Spring: 49 nos. of thickness 2 mm Legs: PVC legs of 4 inches. Dimension of Three Seater -1900W x 900D x 860H mm</p> <p>(Godrej or Equivalent make)</p>	1			
19	<p>Single Seater Sofa, of Frame: Pine wood with moisture content within 10%, Ply wood of IS 303 commercial plywood Upholstery: PVC in Black shade of 1 mm thickness and 525 GSM. Foam: Moulded foam of density 48 grams /cubic cm Pocket Spring: 49 nos. of thickness 2 mm Legs: PVC legs of 4 inches. Dimension of Single Seater -840W x 910D x 860Hmm</p> <p>(Godrej or Equivalent make)</p>	1			
20	<p>Coffee Table Coffee Table made of 8mm tempered glass Top MDF understructure with PVC covering Pu paint strip on glass top with silver powder Glass top attached to the understructure via UV disc Load bearing capacity :30 Kg, Dimension -1000Wx 600Dx 450H</p> <p>(Godrej or Equivalent make)</p>	1			
21	<p>Corner Table made of 8mm tempered glass top MDF understructure with PVC covering Pu paint strip on glass top with silver powder Glass top attached to the understructure via UV disc Load bearing capacity : 20, Dimension -600Wx 600Dx 540H Kg</p> <p>(Godrej or Equivalent make)</p>	1			

	PA OF M.D.				
22	<p>Main Desk of size 1350 x 750 with ERU of size 1200 x 600 & 01 No. Mobile Pedestal Table made of 25mm thick PLB with PVC lipping Top of size 1350(W)x750(D)x750(H) & side panels & modesty panel made of 18mm thick PLB with PVC lipping. One free standing Mobile pedestal of size 390 x 435 x 529 having one box & one filling drawer made of 18mm thick PLB fronts & top. Side Unit of size 1200 x 600 with top made of 25mm thick PLB with PVC lipping & side panels & Modesty Panels made of 18mm thick PLB with PVC lipping</p> <p>(Godrej or Equivalent make)</p>	1			
23	<p>Mid Back Chair The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co- polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia. (76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon</p> <p>(Godrej or Equivalent)</p>	3			
24	<p>Visitor Chair The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support</p>	2			

	<p>for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. The powder coated tubular frame is cantilever type & made of dia. 25.4mm x 2mm thick M.S. ER.W. Tube.</p> <p>(Godrej or Equivalent make)</p>				
25	<p>Sliding Door Unit - Sliding door unit frame type constructed for rigidity with top having sliding door plastic roller with ball bearing 02 adjustable shelves fitted with lock made of spray phosphated before painting overall dimension 1168 H X 4500 X 900W with one shelves</p> <p>(Godrej or Equivalent make)</p>	1			
26	<p>Lounge Three Seater Chair - Made of metallic understructure with powder coated with individual flexi back with colorful upholstery, Glide screw at the bottom of level adjustment in case of uneven surface. Dimension 164.0cmL x 70.0cmD x 78.5cmH, Seat Height 43.5cm</p> <p>(Godrej or Equivalent make)</p>	1			
	WAITING				
27	<p>Three Seater Chair - The LH/RH side frame fitted to the two ends of the ST/BK mounting frame to form the leg assembly. Made of SS J4 Grade tube dia 4.44 cm. (1.75") x 14 BG. Thick. The ST/BK mounting frame assy. Holds the two side frames together. The mounting frames, 2 nos. to connect the side frames. The mounting frame made of MS ERW tube dia. 5.08cm (2") x 10BG thick black painted. The ST/BK mounted on 14 BG thick 2cm x 4 cm x 4 cm Recta tube which welded on the beam of ST/BK mounting frame. The ST/BK assembly consists of 12mm thick plywood insert with Polyurethane foam having density = 45 +/-2 Kg./cm³ and hardness of the P.U. foam = 18 to 22 Kg. The complete moulded ST/BK assembly covered with a replaceable fabric upholstery cover. SEAT/BACK SIZE : 54.5CM (w) X 46.7CM (d) X</p>	1			

	12.5CM (T) The sid frames are fitted with front and rear bottom shoes made of injection moulded polypropylene. The sofa upholstered with stain repellent 'Velvetine plus' fabric. Dimension- 1830 W x 783D x 750Hmm (Godrej or Equivalent make)				
28	Two Seater Chair - The LH/RH side frame fitted to the two ends of the ST/BK mounting frame to form the leg assembly. Made of SS J4 Grade tube dia 4.44 cm. (1.75") x 14 BG. Thick. The ST/BK mounting frame assy. Holds the two side frames together. The mounting frames, 2 nos. to connect the side frames. The mounting frame made of MS ERW tube dia. 5.08cm (2") x 10BG thick black painted. The ST/BK mounted on 14 BG thick 2cm x 4 cm x 4 cm Recta tube which welded on the beam of ST/BK mounting frame. The ST/BK assembly consists of 12mm thick plywood insert with Polyurethane foam having density = 45 +/-2 Kg./cm ³ and hardness of the P.U. foam = 18 to 22 Kg. The complete moulded ST/BK assembly covered with a replaceable fabric upholstery cover. SEAT/BACK SIZE : 54.5CM (w) X 46.7CM (d) X 12.5CM (T) The side frames are fitted with front and rear bottom shoes made of injection moulded polypropylene. The sofa upholstered with stain repellent 'Velvetine plus' fabric. Dimension- 1257 W x 775D x 745Hmmm (Godrej or Equivalent make)	5			
29	Corner Table - of size 600W x 600D x 450H made up of 8 mm tempered glass Top, 6 mm tempered bottom glass for storage option, Silver powder coated understructure, Glass glass attached to the understructure via UV disc (Godrej or Equivalent make)	2			
30	Reception Table double Arch with DL Top Modular elegant table of curvilinear decorative laminate top 18mm thick at 725mm H (Approx.) and 10 mm frosted glass at 1035mm H(Approx.) above the work surface. The understructure made of mild steel tube dia. 50.8mm. The front modesty panel below and above work surface made of 0.8mm mild steel perforated sheet. nova 3 drawers free standing pedestal of size 300W x 435Dx 646H(Approx.)	1			

	(Godrej or Equivalent make)				
31	<p>Mid Back Chair - The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. ELESOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia. (76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon</p> <p>(Godrej or Equivalent make)</p>	1			
32	<p>Main Desk of size 1350 x 750 with ERU of size 1200 x 600 & 01 No. Mobile Pedestal Table made of 25mm thick PLB with PVC lipping Top of size 1350(W)x750(D)x750(H) & side panels & modesty panel made of 18mm thick PLB with PVC lipping. One free standing Mobile pedestal of size 390 x 435 x 529 having one box & one filling drawer made of 18mm thick PLB fronts & top. Side Unit of size 1200 x 600 with top made of 25mm thick PLB with PVC lipping & side panels & Modesty Panels made of 18mm thick PLB with PVC lipping</p> <p>(Godrej or Equivalent make)</p>	1			
33	<p>Mid Back Chair - The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support</p>	1			

	<p>for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE -47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia. (76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon (Godrej or Equivalent make)</p>				
	CONFERENCE ROOM				
34	<p>Conference Table for 32 Persons - Top thickness 31.6 (18mm + 12mm + 0.6 mm DL(both sides + 0.4mm Membrane) Edge profile Waterfall Edge 10mm radius on top edge and 5mm at bottom. Legs- Made from 25mm PPB having a straight profile with half round edges and clad with 0.6mm thick Post Forming laminate. Overall thickness of leg is 26.2mm. Modesty Panel- Made from PLT (Prelaminated Twin) boards of 18mm thick. Skin PVC Membrane foil (0.4mm thick) clad on the substrate MDF using PU glue for better adhesion. This foil is pre -coated with layer of polyurethane for better scratch resistance. Single Seater 760 W x 600 D, Two Seater 1360 W x 600 D, Half Round (2 Seater)- R 713, Quarter Round (1 Seater)- R 713 (Godrej or Equivalent make)</p>	1			
35	<p>High Back Chair - Revolving Chair sharp & elegant design with reach leather finish ergonomically design with natural leather up upholstery at all contact areas Knee tilt synchronous mechanism with four position locking & anti shock feature, height adjustable arm rest, Height-113.5cm, W-62cm, D-</p>	2			

	60cm, Seat Height- 42.5 cm (Godrej or Equivalent make)				
36	Chair - Seat & back made up of 1.2 cm thick hot pressed plywood upholstered with fabric & moulded polyurethane foam having density of 45 +/- 2 kg/m ³ & hardness 20 +/-2 with the back size 48 cm W x 66 cm H & seat size 50 cm W x 49.5c having fixed type armrest with top made of moulded polyurethane & mounted on fixed MS tubular arm rest support chrome plated, static vertical arm supported adjustment of +/- 1.5 cm. Front pivot synchro mechanism having 360 degree revolving type, single point control, front pivot with tilt fit resting on ground, tilt tension adjustment, 4 position locking with anti-shock feature & the seat back tilting ratio 1: 2 (11 degree seat tilt, 22 degree back tilt) with back rest pneumatic height adjustment of 10 cm & the legs is fabricated from CR steel, Chrome plated with black polypropylene hub cap and 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch - center dia. (75.0 cm with castors). (Godrej or Equivalent make)	30			
37	Chair - SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm.(W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density = 45±2 kg/m ³ and Hardness = 20±2, ARMRESTS: The armrest top is made of moulded polyurethane (PU) an mounted on to a fixed type M.S. tubular armrest support chrome plated. The arm support has static vertical adjustment of ±1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e., no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing	39			

	(Godrej or Equivalent make)				
	OPTIMIZER STORAGE SYSTEM				
38	Optimizer Storage system with Drive D-2 Type Two Bay on 12' Rail length (Each Unit Depth 457mm, Height-1980mm) Drive Type storage system on rail (fixed and movable) bolted to undercarriage which rolls on to the channels and embedded to the ground. Cabinet made out of 0.8 mm thick CRCA Steel Sheet of IS: 513 Grade D consists of 1 main unit & then add On Units each Unit with 5 Loading Levels. Height from ground 2080mm (1980 body + 65mm undercarriage+35 Channels system). Cabinet with antirust treatment & powder coated paint oven baked 180 degree to 200 degree C load bearing 60 Kg. UDL per shelf. Movement of units by mechanically through PU Drive drive wheel and sprocket -chain Tensioner with centralized locking (Godrej or Equivalent make)	1			
39	Optimizer Storage system with Drive D-4 Type 4 bay on 15' Rail length (Each Unit Depth 457mm, Height-1980mm) Drive Type storage system on rail (fixed and movable) bolted to undercarriage which rolls on to the channels and embedded to the ground. Cabinet made out of 0.8 mm thick CRCA Steel Sheet of IS: 513 Grade D consists of 1 main unit & then add On Units each Unit with 5 Loading Levels. Height from ground 2080mm (1980 body + 65mm undercarriage+35 Channels system). Cabinet with antirust treatment & powder coated paint oven baked 180 degree to 200 degree C load bearing 60 Kg. UDL per shelf. Movement of units by mechanically through PU Drive drive wheel and sprocket -chain Tensioner with centralized locking (Godrej or Equivalent make)	1			
	STORE				
40	Steel MF System of size 6'x36"x18" with Six Shelves made of slotted angle Prime quality CRC sheet conforming to IS 513D/10748/5986. The pitches of	4			

	the slots at 19.05mm, Panels/Shelves: 6 Bend bending process of 905(L) x 448(D) of load capacity 80 Kgs. UDL Max. per shelf , All fasteners of electro perk arised as per IS : 3655 -1985 Painting: All Steel components of powder coated as per IS: 101/1964 (Godrej or Equivalent make)				
	WORKSTATION				
41	Open Plan Office System for 112 Persons with Partition height of 1200mm, Recta Work surface of size 1200 x 600, Penta Work surface of size 1500 x 1500. Each work surface with 01 No. 3 Drawers Pedestal, 01 No. KBPT & 01 No. CPU Trolley PANEL THICKNESS - 56 MM, HT. 1200 MM (APPROX), TILE CONFIGURATION FOR ALL PANELS: - ABOVE MAG FAB TILE & BELOW TILE, RACEWAY - FOR MOUNTING OF SWITCHES: 150MM METAL RACEWAY AT SKIRTING LEVEL FOR ALL PANELS, WORKSURFACE: IN PRELAMINATED PARTICLE BOARD AND PVC LIPPING; BOARD THICKNESS. - 25MM (Godrej or Equivalent make)	1			
42	Mid Back Chair - The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/- 2 kg/m ³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia.	12			

	(76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon (Godrej or Equivalent make)				
43	Chair - SEAT/BACK ASSEMBLY: The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort. SIZE: 41.0cm. (W) X 46.0cm. (H). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kgs. / M3 and Hardness = 20 +/-2 on Hampden machine at 25% compression. ARMRESTS- The armrest is made of black integral skin polyurethane with 50-70 Shore A hardness and reinforced with MS insert. The P.U. armrest is fixed to black powder coated armrest bracket made of 0.5cm thick. H.R. Steel. PEDESTAL ASSEMBLY: The pedestal is fabricated from 0.2cm thick CR steel, powder coated and fitted with an injection moulded black Polypropylene hub cap and 5 nos. twin wheel castors.(castor wheel dia. 5.0cm.)The pedestal is 55.0cm. Pitch -center dia. (65.0 cm with castors). (Godrej or Equivalent make)	100			

K- Conference Room

Display And Video - Switching System

Sr. No	Description	Make	UoM	Qty	Make/Model	Unit Rate	Total Amount
1	4.0K lm, WXGA projector	Panasonic / Equivalent	Piece	1			
2	Ceiling mount kit for projector	Online / Equivalent	Piece	1			
3	109" , 16:10 Aspect Ratio , Motorized Projection Screen	Milan / Equivalent	Piece	1			
4	65" Professional LED Display	Panasonic / Equivalent	Piece	1			
5	43"LED display	Panasonic / Equivalent	Piece	2			
6	Passive Face Plate with VGA + Audio and HDMI	Extron / Equivalent	Piece	1			
7	3 Input Switcher with DTP Out	Extron / Equivalent	Piece	1			
8	Under mount	Extron/ Equivalent	Piece	1			
9	Presentation switcher scaler	Extron / Equivalent	Piece	1			

10	HDMI to four Output DTP DA - 230 feet (70 m)	Extron / Equivalent	Piece	1			
11	HDMI Patch Cables , 6 Feet	Kramer / Equivalent	Piece	9			
12	VGA + Audio Patch Cables , 6 Feet	Kramer / Equivalent	Piece	2			
13	HDMI Tx	Extron / Equivalent	Piece	1			
14	HDMI Receiver	Extron / Equivalent	Piece	5			
Display And video- Switching System							
Video Conferencing System							
<u>Sr. No</u>	<u>Description</u>	<u>Make</u>	<u>UoM</u>	<u>Qty</u>	<u>Make/Model</u>	<u>Unit Rate</u>	<u>Total Amount</u>
15	Group 500 HD codec, EagleEyeIV-12x camera, mic array, univ.	Polycom / Equivalent	Piece	1			
16	Partner Advantage, One Year, Real Presence Group 500-720p:	Polycom / Equivalent	Service	1			
17	Group Series Multipoint License - 6-	Polycom / Equivalent	License	1			

	way on Group 500 or 8-way						
18	Group Series 1080p HD License-1080 encode/decode for people &	Polycom / Equivalent	License	1			
19	Camera wall mount	NT	Set	1			

Audio System

<u>Sr. No</u>	<u>Description</u>	<u>Make</u>	<u>UoM</u>	<u>Qty</u>	<u>Make/Model</u>	<u>Unit Rate</u>	<u>Total Amount</u>
20	Gooseneck Microphone	Beyerdynamic / Equivalent	Piece	1			
21	Shock Mount	Beyerdynamic / equivalent	Piece	1			
22	Wireless handheld microphone	Beyerdynamic / equivalent	Piece	2			
23	DSP	Extron / equivalent	Piece	1			
24	Wall Mount Speakers	Extron / equivalent	Pair	2			
25	Audio Power Amplifier	Extron / equivalent	Piece	1			
26	Cable, Connectors and AV Rack as Per actual	Belden,Kramer,Dlink and Valrack	Meter	1			

	Installation, Cabling, Termination and coordination with other , Programming Charges				
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L- Fittings of Water Purifier & Water Cooler							
Sr. No	Description	Make	UoM	Qty	Make/Model	Unit Rate	Total Amount
1.	Supply & Installation of water purifier having 500 litres capacity per day. All complete work.	(Livpro or Equivalent)	Each	01			
2.	Supply and installation of water cooler. The water cooler should have two or more taps. The water cooler should be connected with the above water purifier. All complete work.	(Voltas or Equivalent)	Each	01			

**LETTER OF ACCEPTANCE
CUM NOTICE TO PROCEED WITH THE WORK
(LETTERHEAD OF THE EMPLOYER)**

Dated: _____

To : _____ [Name and address of the Contractor]

Dear Sirs,

This is to notify you that your Bid dated _____ for execution of the _____ for the contract price of Rupees _____ [amount in words and figures], is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of Rs. _____ (equivalent to 5% of the contract price) within 15 days of the receipt of the letter. The Performance Security in the form of Bank guarantee or a Bank draft in favour of(Employer) shall be valid till the expiry of the period of maintenance i.e. upto _____. Failure to furnish the Performance Security will entail cancellation of the award of contract.

You are also requested to sign the agreement form and proceed with the work not later than _____ under the instructions of the Engineer, _____ and ensure its completion within the contract period.

With the issuance of this acceptance letter and your furnishing the Performance Security, contract for the above said work stands concluded.

Yours faithfully,

**Authorized Signature
Name and title of Signatory**

Draft Agreement form for Construction through Lump Sum Contract

ARTICLES OF AGREEMENT

1. This deed of agreement is made in the form of agreement on _____ day _____ month _____ 20 ____, between the _____ (Employer) or his authorized representative (hereinafter referred to as the first party) and _____ (Name of the Contractor), S/O _____ resident of _____ (hereinafter referred to as the second party), to
2. execute the work of construction of _____ (hereinafter referred to as works) on the following terms and conditions.

2. Cost of the Contract

The total cost of the works (hereinafter referred to as the “total cost”) is Rs. _____ as reflected in Annexure - 1.

3.1 Payments under its contract:

Payments to the second party for the construction work will be released by the first party in the following manner:-

On signing of agreement	:	An Advance of 10% of the contract price on receipt of unconditional bank guarantee in the format attached [@]
Interim Payments will be made after completion of 1/4 th of the work after certification of work by Technical cum Supervision Consultant	:	Final payment will be made after handing over of the ready site by the 1 st party and receipt of all warranty/guarantee papers, applicable receipts & Keys etc. by the 2 nd party.

- 3.2 The advance shall be repaid/adjusted with percentage deductions from the interim payments, commencing with the next Interim Payment at the rate of 25 percent of the amounts of all Interim Payment Certificates until the advance has been repaid, always provided that the advance shall be completely repaid prior to the expiry of the original time for completion.

[@]The Guarantee shall remain effective until the advance payment has been repaid

- 3.3 The Employer shall retain (Retention Money) 6% of the amount from each payment due to the Contractor subject to the maximum of 5% of final contract price. Half of the amount retained shall be repaid upon completion of the works, and other half shall be repaid when

the Defects Liability Period has passed and the Project Manager has certified that all Defects notified to the Contractor before the end of this period have been corrected. On completion of the whole works the Contractor may substitute the balance retention money with an “on demand” Bank guarantee.

3.3 Payments at each stage will be made by the first party:

- (a) on the second party submitting an invoice for an equivalent amount ;
- (b) on certification of the invoice (except for the advance) by the engineer nominated by the first party with respect to quality of works in the format in Annexure – 2.

4. Notice by Contractor to Engineer

The second party, on the works reaching each stage of construction, issue a notice to the first party or the Engineer nominated by the first party [who is responsible for supervising the contractor, administering the contract, certifying payments due to the contractor, issuing and valuing variations to the contract, awarding extension of time etc.) to visit the site for certification of stage completion. Within 15 days of the receipt of such notice, the first party or the engineer nominated by it, will ensure issue of stage completion certificate after due verification.

5. Completion time

The works should be completed in three months from the date of this Agreement. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both the parties.

6. If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period:

- a) The first party does not give access to the site or a part thereof by the agreed period.
- b) The first party orders a delay or does not issue completed drawings, specifications or instructions for execution of the work on time.
- c) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.
- d) Payments due to the second party are delayed without reason.
- e) Certification for stage completion of the work is delayed unreasonably.

7. Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ 0.5 percent per week subject to a maximum of 5% of the contract value which will be

deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 5 % of the contract amount.

8. Duties and responsibilities of the first party

- 8.1** The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party, for checking quality of material and construction to ensure that it is as per the norms.
- 8.2** The first party shall supply drawings, specifications and guidelines to the second party for the proposed works.
- 8.3** Possession of the site will be handed over to the second party within 10 days of signing of the agreement.
- 8.4** The Engineer or such other person as may be authorized by the first party shall hold meeting once in a month where the second party or his representative at site will submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.
- 8.5** The Engineer shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the Engineer's notice, the first party as well as the engineer nominated by it, may instruct stoppage or suspension of the construction. It shall thereupon be open to the first party or the engineer to have the deviations rectified at the cost of the second party.

9. Duties and responsibilities of the second party

- 9.1** The second party shall:
 - a) take up the works and arrange for its completion within the time period stipulated in clause 5;
 - b) employ suitable skilled persons to carry out the works ;
 - c) regularly supervise and monitor the progress of work ;
 - d) abide by the technical suggestions / direction of supervisory personnel including engineers etc. regarding building construction ;

- e) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification;
- f) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation;
- g) keep the first party informed about the progress of work;
- h) correct the notified defects within the length of time specified by the Project Manager;
- i) be responsible for all security and watch and ward arrangements at site till handing over of the building to the first party;
- j) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims from the start date to the end of defect liability period;
- k) pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law);
- l) abide by all labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority;
- m) abide by all enactments on environmental protection and rules made there under, regulations, notifications and by-laws of the Sate or Central Government, or local authorities;
- n) be responsible for the safety of all activities on the Site.

10. Variations / Extra Items

The works shall be executed by the second party in accordance with the approved drawings and specifications. No variation in cost is acceptable. However, if the Engineer issues instructions for execution of extra items, the following procedure shall be followed:-

- a) The second party shall provide the Engineer with a bid for carrying out the extra items when requested to do so by the Engineer. The Engineer shall assess the bid, which shall be given within seven days of the request before the extra items are ordered.
- b) If the bid given by the second party is unreasonable, the Engineer may order the extra items and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the extra items on the Contractor's costs.
- c) The second party shall not be entitled to additional payment for costs, which could have been avoided by giving early warning.

11. Securities

The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee.

12. Termination

12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.

12.2 Fundamental breaches of Contract include, but shall not be limited to the following:

(a) the contractor stops work for 28 days and the stoppage has not been authorized by the Engineer;

(b) the Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

(c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;

(d) the Contractor does not maintain a security which is required;

(e) the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract; and

(f) the contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid

12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

13. Payment upon Termination

- 13.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.
- 13.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

14. Dispute settlement

If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Chief Engineer / Superintending Engineer, (not connected in part or whole with this Project in his service) to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996 at Patna, Bihar. English will be the official language for arbitration. The decision of the Arbitrator shall be final and binding on both the parties.

15. Corrupt and Fraudulent Practices

The World Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section C. In further pursuance of this policy, Bidders shall permit and shall cause its agents (whether declared or not), sub-contractors, sub-consultants, service providers, or suppliers and any personnel thereof, to permit the Bank to inspect all accounts, records and other documents relating to any prequalification process, bid submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

BILL OF QUANTITIES

The approximate Bill of Quantities is indicated below to give an idea of the work which should be executed in accordance with the approved drawings and specifications to enable the bidder to furnish the lump sum price. Bidders may, however, note that no variations in the lump sum cost is acceptable (except where extra items are ordered by the Engineer).

SR. No.	SOR 2016	SPECIFICATION	UNIT	QTY
A .		CIVIL		
1	15.8	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50m (stacks of cleaned bricks shall be measured):		
	15.8.3	From brick work in cement mortar	Cum	13
2	15.2	Demolishing cement concrete including disposal of material within 50 metre lead:		
	15.2.1	1:3:6 or leaner mix		4
3	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm.	250
4	15.12	<u>Demolition of existing doors/ windows/Rolling Shutter & removal of debris</u>		
	15.12.1	<u>Of area 3 sqm and below</u>	Sqm.	16
5	N.S.	<u>Demolition of existing sanitary/plumbing fixtures & removal of debris</u>	L.S.	1
6 a)	N.S.	<u>Chase cutting at floor</u>	Rmt	156
b)	N.S.	<u>Chase cutting at wall</u>	Rmt	301
7	N.S.	Providing Pest control and Anti-termite treatment by appointing a specialized agency as per the specifications mentioned by the Bureau of Indian Standards and Agencies specifications (whichever is higher) for general civil, plumbing / drainage and timber / carpentry works, gypsum related work, including a 5-year guarantee under suitable undertaking on stamp paper etc, complete as directed. (Mode of measurement to be on carpet-area of floor and not the area of surface treated) With chlopyriphons EC 20 % with 1 % concentration.	Sqm.	1,300.00

8	6.1.14A +6.3A	Extra for brick work in superstructure above plinth level upto floor V (cement mortar 1:6 (1 cement :6 coarse sand)	Cum	6.80
9	6.18.4A +6.19A	Extra for Half brick masonry in superstructure above plinth level upto floor V level (cement mortar 1:4)	Sqm.	54
10	13.11.2	Cement plaster in course sand 12mm cement plaster of mix : (12:4 (1ciment :4: sand)	Sqm.	200
11	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15, landings, balconiec, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).	Cum	2
12	5.22	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.		
	5.22.7A	Thermo-Mechanically treated bars TMTC - 500- 8 mm dia	kg	350.00
13	5.9	Centring and shuttering including strutting, propping etc. and removal of form for:		
	5.9 .5	<u>Lintels, beams,</u> plinth beams, girders, bressumers and cantilevers.	Sqm	19.00
B.		FLOORING & CLADDING		
14	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level.		
	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	Cum	11.00
15	11.4	<u>IPS Flooring</u> 52 mm thick cement concrete flooring with metallic concrete hardener topping under layer 40 mm thick cement concrete 1:2:4(1cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick metallic concrete hardener consisting of mix 1:2 (1 cement hardener mix:2 stone aggregate 6 mm nominal size) by volume @ 2 liter per 50 kg of cement or as per manufacture specification. This includes cost of cement slurry, etc. but excluding the cost of nosing of steps etc. complete.	Sqm.	160.00

16	11.46 .2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colors & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.	Sqm.	986
17	11.38	Providing and laying Ceramic glazed floor tiles 300 x 300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in colors such shades except white, Ivory, Grey, Fume Red, Brown, laid on 20 mm thick Cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	Sqm.	73
18	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colors and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).	Sqm.	44
19	N.S.	Providing and laying of floor carpet tile 500mm x 500mm of nylon yarn, 7-8mm thick of approved make and shade pasted on smooth dust-free surface with adhesive as per manufacturer's specification. Rate includes the plastic cover till final handover of site.	Sqm.	120.00
20	N.S.	Wooden Skirting Providing and fixing skirting of prelaminated with (one side decorative other side balancing lamination) fiat pressed, 3 layer and graded particle board (medium density) (Grade 1, type2) conforming to IS: 12823. With necessary fixing arrangements and screws including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete (18 mm thick	RM	26
21	N.S.	False Flooring (Supply and fixing of 600mm x 600mm false floor cementitious concrete infill false flooring system (ESRGS) & inclusive of a top finish of high pressure anti-static laminate of factory finish covered with anti-static PVC edge beading. Should be an ISO certified product. The system should be able to withstand a minimum point load of 300 Kg per sq.cm & the pedestal assembly should be able to withstand a uniformly distributed load of 800 Kg per sq.m. Top plate & Bottom plate of 0.7mm steel width. Pedestal pipe should be yellow zinc plated 450mm high.)	Sqm.	10.00

22	8.2.	Granite Flooring/window sill:- (Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias and similar locations of required size of approved shade, color and texture laid over 20 mm thick base cement mortar 1:4 (1 cement :4 coarse sand) with joints treated with white cement, mixed with matching pigment-epoxy touch ups. including rubbing, curing etc. complete at all lbevels.)	Sqm.	
a)	8.2.2.2	Granite of any color and shade (Area of slab over 0.50 sqm)	sqm	90.00
b)	8.2.2.2	Granite Cladding:- Granite of any color and shade (Area of slab over 0.50 sqm.)	Sqm.	60.00
23	8.3	Providing edge moulding to 18 mm thick marble stone counters, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
	8.3.2	Granite work	M	160
24	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-chage in skirting, risers of steps and dados over 12mm thick bed of Cement Mortar 1:3 (1 Cement:3 Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	190.00
25	N.S.	Pre-Laminated Wooden Flooring :- Supply & installation of pre-laminated plank flooring, 8 mm. thick over 2 mm. thick underlay foam completed with all accessories as approved by Architect. Base Rate to be taken f.3 or AC-3 grade material.	Sqm.	46
	C.	FALSE CEILING		

26	12.45	<p>Plain Gypsum False Ceiling :-Providing and fixing gypsum false ceiling of India Gypsum make which includes G.I. perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall / partition with the help of nylon sleeves and screws at 610mm centres. Then suspending G.I. intermediate channels of size 45mm (0.9mm thick with two flanges of 15mm each) from the soffit at 1220mm centres with ceiling angle of width 25mm X 10mm X0.55mm thick fixed to soffit with G.I. cleat and steel expansion fasteners. Ceiling section of 0.55mm thick having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clips and in direction perpendicular to the intermediate channel at 457mm centres. 12.5mm tapered edge gypboard (conforming to IS 2095-1982) is then screw fixed to ceiling section with 25mm dry wall Philips screws at 230mm centres. Screw fixing is done mechanically with drilling machine with suitable attachment. Finally tapered edges of the gypboards are to be jointed and finished so as to have a flush look which includes filling and finishing with jointing compound, joint paper tape and two coats of dry wall top coat suitable for gypboard (as per recommended practice of BPB India gypsum) etc. complete as per the recommended practices of India Gypsum. Rate to be included all kinds of profiles and cut-outs required for light fixtures, speakers, smoke detectors, trap doors and AC grill in the ceiling. All steel sections to be marked with "GYPSTEEL" which is a registered</p>		
	12.45.4	Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer in charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60	Sqm.	500

27	12.52	<p>Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm., both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross “T” of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main “T” at 600 mm center to center to form a grid of 1200x600 mm and secondary cross “T” of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main “T” runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p>		
	12.52.1	<p>GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.</p>	Sqm	900.00
28	12.58	<p>Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross “T” of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main “T” at 600 mm center to center to form a grid of 1200x600 mm and secondary cross “T” of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24 x24 x 0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services</p>		

		like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.		
	12.58.1	8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm, of size 595x595mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non-woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick Rockwool of 48 kg /cum backing.	sqm	200
29	N.S.	Rafter Ceiling :- Supply & installation of Wooden rafter ceiling with 12mm BWR grade Plywood with Textured Laminate finish of approved make of section 150x150mm @200mm c/c of approved design with necessary ss hanging support arrangement above ceiling . All complete as per direction of EIC/Architect. Rate will be calculated on the effective ceiling area.	Sqm..	12.00
	4	PARTITION & PANELLING		
30 (a)	N.S.	Full Height Gypsum Partition :- Providing and fixing 100mm thick gypsum partition which includes two layers of tapered edge 12.5mm thick gypboard (conforming to IS 2095-1982 & 2542-1981) screw fixed with 25mm dry wall screw for first layer and 35mm for second layer at 300mm centres to either side of 48mm studs (0.55mm thick having one flange of 34mm and another flange of 36mm made of GI steel) placed at 610mm centre to centre in 50mm floor and ceiling channel (0.55mm thick having equal flanges of 32mm made of GI steel) with joints staggered on each layer to avoid through joints. Finally square and tapered edges of the boards are to be jointed and finished so as to have a flush look which includes filling and finishing with jointing compound, joint paper tape and two coats of drywall top coat suitable for gypboard (as per recommended practice of India Gypsum or equivalent) . Rate shall be inclusive USG make gypsum edge guard on edges of the partition and finished as per manufacturer's specifications. Necessary cut- outs shall be provided for taking of supply and return air ducts / openings which shall	Sqm.	382

		be neatly finished with PU sealant of HILTI make after fixing of ducts thereby leaving no gaps. The partition should be finished so as to take on wall paper / paint directly by applying suitable base coats etc. all complete. Measurement shall		
(b)	N.S.	<u>Above ceiling gypsum</u>	Sqm.	67
31	N.S.	Rock Wool Insulation :-Providing and filling rock wool insulation of density 24 kg per cum wrapped in RP tissues, thickness of glass wool 50mm, and to be continued right up to the slab level, as per manufacturer's specifications etc. complete. Measurement shall be running length multiplied by height upto true ceiling.	Sqm.	382
32	N.S.	Full Glazed Partition :- Supply and installation of Full height Glass Partition with 12 mm. thick Toughened Glass resting over Al channel of approved make all complete as per direction of the Architect & EIC.	Sqm.	160
33	N.S.	Wall Panelling : - Designing, supplying, fabricating and erecting of panelling on walls made with approved plywood frame, placing @ 600 c/c both horizontal and vertical fixed with rawal plug on the walls, or any space that needs panelling work in level and plumb with edge finishes as per drawing and direction of E.I.C. Providing and fixing of approved quality and shade 1mm thick laminate with approved adhesive on 12/19mm thick BWR commercial Ply fixed over primary surface as per drawing and direction of E.I.C.	Sqm.	201
34	N.S.	Column Capital & Panelling :- Designing, supplying, fabricating and erecting of panelling on columns made with approved plywood frame, placing @ 600 c/c both horizontal and vertical fixed with rawal plug on the walls, or any space that needs panelling work in level and plumb with edge finishes as per drawing and direction of E.I.C. Providing and fixing of approved quality and shade 1mm thick laminate with approved adhesive on 12 thick BWR commercial Ply fixed over primary surface as per drawing and direction of E.I.C.	Sqm.	320.00
35	9.73A	Pelmets : - Providing and fixing 18 mm thick. 150mm wide pelmet of flat pressed 3 layer and graded particle board (medium density grade I,con forming to IS 3087) including top cover of 6 mm commercial ply wood, nickel plated M.S.pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets including fixing with 25 x3 mm M.S.Hat 10cm ling and rawl plugs 50mm long (designation 10 no.)etc. all complete Details of cost for a pelmet 2m long	Rmt	160.00

	5	WALL PREPARATION & FINISHES		
36	13.80 A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.		2464
37	DSR 13.83.2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved and and manufacture, including applying additional coats wherever required to achieve even shade and color. Two coats	Sqm.	2464
38	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an even shade :	Sqm.	150
39	N.S.	Wall Paper: - Providing and fixing of wall paper with surface preparation. Wall paper to be 100% washable.	Sqm.	224
		BUILT-IN JOINERIES		
40	9.1	Providing Wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position.		
	9.1.1	second class teakwood	Cum	2.00
41	9.20	Flush Door :- Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters..		
	9.20.1	35 mm thick including stainless steel butt hinges with necessary screws sqm.	Smt	62
42	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	sqm	88
		<u>Glass Door/window</u>		
43	N.S.	Providing and Fixing Sensor operated 12 mm thick Toughened glass door shutter of approved brand and manufacture, Door handle, lock and stopper etc. All complete as per direction of Engineer-in-charge.	Each	3

44	9.100.1	Providing and fixing aluminum handles anodized (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required color or shade with necessary screws etc. complete.		
	9.100.1	125 mm	Each	20.00
	9.100.2	100 mm	Each	20.00
45	9.96	Providing and fixing aluminum sliding door bolts anodized (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required color or shade with nuts and screws etc. complete:		
	9.96.2	250 x 16 mm	Each	30.00
46	9.97	Providing and fixing aluminum tower bolts anodized (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required color or shade with necessary screws etc. complete.		
	9.97.4	150 x 10 mm	Each	20.00
	9.97.5	100x10 mm	Each	10.00
47	9.98	Providing and fixing aluminum pull bolt lock anodized (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required color or shade with necessary screws etc. complete.	Each	15.00
48	9.88	Providing and fixing bright finished brass 100 mm mortice latch and lock with six levers and a pair of anodized(anodic coating not less than grade AC 10 as per IS: 1868) aluminum lever with necessary screws etc. Completed Best make of approved Quality).	Each	14.00
49	9.101	Providing and fixing aluminum hanging floor door stopper anodized (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required color and shade with necessary screws etc. complete.		
	9.101.2	Twin rubber stopper	Each	14.00
50	21.4.2	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete asper the direction of	Each	30.00

		Engineer-in-charge. minimum 1.25 mm Thickness Floor Spring		
51	N.S.	Janitor Closet: - Providing and fixing of janitor closet, depth 450mm with 19mm thick commercial plywood finished in laminate of approved shade. Shelves shall be of removal type and all internal surfaces shall be finished with backing laminate, complete as approved by EIC.	Sqm.	15.00
52	N.S.	Display Cabinet : - Providing and fixing of Display Cabinet, depth 450mm with 19mm thick commercial plywood finished in laminate of approved shade with openable glass (10mm toughened) and all internal surfaces shall be finished with backing laminate, complete as approved by EIC.	Sqm.	25.00
53	N.S.	Pantry Counter : -Providing and fixing 600mm wide pantry counter with top in approved sample pre-polished granite slab 18mm thick laid on 25mm thick one side polished cuddapah in cement mortar 1:4 in between, supported on 19mm thick both sides polished cuddapah verticals as directed. Providing 100mm high front facia and band above the counter in same shade granite. All exposed surfaces of platform to be finished in same granite slab. Necessary cut-outs for sink to be provided and all cut-outs, exposed edges to be bull Nosed with mirror polish. Cost to also include making necessary cut-outs for taking Pipes through counter top. Cost to also include of providing 100mm high raised platform in brickbat coba, with polished granite tile skirting as per specifications. All vertical surfaces of wall / partition below counter top to be finished in 200 x 200mm second grade approved make white colour ceramic tiles. Cost to also include making necessary cut-outs for taking drainage pipes and Nahni traps in raised platform, all completed and finished to satisfactory conditions. Cost to be inclusive of shutters of 19mm thick commercial grade plywood finished in approved shade laminate on exposed surface and balancing laminate on internal surfaces inclusive of necessary teak wood beading and frame work finished in colour polish to match the shade of the laminate or as directed. Cost to be inclusive of horizontal shelves in 19mm thick commercial grade plywood finished in approved shade laminate. Hardware to include dead locks with SS finish keyhole, brush SS finish handle, SS tower	Rmt.	3.00

54	N.S.	Laminated A-V Cabinet: - Fabricating and fixing of AV cabinet formed of 19mm ply formwork/carcass with adjustable shelves of laminated 19mm BWR ply. Shutters of cabinet to be formed of 19mm thick ply finished with laminate of approved shade with approved SS handles as per details. Rear backing of cabinet to be formed with 12mm thick ply with laminate finish. Top to be made of 19mm BWR ply finished with laminate of approved shade as per details. All internal surface to be finished in backing laminate.	Sqm.	4.00
55	N.S.	Over Head Storage : -Providing and fixing overhead storage of depth 400mm and size as per drawings, with top, sides and bottom in 19mm thick commercial grade plywood, back in 8mm thick commercial grade plywood, intermediate in 19mm thick commercial grade plywood, shutter in 19mm thick commercial grade block board. All external surfaces to be finished in approved laminate, with balancing laminate on the interior surface. All exposed edges to be finished in PVC edge banding. Rate to include hardware such as approved locks, auto-closing hinges for shutters, approved handles, door stop, tower bolt, etc. complete.	Sqm.	12.00
56	N.S.	Reception Back-drop: - Providing and fabricating reception backdrop, as per approved design and size made of 12/19mm thick commercial plywood finished on all exposed surfaces with 1mm thick designer laminate of approved shade. Surface to house the LOGO in SS matt finish of grade SS 304, all complete as directed by the Architect.	Nos.	1.00
57	N.S.	Full Height Storage (2700mm height) :- Providing and fixing of Full height storage of 2700mm high, depth 450mm with 19mm thick commercial plywood finished in laminate of approved shade. Shelves shall be of removal type and all internal surfaces shall be finished with backing laminate, complete as approved by EIC.	sqm	110
	9	MISCELLANEOUS ITEMS		
58	N.S.	Frosted Glass Film : - Providing and fixing of frosted sparkle film on glazed partition and door as per approved design by the Architect	Sqm.	247
59	N.S.	Vertical Blinds: - Providing and fixing of vertical blinds of approved shade by the Architect, all complete with channel, chord, string, clutch and accessories as required.	Sqm.	25.00

60	N.S.	Roller Blinds: - Providing and fixing of roller blinds of approved shade by the Architect, all complete with roller, chord, string, clutch and accessories as required. Openness factor of fabric not to exceed 5%.	Sqm.	187
61		Carriage of materials including transportations , loading, unloading, stacking etc. all complete		
		i) sand (45 km lead)	Cum	27
		iii stone chips (11.5 km lead)	Cum	2
		iii) Bricks (1 km Kachha +7km pacca)	1000 Nos.	5600
		Extra		
		i) Cement	bag	113
		ii) Bricks	1000 Nos.	5600

B) :- PHE WORK

S.N.	S.O.R 2016	DESCRIPTION	UNIT	QTY
I- B. WATER SUPPLY				
1	18.50.1	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.	Each	12.00
2	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	Each	12.00
3	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make confirming to IS:8931		
		15 mm nominal bore	Each	36.00
4	18.21	Providing and fixing PVC connection pipe with brass unions		
	18.21.2	45 cm length		
	18.21.2.1	15 mm nominal bore	Each	36.00
5	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore		
	18.53.1	15mm nominal bore	Each	36.00

6		Supplying fitting and fixing the following items complete with all materials as per specifications and direction of E/I		
a	17.33	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodized aluminum angle frame with C.P brass brackets and guard rail complete fixed with 40mm long screws, rawl plugs etc., complete	Each	12.00
b	17.31	Providing and fixing 600 x 450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	12.00
c	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and color.		
	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	12.00
d	M.R.	Providing and fixing C.P.Matt Chrome finish Toilet Paper Holder, Jaquar make Cat. No.ACN- 1153N, inclusive of taxes royalty all complete as per specification and direction of Engineer-in-charge.	Each	8.00
E.	M.R.	Providing and fixing Towel ring Jaquar make Cat. No.ACN1121N inclusive of taxes royalty all complete as per specification and direction of Engineer-in-charge.	Each	7.00
F.	M.R.	Providing and fixing Soap Dish , Jaquar make ACN.1135 N , inclusive of taxes royalty all complete as per specification and direction of Engineer-in-charge.	Each	7.00
7	18.1	Providing and fixing G.I pipes complete with G.I fittings and clamps, including and making good the wall etc. (internal work)		
		Exposed on wall		
	18.10.2	20 mm dia nominal bore	Metre	42.00
	18.10.3	25 mm dia nominal bore	Metre	94.00
8	18.11	Providing and fixing G.I. concealed pipe including painting with anti-corrosive bitumastic paint, cutting chases and making good the wall		
	18.11.1	15 mm dia nominal bore	Metre	102.00
	18.11.2	20 mm dia nominal bore	Metre	84.00

9	18.38.	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :		
	18.38.2	20 mm dia nominal bore	Metre	42.00
	18.38.3	25 mm dia nominal bore	Metre	94.00
10	18.17	Providing and fixing gun metal gate valve with C.I wheel of approved quality (screwed end)		
	18.17.2	32mm nominal bore	Each	7.00
	18.17.3	40 mm nominal bore	Each	3.00
11	17.28	Providing and fixing P.V.C waste pipe for sink or wash basin including P.V.C waste fittings complete.		
	17.28.1	semi rigid pipe		
	17.28.1.1	32mm dia	Each	25.00
II- SANITARY INSTALLATION				
12	17.1	Providing and fixing water closet squatting pan (Indian type W.C pan) with 100 mm P or S -trap 10 litre low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.		
	17.1.1	White Vitreous china Orissa patterns W.C pan of size 580 mm x 440 mm with integral type foot rest.	Each	8.00
13	M.R.	Providing and fixing white color vitreous china wall mounted European type water closet Parryware VERVE C0295 mounting Constellation with seat cover and accessories, Pipe work Concealed behind wall & Cast iron Chair Bracket and Rag Bolts flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets , cutting and making good the walls and floors wherever required: (Hindware /Shera / Parryware & equivalent make)		
		W.C. pan with ISI marked white solid plastic seat	Each	4.00
14	M.R.	Providing and fixing white colored counter Top Wash Basin PARRYWARE C848H all complete inclusive of taxes and royalty as per specification and direction of Engineer-in-charge. (Hindware /Shera / Parryware & equivalent make)	Each	12.00

15	M.R.	Providing and fixing white color vitreous china URINAL with flush fittings Parryware make Whiz C0580 & C8123 including painting of fittings and brackets , cutting and making good the walls and floors wherever required: (Hindware /Shera / Parryware & equivalent make)	Each	12.00
16	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :		
	17.10.1.3	510x1040 mm bowl depth 200 mm	Each	1.00
17	12.78.2	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 110 mm gap for thermal expansion, (i) Single socketed pipes.	Metre	237.00
18	12.79	Providing and fixing on wall face unplasticised -PVC moulded fittings/accessories for unplasticised -Riging PVC pipes conforming to IS:4985 including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion.		
A	12.79.3.2	Single tee with door		
		110 x 110x 110 mm	Each	10.00
b	12.79.4	single tee without door		
	12.79.4.2	110 x 110x 110 mm	Each	24.00
C	12.79.5.2	Bend		
	12.79.5.2	110 mm bend	Each	72.00
D	12.80	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50 x 50 x 50mm hard wood plugs, screwed with M.s screws of required length including cutting brick work and fixing in cement mortar 1;4 (1 cement: 4 coarse sand) and making good the wall etc. complete.110 mm	Each	60.00
19	17.60	Providing and fixing trap of self-cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors.		
	17.60.1	100 mm inlet and 100 mm outlet	Each	20.00
		III - SEWERAGE		

20	19.6	Providing and laying non-pressure NP ₂ class (light duty) R.C.C pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc. complete.		
	19.6.2	150 mm dia R.C.C pipe	Metre	60.00
21	2.10.1.2	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.		
		All kinds of soil.		
		Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	Metre	60.00
22 (a)	19.7	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) R.C.C top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarsesand:4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design:		
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I cover with frame (light duty) 455 x 610mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame of 15 kg)		
	19.7.1.1	With F.P.S bricks	Each	8.00
(b)	19.7.2	Inside size 120 x 90cm deep including C.I cover with frame (medium duty) 500mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg.)		
	19.7.2.1	With F.P.S Bricks	Each	5.00
23	19.4	Providing and fixing square-mouth S.W gully trap grade 'A' complete with C.I grating brick masonry chamber with water tight C.I cover with frame of 300 x 300mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design.		

	19.4.3	180 x 150mm size P type		
	19.4.3.1	With F.P.S Bricks class designation 75	Each	1.00

Item No.	Ref	Description	Unit	Quantity
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C : ELECTRICAL WORKS

Item No.	Ref	Description	Unit	Quantity
3.1.01	1.3.3 BSR 2016	Group C	Point	485.00
3.1.02	1.4.BSR	: Wiring for twin control light point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, 2 way modular switch, modular plate, suitable G.I. box etc. as required.	Point	2.00
3.1.03	1.5 BSR	: Wiring for light / power plug with 2 x 4 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit alongwith 1 no. 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Meter	1500.00
3.1.04	1.7. BSR			
(a)	1.7.1	2 x 1.5 sq.mm. + 1 x 1.5 sq. mm earth wire	Meter	650.00
(b)	1.7.2	2 x 2.5 sq.mm. + 1 x 2.5 sq. mm earth wire	Meter	1650.00
(c)	1.7.4	2 x 6 sq.mm. + 1 x 6 sq. mm earth wire	Meter	140.00
	1.7.1.1	4 x 6 sq.mm. + 1 x 6sq. mm earth wire	Meter	150.00
(d)	1.7.12	4 x 10 sq.mm. + 1 x 10 sq. mm earth wire	Meter	160.00
(e)	1.7.13	4 x 16 sq.mm. + 1x 16 sq. mm earth wire	Meter	160.00
(f)	1.7.14B SR	4 x 25 sq.mm. + 1 x 16 sq. mm earth wire	Meter	15.00

3.1.05	1.16. BSR	2 Pair	Metre	550.00
		4Pair	Metre	500.00
		10 Pair	Metre	450.00
	MR	: Supplying , fixing, fitting and connection of 50 pair telephone D.P. BOX, all complete as required	Each	3.00
	MR	: Supplying , fixing, fitting and connection of 200 pair telephone D.P. BOX, all complete as required	Each	1.00
3.1.06	1.17 BSR	: Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid core copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel / PVC conduit as required.	Metre	70.00
3.1.07	1.21. BSR			
		20mm	Metre	445.00
		25 mm	Metre	350.00
3.1.0	1.24 BSR			
(a)	1.24.1	6/10A switch	Each	60.00
(b)	1.24.4	5 pin 5/6 A socket outlet	Each	60.00
(c)	1.24.6	Telephone socket outlet	Each	150.00
(d)	1.24.5	6pin 16/20 A socket outlet	Each	0.00
(e)	1.24.3	16/20A switch	Each	0.00
(f)	1.24.7	TV antena socket outlet	Each	2.00

		1.27. BSR		
		1.27.1	1 or 2 Module (78 mm x 78 mmx45mm)	Each 152.00
		1.27.2	3 Module (100 mm x 78 mmx45mm)	Each 18.00
		1.27.3	4 Module (140mm x 78 mmx50mm)	Each 18.00
		1.27.4	6 Module (205 mm x 78mmx50mm)	Each 20.00
		1.27.5	8 Module (230mmx78 mm x 60mm)	Each 20.00
		1.27.6	12Module (135 mm x205mmx 60 mm)	Each 16.00
3.1.09				
3.1.11	1.26 BSR		: Supplying and fixing blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each 100.00
3.1.12	1.31 BSR		: Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 5 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required.(For light plugs to be used in nonresidential buildings.)	Each 25.00
3.1.13	1.32 BSR		: Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 20/16 amps modular socket outlet and 20/16 amps modular switch, connection, painting etc. as required.	Each 60.00
3.1.14	1.19 BSR		:Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 'C' series, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each 55.00
3.1.15	1.33 BSR		: Supplying and fixing 2 pin, 5 amp. Ceiling rose on the existing junction box / wooden block including connection etc. as required.	Each 25.00
3.1.16	1.25 BSR		: Supplying and fixing stepped type electronic fan regulator on existing modular plate switch box including connection etc. as required.	Each 1.00
3.1.17	1.34 BSR		: Supplying and fixing batten / angle holder including connection etc. as required.	Each 18.00

3.2.01	5.11.4	Supplying and fixing recess mounted 12W LED vertical down lighter luminaire complete with all accessories and replaceable electronic driver, directoy on false ceiling including connection with 1.5 sq.mm.FR PVC INSULATED copper conductor cable and earthing the body as required.	Each	180.00
3.2.02	5.11.3	Supplying and fixing recess mounted 6/7 W LED vertical down lighter luminaire complete with all accessories and replaceable electronic driver, directoy on false ceiling including connection with 1.5 sq.mm.FR PVC INSULATED copper conductor cable and earthing the body as required.	Each	12.00
3.2.05	5.10.3.	Supplying and fixing indoor recess mounted 36 W LED flat panel luminaire suitable for armstrong /grid ceiling ,complete with electronic driver etc. directory on false ceiling including connection with 1.5 sq.mm.FR PVC INSULATED copper conductor cable and earthing the body as required.	Each	96.00
3.2.06	BSR 1.37	Providing and fixing Ding Dong Bell for surface Mounting all-inclusive as per specification and direction of E/I.	Each	10.00
3.2.07	8.11.7	Supply and installation of 400 mm 230 v AC wall /cabin fan including fixing the bracket , making connection, testing , commissioning etc. as required.	Each	120.00
3.2.08	8.11.4	Supply and installation of 300 mm 230 v AC exhaust fan in the existing opening including making good the damage , connection , testing, commissioning etc. as required.	Each	12.00
	5.9.2	Providing and fixing following powder coated batten for 28 watt T5 fluorescent tube, complete with all accessories directly on ceiling/wall including connection with 1.5 sq.mm FR pvc insulated copper conductor cable etc. all complete as required.	Each	32.00
3.2.09	5.3.1	Providing and fixing following mounting rail /box type fluorescent fitting of all type complete with all accessories, 1x4' -40w fluorescent lamp, etc. directly on ceiling/wall including connection with 1.5 sq.mm FR pvc insulated copper conductor cable etc. All complete as required.	Each	12.00
3.2.10	6.1.7	Providing and fixing following types of lamp in the existing electrical fitting/fixture, bracket holder etc. all complete as required.	Each	12.00

3.3.01	2.9.4 BSR	4 way (4 + 12), Double door, horizontal type	Each	9.00
		8 way Double door SPN DB	Each	3.00
		12 way Double door SPN DB	Each	6.00
		2.9.5	6 way (4 + 18), Double door, horizontal TPN DB.	Each
3.3.02	BSR 2.12.1	Single pole	Each	312.00
3.3.03	2.17.2.17. BSR 2.17.03 02 2.17.	40 amps	Each	3.00
		63 amps	Each	6.00
	2.12.7			
	2.12.6	40 amps	Each	9.00
	2.12.7	63 amps	Each	6.00
3.4.01	BSR 7.1.4,221 5+ C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armoured Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 400 sqm	Meter	95.00
3.4.01	BSR 7.1.4,221 4+ C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armoured Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 300 sqm	Meter	95.00

	BSR 7.1.2.,220 9+ C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armoured Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 95 sqm	Meter	125.00
3.4.01	BSR 7.1.2.,220 7+ C.P. @15%	Supplying and laying of XLPE /PVC insulated PVC sheathed (Heavy Duty) Armoured Electric Cables with aluminum conductor for working voltage 1100 volts to IS:7098 (Part-1) / IS:1554 (Part-1) as applicable, All complete as per building specification and direction of E/I. 3.5 core 50 sqm	Meter	75.00
3.4.02	BSR 2.7.9	Providing and fixing 4 pole ON-load/panel mounted Changeover Switch ,IN EXISTING PANEL BOARD ,400 Amp Rating, making connection and earthing the body etc. All complete as per specification and direction of E/I.	Each	1.00
3.4.03	8.10.4	Providing and fixing digital volt meter 3 phase in existing cubicle panel board including drilling holes in panel board, making connection etc. All complete as required.	Each	6.00
3.4.04	RA 4	Providing and fixing Indicator Lamp LED type all complete as per specification and direction of E/I.	Each	18.00
3.4.05	8.10.6	Providing and fixing digital ammeter 3 phase in existing cubicle panel board including drilling holes in panel board, making connection etc. All complete as required.	Meter	6.00
3.4.06	BSR 8.10.2.	Supplying and fixing wall / floor mounted cubicle panel board fabricated with 16 SWG MS sheet, suitable for panel mounted switch disconnecter, including busbar chamber, insulator and Painting etc .as required. (but without busbar copper strip)	sft.	90.00
3.4.7	BSR 2.3.9	Providing and fixing 400 A / 415 V cubical Switch Fuse unit inside the existing cubicle panel board with ISI marked HRC fuses including drilling holes in cubical panel ,making connection etc.as required.	Each	1.00
	BSR 2.4.2	S/F MCCB in cubicle panel board: Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.160 Amp, 35KA	Each	9.00

3.4.8	BSR 2.4.2	S/F MCCB in cubicle panel board: Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. 25/100 Amp, 16KA	Each	30.00
	BSR 2.5.6	Supplying and fixing 500 amps. TPN , copper busbar complete with all accessories as required	Each	1.00
3.4.9	BSR 2.5.3	Supplying and fixing 200 amps. TPN , copper busbar complete with all accessories as required	Each	6.00
3.4.13	BSR 3.13.	proving and laying earth connection from earth electrode with 4 mm dia copper wire in 15mm dia G.I. Pipe from earth electrode including connection with, copper thimble, excavation and refilling etc ., a as required.	Meter	50.00
3.4.14	BSR 3.6.	Earthing with copper earth plate 600 mm X 600mmX3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc . With charcoal /cock and salt as required. .	each	4.00
3.4.15	BSR 3.19	Supplying and fixing 4 mm dia copper wire on surface or, in recess for loop earthing along with existing surface/recessed conduit / submain wiring/cable as required.	Meter	80.00
ESTIMATE FOR UPS WIRING SYSTEM				
		SUBHEAD 2: UPS WIRING	Unit	quantity
	8.10.2+2. 4.3+2.5.3 +2.15.1+ 2.15.2+8. 10.4	Supplying installation , connection and testing of cubical type ups panel ,made of 16 gauge steel sheet ,dust and vermin proof ,powder coated paint ,compartlised ,lockable type PANEL (3'X2') ,comprising with following :- . 100A TPN MCCB - 1NO. OUT GOING 40ASPN 3 NOS., 63A SPN MCB 6 NOS. , 200A BUSBAR, -1 NO., volt meter, indicator lamp etc. all complete as required.	Each	1.00
	BSR 1.27.6+1. 24.1+1.2 4.3, +1.24.4.+ 1.24.5	: Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 2 NOS 3 pin 5/6 amps modular socket outlet and 2 NOS 5/6 amps modular switch, and 1 no. 16A sw. & socket for raw power ,connection, etc. as required. (For light plugs to be used in non-residential buildings.)	each	160.00

	1.7. BSR	: Wiring for circuit / submain wiring along with earthwire with the following sizes of PVC insulated copper conductor, single core cable in surface / recessed PVC conduit as required.		
	1.7.1	2 x 1.5 sq.mm. + 1 x 1.5 sq. mm earth wire	Meter	500.00
	1.7.2	2 x 2.5 sq.mm. + 1 x 2.5 sq. mm earth wire	Meter	1600.00
	1.7.4	2 x 6 sq.mm. + 1 x 6 sq. mm earth wire	Meter	400.00

SL NO	DESCRIPTION	UNIT	QTY
A	DATA & VOICE PASSIVE COMPONENTS		
1	Category 6 Cable 305 mtr Roll for data	RMT	13500
2	Category 6 I/O keystone type for data.	NOS	198
3	1 mtr Patch Cord category 6 for data	NOS	144
4	2 Mtr Patch cord category 6 for data	NOS	154
5	24 Port Patch Panel keystone type data	NOS	9
6	Single Face Plate	NOS	18
7	Duplex Face Plate	NOS	116
8	Quard face Plate	NOS	24
9	Category 6 I/O keystone type for voice	NOS	168
10	24 Port Patch Panel keystone type Voice Field side	NOS	7
11	24 Port Patch Panel keystone type Voice EPABX side	NOS	7
12	42U, 800 mm wide x 1000mm depth Server rack with the following specifications,	NOS	1
a	4 fans at top for ventilation.		
b	Front perforated door with lock & key, rear perforated split door with lock & key.		
c	Castor wheels.		
d	2 nos Power bar with 14 nos IEC C13 sockets.		
e	Lables for Patch Panel.		
f	ESD Port Kit & ESD Wrist Strap.		
13	1 Mtr Patch Cord category 6 for Voice	NOS	139

14	100 pair MDF with Module	NOS	2
B	DATA & VOICE ACTIVE COMPONENTS		
1	Wire Less Access Point (Indoor)	NOS	12
2	Power injector for wireless Access Point	NOS	12
3	Wall mount kit for wireless access	NOS	12
4	24-port switch (10/100/1000 MBPS ,Unmanaged)	NOS	7
5	2504 Wireless controller with 15 AP License	NOS	1
6	Wireless LAN controller with License	NOS	1
7	EPABX having active 166 analog ,4 digital extensions with PRI system	NOS	1
8	Telephone set		
a	Analogue set	NOS	RO
b	Digital set	NOS	RO

SL NO	DESCRIPTION	UNIT	QTY
E:- PUBLIC ADDRESS SYSTEM WITH VOICE EVACUATION SYSTEM			
1	Supply, installation, testing and commissioning of audio amplifiers Conforming 480 watt RMS. (Bosch)	NOS	1
2	Supplying, installing testing and commissioning approved make 6W wall mounted SPEAKER in stove enameled M.S. sheet steel housing etc., complete.	NOS	70
3	Supplying, laying, testing and commissioning 40 strand twin core control CABLE of PVC insulated copper conductor.	RM	800
4	Supply, Installation, testing and commissioning of 25mm PVC CONDUIT.	RM	800
5	Audio controller for special cabin area only	NOS	10
6	7 Zone controller with all call controller & table top gooseneck mic. (Standard)	NOS	1
7	16U wall mounted Rack assembly made of aluminum channels side and rear panels made of 16 SWG powder coated steel sheet Front transparent perplex door Bearing with rails, and rollers, 2 fans at the top for ventilation.	NOS	1

8	DVD Player.	NOS	1
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F :- CC TV WORK

SL NO	DESCRIPTION	UNIT	QTY
	CCTV		
1	Supply and Installation of 1 Megapixel HD dome camera.	Nos	20
2	Supply and Installation of 2 Megapixel HD dome camera.	Nos	12
3	Supply and Installation of DVR with 32 channel camera & audio	Nos	1
4	4 TB hard disk capacity expandable upto 12 TB	Nos	1
5	Power supply for 32 nos camara.	Nos	1
6	24 inch LED Monitor.	Nos	1
7	Supply and laying of Cat-6 data cables in PVC conduit.	Mtr	1000
8	System commissioning charges with connector etc..	Nos	1

SL NO	DESCRIPTION	UNIT	QTY

G - ACCESS CONTROL

1	Supply and laying of 6C x 0.75 sq.mm tinned copper conductor, inner sheathed and shielded signal cables in PVC conduit.	Mtr	150
2	Supply and laying of 2C x 1.0 sq.mm tinned copper conductor, inner sheathed and shielded signal cables in PVC conduit.	Mtr	150
3	Supply and laying of Cat-6 data cables in PVC conduit.	Mtr	350
4	BioMetric with RFID reader Time Attendance & access control System controller at entry point	Nos	2
5	BioMetric with RFID reader Time Attendance System at exit point	Nos	2
6	Time Attendance Software with MS-Access database	Nos	1
7	4 Door 8 Reader Access Control Panel with onboard TCP/IP (master)	Nos	1
8	Card reader based door controller	Nos	8

9	ProxCard II Proximity Access Card Non Programmed	Nos	120
10	CARD PRINTING (One Side) With Card Holder	Nos	120
11	600lbs electromagnetic lock unmonitored type 12V LED Lamp Only	Nos	5
12	Power Supply Unit – Power through UPS	Nos	5
13	System commissioning charges.	Nos	1

SL NO	DESCRIPTION	UNIT	QTY
H-FIRE SYSTEMS			
	ANALOGUE ADDRESSABLE FIRE DETECTION AND ALARM SYSTEM		
1	2 LOOP Analogue intelligent Addressable Fire Alarm Control Panel for addressable devices per loop like SMOKE DETECTOR, HEAT DETECTOR, MULTI DETECTOR, MCP, flasher cum hooter, control modules, response indicators etc. and shall field Programmable and with multiple characters LCD display as per the detailed specification complete with battery backup of 24 hours operation and in 5 minute alarm operation with battery charger and annunciator window etc. System shall have provision to integrate with your existing.	Nos	1
2	Addressable Photo electric smoke detectors with required accessories along with Junction box & Glands & Terminations.	Nos	90
3	Addressable Rate of rise thermal detectors with required accessories along with Junction box & Glands & Terminations.	Nos	5
4	Addressable Multisensor smoke detectors with required accessories along with Junction box & Glands & Terminations.	Nos	55
5	Addressable Manual call points, ABS plastic, square 4 "x 4" , with Break glass message embedded on the glass, enclosed along with the break glass in junction box & Terminations.	Nos	9
6	Addressable strobe light cum sounder. The strobe light cum sounder shall be made of ABS plastic and have the Db level of 110dbs and a multi tone facility.	Nos	10
7	Response indicator with required accessories.	Nos	55

8	SITC of Addressable Fault isolator modules with required accessories including JB & glands	Nos	7
9	Addressable monitor modules.	Nos	8
10	SITC of Addressable Control modules for activate hooter cum strobe or trip / activate off any device which are related with fire and required accessories including JB & glands	Nos	2
11	Auto glow exit light.	Nos	10
12	Auto dialer.	Nos	1
13	2C x 1.5 sq. mm, CU, PVC insulated FRLS Armored Cable with Accessories confirming to IS standards and specifications. (use for loop line and for 24 v dc line)	Mtr	1500
14	System commissioning charges.	LOT	1
	FIRE EXTINGUISHER		
1	CO2 Type Fire Extinguisher 4.5 Kg Capacity ISI Mark IS:15683 fitted with wheel type ISI mark wheel type valve and all other necessary fittings, Fire Rating : 21 B.	Nos	5
2	Foam CO2 Type (Cartridge Type) Fire Extinguisher 9 Ltr Capacity ISI Mark IS: 15683 Fire Rating.	Nos	1
3	ABC POWDER 5KG ISI Mark IS:15683	Nos	15

SL NO	DESCRIPTION	UNIT	QTY
I- AIR CONDITIONING			
	Supply of Imported Air-cooled Top Discharge Full Inverter VRF SYSTEM Unit with R410a Refrigerant, Air-cooled Condenser along with inbuilt microprocessor panel.		
1	OUTDOOR UNIT		
	34 HP	Nos.	2
	44 HP	Nos.	1
2	VRF Indoor Units :-		

	High Wall Mounted Split units.		
a	0.8 TR	Nos.	3
b	1 TR	Nos.	15
c	1.28 TR	Nos.	3
d	1.6 TR	Nos.	1
e	2.03 TR	Nos.	1
f	2.28 TR	Nos.	1
	4 Way Cassette Units.		
a	1.28 TR	Nos.	1
b	1.6 TR	Nos.	7
c	2.03 TR	Nos.	13
d	2.57 TR	Nos.	12
3	Refrigerant Joints for Indoor Units	Nos.	54
B	Price for Supply Installation & Commissioning of Ancillary Items for VRF		
1	Installation & Commissioning of VRF Units , with outdoor mounting, pressure testing, nitrogen flushing etc	Lot	3
2	Refrigerant Gas (R - 410a) VRF	Kg	60
3	V I Pads- VRF	Lot	10
4	Installation of VRF Indoor Units	Nos	57

5	Refrigerant Piping with insulation		
	Suction/ Liquid line with Nitrile rubber insulation		
	1 1/2" OD	Rmt	60
	1 1/4" OD	Rmt	15
	1 1/8" OD	Rmt	65
	7/8 " OD	Rmt	65
	3/4 " OD	Rmt	85
	5/8" OD	Rmt	130
	1/2" OD	Rmt	150
	3/8" OD	Rmt	170
	1/4" OD	Rmt	110
6	Metallic Drain piping 32 mm with insulation to avoid RAT BITE All complete	Rmt	400
7	Electricals/Cables		
	Control Cable 2C x 1.5 sqm for VRF unit	Rmt	500

J - FURNITURE

Sl.No.	ITEM	QTY
	OFFICERS CABIN-07 NOS.	
1	Main Desk with MAIN TOP- MDF + VENEER + PU Coating, Size :1800 W * 900 D * 750 H TOP THICKNESS — 65 mm, MODESTY- Size : 1640 X 600 X16 MM, MDF+ Veneer + PU Coating, MOBILE PEDESTAL- MDF + Veneer + PU Coating, Size :510W * 635H * 445D mm, [RU TOP- MDF + VENEER + PU Coating, Size :1200 W x 445 D x	7

	660 HTOP THICKNESS — 25 mm (Godrej or Equivalent make)	
2	High Back Chair Seat & back made up of 1.2 cm thick hot pressed plywood upholstered with fabric & moulded polyurethane foam having density of 45 +/-2 kg/m ³ & hardness 20 +/-2 with the back size 48 cm W x 74 cm H & seat size 50 cm W x 49.5cm H having fixed type armrest with top made of moulded polyurethane & mounted on fixed MS tubular arm rest support chrome plated, static vertical arm supported adjustment of +/- 1.5 cm. Front pivot synchro mechanism having 360 degree revolving type, single point control, front pivot with tilt fit resting on ground, tilt tension adjustment, 4 position locking with anti-shock feature & the seat back tilting ratio 1: 2 (11 degree seat tilt, 0 to 22 degree back tilt) with back rest pneumatic height adjustment of 10 cm & the legs is fabricated from CR steel, Chrome plated with black polypropylene hub cap and 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch - center dia. (75.0 cm with castors). (Godrej or Equivalent make)	7
3	Visitor Chair, SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm.(W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density = 45±2 kg/m ³ and Hardness = 20±2, ARMRESTS: The armrest top is made of moulded polyurethane (PU) and mounted on to a fixed type M.S. tubular armrest support chrome plated. The arm support has static vertical adjustment of ±1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing (Godrej or Equivalent make)	21
4	Sliding Door Unit - Sliding door unit frame type constructed for rigidity with top having sliding door plastic roller with ball bearing 02 adjustable shelves fitted with lock made of spray phosphated before painting overall dimension 1168 H X 450D X 900W with one shelves (Godrej or Equivalent make)	7
	CABINS-13 NOS.	
5	Table- Pedestal Table of size 1500 x 750 x 740 ,Top & Side Panel made of top of 25 mm thick plain particle board clad with 0.6mm thick post formed Laminate and 1 mm Thick Backing Laminate Flat Edge duly sealed with 2 mm thick PVC beading Modesty panel of 18mm thick plain particle Board clad with 1.0 mm thick DL on both sides, Edge with 2 mm thick PVC beading, [RU of size 1050 x 520 x 705 & Three Drawers Pedestal	13

	(Godrej or Equivalent make)	
6	<p>Mid Back - Chair Seat & back made up of 1.2 cm thick hot pressed plywood upholstered with fabric & moulded polyurethane foam having density of 45 +/-2 kg/m³ & hardness 20 +/-2 with the back size 48 cm W x 66 cm H & seat size 50 cm W x 49.5cm H having fixed type armrest with top made of moulded polyurethane & mounted on fixed MS tubular arm rest support chrome plated, static vertical arm supported adjustment of +/- 1.5 cm. Front pivot synchro mechanism having 360 degree revolving type, single point control, front pivot with tilt fit resting on ground, tilt tension adjustment, 4 position locking with anti-shock feature & the seat back tilting ratio 1: 2 (11 degree seat tilt, 22 degree back tilt) with back rest pneumatic height adjustment of 10 cm & the legs is fabricated from CR steel, Chrome plated with black polypropylene hub cap and 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch - center dia. (75.0 cm with castors)</p> <p>(Godrej or Equivalent make)</p>	13
7	<p>Visitor Chair - The seat and back are made up of 1.2 cm. thick hot -pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE -47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. The powder coated tubular frame is cantilever type & made of dia. 25.4mm x 2mm thick M.S. ER.W. Tube.</p> <p>(Godrej or Equivalent make)</p>	26
8	<p>Sliding Door Unit - Sliding door unit frame type constructed for rigidity with top having sliding door plastic roller with ball bearing 02 adjustable shelves fitted with lock made of spray phosphated before painting overall dimension 1168 H X 450D X 900W with one shelves</p> <p>(Godrej or Equivalent make)</p>	13
	DIRECTOR'S CABIN	
9	<p>Main Desk with ERU & Mobile Pedestal – Executive Table of size 2200 x 1190 x 750 made of 30 mm thick pre laminated board top , side panel of 44mm thick pre laminated board Modesty- 18mm PL Board, ERU with drawer of size 1380 x 480 x 700 having 25mm thick ply board & 18mm thick ply board, Mobile Pedestal of size 406 x 550 x 640 having 25mm thick ply top</p> <p>(Godrej or Equivalent make)</p>	1
10	<p>Mid Back Chair with Head Rest - Moulds itself to your back, provides adequate back support, and makes the long hours of seating comfortable. The net also provides opportunity for sufficient air circulation and helps in preventing heat accumulation. Adjustable lumbar support - Supports the back and suits the</p>	1

	<p>requirement of maximum number of people and makes the long hours of seating a pleasure Adjustable headrest - Supports the head properly to suit the requirement of maximum users and give a comfortable feeling from head to lumber, Aluminium metal 5 pronged pedestals – Metallic pedestal has high load bearing capacity and sleek looks enhancing the aesthetics of the chair. Multi position locking with anti-shock feature. - Allows for the user to sit with maximum comfort and ease for long hours. Height 118-149 cm, seat height 46-54.5 cm width-72.5cm, depth 72.5 cm</p> <p>(Godrej or Equivalent make)</p>	
11	<p>Visitor Chair - SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm.(W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density = 45±2 kg/m³ and Hardness = 20±2, ARMRESTS: The armrest top is made of moulded polyurethane (P.U) and mounted on to a fixed type M.S. tubular armrest support chrome plated The arm support has static vertical adjustment of ±1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e., no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing</p> <p>(Godrej or Equivalent make)</p>	3
	MD CHAMBER	
12	<p>Main Desk with ERU, Joining Table, Back Unit & Mobile Pedestal, Table & ERU & Top Post Formed made of 25 mm MFC (Melamine Faced Chipboard), plus 30 mm MDF (Medium Density" Fiberboard), 18mm MFC Modesty Panel, Legs- 25 mm MFC, plus 30 mm MDF right and left pad. Main Desk size 1800 x 900 x 750, ERU of size 1200 X 600 X 730 with drawers unit & one Mobile drawer unit of size 400 x 560 x560 for main desk, Joining desk of size 1200 X 1050 X 750, Back Unit Top made of 25 mm MFC (Melamine Faced Chipboard), Door & other panel -18 mm MFC. The Dimension of Back Unit is 1400 x 470 x 760 mm.</p> <p>(Godrej or Equivalent make)</p>	1
13	<p>High Back Chair - Revolving Chair sharp & elegant design with reach leather finish ergonomically design with natural leather upholstery at all contact areas Knee tilt synchronous mechanism with four position locking & anti shock feature, height adjustable arm rest, Height-113.5cm, W-62cm, D-60cm, Seat Height- 42.5 cm</p> <p>(Godrej or Equivalent make)</p>	1
14	<p>Visitor Chair - SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam</p>	6

	<p>is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm.(W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density --, 45±2 kg/m³ and Hardness = 20±2, ARMRESTS: The armrest top is made of moulded polyurethane (P.U) and mounted on to a fixed type M.S. tubular armrest support chrome plated. The arm support has static vertical adjustment of ±1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e., no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing (Godrej or Equivalent make)</p>	
15	<p>Table - Size 3000W x 1200 D with laminate top with the vertical & horizontal wire management across length & height of the Table access flop mounted on table top for ease of use. All steel components have powder coated paint Anticorrosion treated components, oven baked powder coating process (Godrej or Equivalent make)</p>	1
16	<p>Mid Back Chair with Head Rest - Moulds itself to your back, provides adequate back support, and makes the long hours of seating comfortable. The net also provides opportunity for sufficient air circulation and helps in preventing heat accumulation. Adjustable lumber support - Supports the back and suits the requirement of maximum number of people and makes the long hours of seating a pleasure Adjustable headrest - Supports the head properly to suit the requirement of maximum users and give a comfortable feeling from head to lumber, Aluminium metal 5 pronged pedestals – Metallic pedestal has high load bearing capacity and sleek looks enhancing the aesthetics of the chair. Multi position locking with anti-shock feature. Allows for the user to sit with maximum comfort and ease for long hours. Height 118-149 cm, seat height 46-54.5 cm width-72.5cm, depth 72.5 cm (Godrej or Equivalent make)</p>	1
17	<p>Mid Back Chair - Moulds itself to your back, provides adequate back support, and makes the long hours of seating comfortable. The net also provides opportunity for sufficient air circulation and helps in preventing heat accumulation. Adjustable lumber support - Supports the back and suits the requirement of maximum number of people and makes the long hours of seating a pleasure Adjustable headrest - Supports the head properly to suit the requirement of maximum users and give a comfortable feeling from head to lumber, Aluminium metal 5 pronged pedestals – Metallic pedestal has high load bearing capacity and sleek looks enhancing the aesthetics of the chair. Multi position locking with anti-shock feature. Allows for the user to sit with maximum comfort and ease for long hours. Height 118-149 cm, seat height 46-54.5 cm width-72.5cm, depth 72.5 cm (Godrej or Equivalent make)</p>	8
18	<p>Three Seater Sofa, of Frame: Pine wood with moisture content within 10%, Ply wood of IS 303 commercial plywood Upholstery: PVC in Black shade of 1 mm thickness and 525 GSM. Foam: Moulded foam of density 48 grams /cubic cm Pocket Spring: 49 nos. of thickness 2 mm Legs: PVC legs of 4 inches. Dimension of Three Seater -1900W x 900D x 860H mm</p>	1

	(Godrej or Equivalent make)	
19	Single Seater Sofa, of Frame: Pine wood with moisture content within 10%, Ply wood of IS 303 commercial plywood Upholstery: PVC in Black shade of 1 mm thickness and 525 GSM. Foam: Moulded foam of density 48 grams /cubic cm Pocket Spring: 49 nos. of thickness 2 mm Legs: PVC legs of 4 inches. Dimension of Single Seater -840W x 910D x 860Hmm (Godrej or Equivalent make)	1
20	Coffee Table Coffee Table made of 8mm tempered glass Top MDF understructure with PVC covering Pu paint strip on glass top with silver powder Glass top attached to the understructure via UV disc Load bearing capacity :30 Kg, Dimension - 1000Wx 600Dx 450H (Godrej or Equivalent make)	1
21	Corner Table made of 8mm tempered glass top MDF understructure with PVC covering Pu paint strip on glass top with silver powder Glass top attached to the understructure via UV disc Load bearing capacity : 20, Dimension -600Wx 600Dx 540H Kg (Godrej or Equivalent make)	1
	PA OF M.D.	
22	Main Desk of size 1350 x 750 with ERU of size 1200 x 600 & 01 No. Mobile Pedestal Table made of 25mm thick PLB with PVC lipping Top of size 1350(W)x750(D)x750(H) & side panels & modesty panel made of 18mm thick PLB with PVC lipping. One free standing Mobile pedestal of size 390 x 435 x 529 having one box & one filling drawer made of 18mm thick PLB fronts & top. Side Unit of size 1200 x 600 with top made of 25mm thick PLB with PVC lipping & side panels & Modesty Panels made of 18mm thick PLB with PVC lipping (Godrej or Equivalent make)	1
23	Mid Back Chair The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m ³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co- polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia. (76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon	3

	(Godrej or Equivalent)	
24	<p>Visitor Chair The seat and back are made up of 1.2 cm. thick hot -pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. The powder coated tubular frame is cantilever type & made of dia 25.4mm x 2mm thk M.S. ER.W. Tube.</p> <p>(Godrej or Equivalent make)</p>	2
25	<p>Sliding Door Unit - Sliding door unit frame type constructed for rigidity with top having sliding door plastic roller with ball bearing 02 adjustable shelves fitted with lock made of spray phosphated before painting overall dimension 1168 H X 4500 X 900W with one shelves</p> <p>(Godrej or Equivalent make)</p>	1
26	<p>Lounge Three Seater Chair - Made of metallic understructure with powder coated with individual flexi back with colorful upholstery, Glide screw at the bottom of level adjustment in case of uneven surface. Dimension 164.0cmL x 70.0cmD x 78.5cmH, Seat Height 43.5cm</p> <p>(Godrej or Equivalent make)</p>	1
	WAITING	
27	<p>Three Seater Chair - The LH/RH side frame fitted to the two ends of the ST/BK mounting frame to form the leg assembly. Made of SS J4 Grade tube dia 4.44 cm. (1.75") x 14 BG. Thick. The ST/BK mounting frame assy. Holds the two side frames together. The mounting frames, 2 nos. to connect the side frames. The mounting frame made of MS ERW tube dia. 5.08cm (2") x 10BG thick black painted. The ST/BK mounted on 14 BG thick 2cm x 4 cm x 4 cm Recta tube which welded on the beam of ST/BK mounting frame. The ST/BK assembly consists of 12mm thick plywood insert with Polyurethane foam having density = 45 +/-2 Kg./cm³ and hardness of the P.U. foam = 18 to 22 Kg. The complete moulded ST/BK assembly covered with a replaceable fabric upholstery cover. SEAT/BACK SIZE : 54.5CM (w) X 46.7CM (d) X 12.5CM (T) The sid frames are fitted with front and rear bottom shoes made of injection moulded polypropylene. The sofa upholstered with stain repellent 'Velvetine plus' fabric. Dimension- 1830 W x 783D x 750Hmm</p> <p>(Godrej or Equivalent make)</p>	1
28	<p>Two Seater Chair - The LH/RH side frame fitted to the two ends of the ST/BK mounting frame to form the leg assembly. Made of SS J4 Grade tube dia 4.44 cm. (1.75") x 14 BG. Thick. The ST/BK mounting frame assy. Holds the two side frames together. The mounting frames, 2 nos. to connect the side frames. The mounting frame made of MS ERW tube dia. 5.08cm (2") x 10BG thick black painted. The ST/BK mounted on 14 BG thick 2cm x 4 cm x 4 cm Recta tube</p>	5

	<p>which welded on the beam of ST/BK mounting frame. The ST/BK assembly consists of 12mm thick plywood insert with Polyurethane foam having density = 45 +/-2 Kg./cm³ and hardness of the P.U. foam = 18 to 22 Kg. The complete moulded ST/BK assembly covered with a replaceable fabric upholstery cover. SEAT/BACK SIZE : 54.5CM (w) X 46.7CM (d) X 12.5CM (T) The side frames are fitted with front and rear bottom shoes made of injection moulded polypropylene. The sofa upholstered with stain repellent 'Velvetine plus' fabric. Dimension- 1257 W x 775D x 745Hmmmm (Godrej or Equivalent make)</p>	
29	<p>Corner Table - of size 600W x 600D x 450H made up of 8 mm tempered glass Top, 6 mm tempered bottom glass for storage option, Silver powder coated understructure, Glass glass attached to the understructure via UV disc (Godrej or Equivalent make)</p>	2
30	<p>Reception Table double Arch with DL Top Modular elegant table of curvilinear decorative laminate top 18mm thick at 725mm H (Approx.) and 10 mm frosted glass at 1035mm H(Approx.) above the work surface. The understructure made of mild steel tube dia. 50.8mm. The front modesty panel below and above work surface made of 0.8mm mild steel perforated sheet. nova 3 drawers free standing pedestal of size 300W x 435Dx 646H(Approx.) (Godrej or Equivalent make)</p>	1
31	<p>Mid Back Chair - The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. ELESOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia. (76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon (Godrej or Equivalent make)</p>	1
32	<p>Main Desk of size 1350 x 750 with ERU of size 1200 x 600 & 01 No. Mobile Pedestal Table made of 25mm thick PLB with PVC lipping Top of size 1350(W)x750(D)x750(H) & side panels & modesty panel made of 18mm thick PLB with PVC lipping. One free standing Mobile pedestal of size 390 x 435 x 529 having one box & one filling drawer made of 18mm thick PLB fronts & top. Side Unit of size 1200 x 600 with top made of 25mm thick PLB with PVC lipping & side panels & Modesty Panels made of 18mm thick PLB with PVC lipping</p>	1

	(Godrej or Equivalent make)	
33	<p>Mid Back Chair - The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE -47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia. (76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon</p> <p>(Godrej or Equivalent make)</p>	1
	CONFERENCE ROOM	
34	<p>Conference Table for 32 Persons - Top thickness 31.6 (18mm + 12mm + 0.6 mm DL(both sides + 0.4mm Membrane) Edge profile Waterfall Edge 10mm radius on top edge and 5mm at bottom. Legs- Made from 25mm PPB having a straight profile with half round edges and clad with 0.6mm thick Post Forming laminate. Overall thickness of leg is 26.2mm. Modesty Panel- Made from PLT (Prelaminated Twin) boards of 18mm thick. Skin PVC Membrane foil (0.4mm thick) clad on the substrate MDF using PU glue for better adhesion. This foil is pre -coated with layer of polyurethane for better scratch resistance. Single Seater 760 W x 600 D, Two Seater 1360 W x 600 D, Half Round (2 Seater)- R 713, Quarter Round (1 Seater)- R 713</p> <p>(Godrej or Equivalent make)</p>	1
35	<p>High Back Chair - Revolving Chair sharp & elegant design with reach leather finish ergonomically design with natural leather up upholstery at all contact areas Knee tilt synchronous mechanism with four position locking & anti shock feature, height adjustable arm rest, Height-113.5cm, W-62cm, D-60cm, Seat Height- 42.5 cm</p> <p>(Godrej or Equivalent make)</p>	2
36	<p>Chair - Seat & back made up of 1.2 cm thick hot pressed plywood upholstered with fabric & moulded polyurethane foam having density of 45 +/-2 kg/m³ & hardness 20 +/-2 with the back size 48 cm W x 66 cm H & seat size 50 cm W x 49.5c having fixed type armrest with top made of moulded polyurethane & mounted on fixed MS tubular arm rest support chrome plated, static vertical arm supported adjustment of +/- 1.5 cm. Front pivot synchro mechanism having 360 degree revolving type, single point control, front pivot with tilt fit resting on ground, tilt tension adjustment, 4 position locking</p>	30

	with anti-shock feature & the seat back tilting ratio 1: 2 (11 degree seat tilt, 22 degree back tilt) with back rest pneumatic height adjustment of 10 cm & the legs is fabricated from CR steel, Chrome plated with black polypropylene hub cap and 5 nos. twin wheel castors (castor wheel dia. 5.0 cm). The pedestal is 65.0cm. Pitch - center dia. (75.0 cm with castors). (Godrej or Equivalent make)	
37	Chair - SEAT/BACK ASSEMBLY: The seat is made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane Foam. The back is made up 1.2 cm. thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture. MID BACK SIZE 48.0cm.(W) X 64.5cm.(H), SEAT SIZE 51.0cm.(W) X 48.0cm.(D). POLYURETHANE FOAM: The polyurethane foam for seat and back is moulded with density = 45±2 kg/m ³ and Hardness = 20±2, ARMRESTS: The armrest top is made of moulded polyurethane (PU) an mounted on to a fixed type M.S. tubular armrest support chrome plated. The arm support has static vertical adjustment of ±1.5cm. FIXED BACKREST: The backrest consists of a fixed type mechanism i.e., no back up/down adjustment, LEG FRAME ASSEMBLY: Leg frame welded assembly made from 35 X 15 X 16BG (1.6THK) Elliptical M.S ERW tube with base plate chrome plated for seat fixing (Godrej or Equivalent make)	39
	OPTIMIZER STORAGE SYSTEM	
38	Optimizer Storage system with Drive D-2 Type Two Bay on 12' Rail length (Each Unit Depth 457mm, Height-1980mm) Drive Type storage system on rail (fixed and movable) bolted to undercarriage which rolls on to the channels and embedded to the ground. Cabinet made out of 0.8 mm thick CRCA Steel Sheet of IS: 513 Grade D consists of 1 main unit & then add On Units each Unit with 5 Loading Levels. Height from ground 2080mm (1980 body + 65mm undercarriage+35 Channels system). Cabinet with antirust treatment & powder coated paint oven baked 180 degree to 200 degree C load bearing 60 Kg. UDL per shelf. Movement of units by mechanically through PU Drive drive wheel and sprocket -chain Tensioner with centralized locking (Godrej or Equivalent make)	1
39	Optimizer Storage system with Drive D-4 Type 4 bay on 15' Rail length (Each Unit Depth 457mm, Height-1980mm) Drive Type storage system on rail (fixed and movable) bolted to undercarriage which rolls on to the channels and embedded to the ground. Cabinet made out of 0.8 mm thick CRCA Steel Sheet of IS: 513 Grade D consists of 1 main unit & then add On Units each Unit with 5 Loading Levels. Height from ground 2080mm (1980 body + 65mm undercarriage+35 Channels system). Cabinet with antirust treatment & powder coated paint oven baked 180 degree to 200 degree C load bearing 60 Kg. UDL per shelf. Movement of units by mechanically through PU Drive drive wheel and sprocket -chain Tensioner with centralized locking (Godrej or Equivalent make)	1
	STORE	

40	<p>Steel MF System of size 6'x36"x18" with Six Shelves made of slotted angle Prime quality CRC sheet conforming to IS 513D/10748/5986. The pitches of the slots at 19.05mm, Panels/Shelves: 6 Bend bending process of 905(L) x 448(D) of load capacity 80 Kgs. UDL Max. per shelf , All fasteners of electro perk arised as per IS : 3655 -1985 Painting: All Steel components of powder coated as per IS: 101/1964</p> <p>(Godrej or Equivalent make)</p>	4
	WORKSTATION	
41	<p>Open Plan Office System for 112 Persons with Partition height of 1200mm, Recta Work surface of size 1200 x 600, Penta Work surface of size 1500 x 1500. Each work surface with 01 No. 3 Drawers Pedestal, 01 No. KBPT & 01 No. CPU Trolley PANEL THICKNESS - 56 MM, HT. 1200 MM(APPROX), TILE CONFIGURATION FOR ALL PANELS :- ABOVE MAG FAB TILE & BELOW TILE, RACEWAY - FOR MOUNTING OF SWITCHES: 150MM METAL RACEWAY AT SKIRTING LEVEL FOR ALL PANELS, WORKSURFACE: IN PRELAMINATED PARTICLE BOARD AND PVC LIPPING; BOARD THK. - 25MM</p> <p>(Godrej or Equivalent make)</p>	1
42	<p>Mid Back Chair - The seat and back are made up of 1.2 cm. thick hot - pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. 3) ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM. PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded in black 30% glass -filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch -center dia. (76.0 cm with castors.) TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon</p> <p>(Godrej or Equivalent make)</p>	12
43	<p>Chair - SEAT/BACK ASSEMBLY: The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort. SIZE: 41.0cm. (W) X 46.0cm. (H). POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/-2 kgs. / M3 and Hardness = 20 +/-2 on Hampden machine at 25% compression. ARMRESTS- The armrest is made of black integral skin polyurethane with 50-70 Shore A hardness and reinforced with MS insert. The P.U. armrest is fixed to black powder coated armrest bracket made of 0.5cm thick. H.R. Steel. PEDESTAL ASSEMBLY: The pedestal is fabricated</p>	100

from 0.2cm thick CR steel, powder coated and fitted with an injection moulded black Polypropylene hub cap and 5 nos. twin wheel castors.(castor wheel dia. 5.0cm.)The pedestal is 55.0cm. Pitch -center dia. (65.0 cm with castors). (Godrej & Equivalent make)

K - Audio Visual System for Conference Hall				
Sr. No	Description	Make	UoM	Qty
1	4.0K lm, WXGA projector	Panasonic / equivalent	Piece	1
2	Ceiling mount kit for projector	Online / equivalent	Piece	1
3	109" , 16:10 Aspect Ratio , Motorized Projection Screen	Milan / equivalent	Piece	1
4	65" Professional LED Display	Panasonic / equivalent	Piece	1
5	43"LED display	Panasonic / equivalent	Piece	2
6	Passive Face Plate with VGA + Audio and HDMI	Extron / equivalent	Piece	1
7	3 Input Switcher with DTP Out	Extron / equivalent	Piece	1
8	Under mount	Extron/ equivalent	Piece	1
9	Presentation switcher scaler	Extron / equivalent	Piece	1
10	HDMI to four Output DTP DA - 230 feet (70 m)	Extron / equivalent	Piece	1
11	HDMI Patch Cables , 6 Feet	Kramer / equivalent	Piece	9
12	VGA + Audio Patch Cables , 6 Feet	Kramer / equivalent	Piece	2
13	HDMI Tx	Extron / equivalent	Piece	1
14	HDMI Receiver	Extron / equivalent	Piece	5
Display And video- Switching System				
<u>Sr. No</u>	<u>Description</u>	<u>Make</u>	<u>UoM</u>	<u>Qty</u>

15	Group 500 HD codec, EagleEyeIV-12x camera, mic array, univ.	Polycom / equivalent	Piece	1
16	Partner Advantage, One Year, Real Presence Group 500-720p:	Polycom / equivalent	Service	1
17	Group Series Multipoint License - 6-way on Group 500 or 8-way	Polycom / equivalent	License	1
20	Group Series 1080p HD License-1080 encode/decode for people &	Polycom / equivalent	License	1
21	Camera wall mount	NT	Set	1

Audio System

<u>Sr. No</u>	<u>Description</u>	<u>Make</u>	<u>UoM</u>	<u>Qty</u>
22	Gooseneck Microphone	Beyerdynamic / equivalent	Piece	1
23	Shock Mount	Beyerdynamic / equivalent	Piece	1
24	Wireless handheld microphone	Beyerdynamic / equivalent	Piece	2
25	DSP	Extron / equivalent	Piece	1
26	Wall Mount Speakers	Extron / equivalent	Pair	2
27	Audio Power Amplifier	Extron / equivalent	Piece	1
28	Cable, Connectors and AV Rack as Per actual	Belden, Kramer, Dlink and Valrack	Meter	1
	Installation, Cabling, Termination and coordination with other, Programming Charges			

L- Fittings of Water Purifier & Water Cooler

Sr. No	Description	Make	UoM	Qty.
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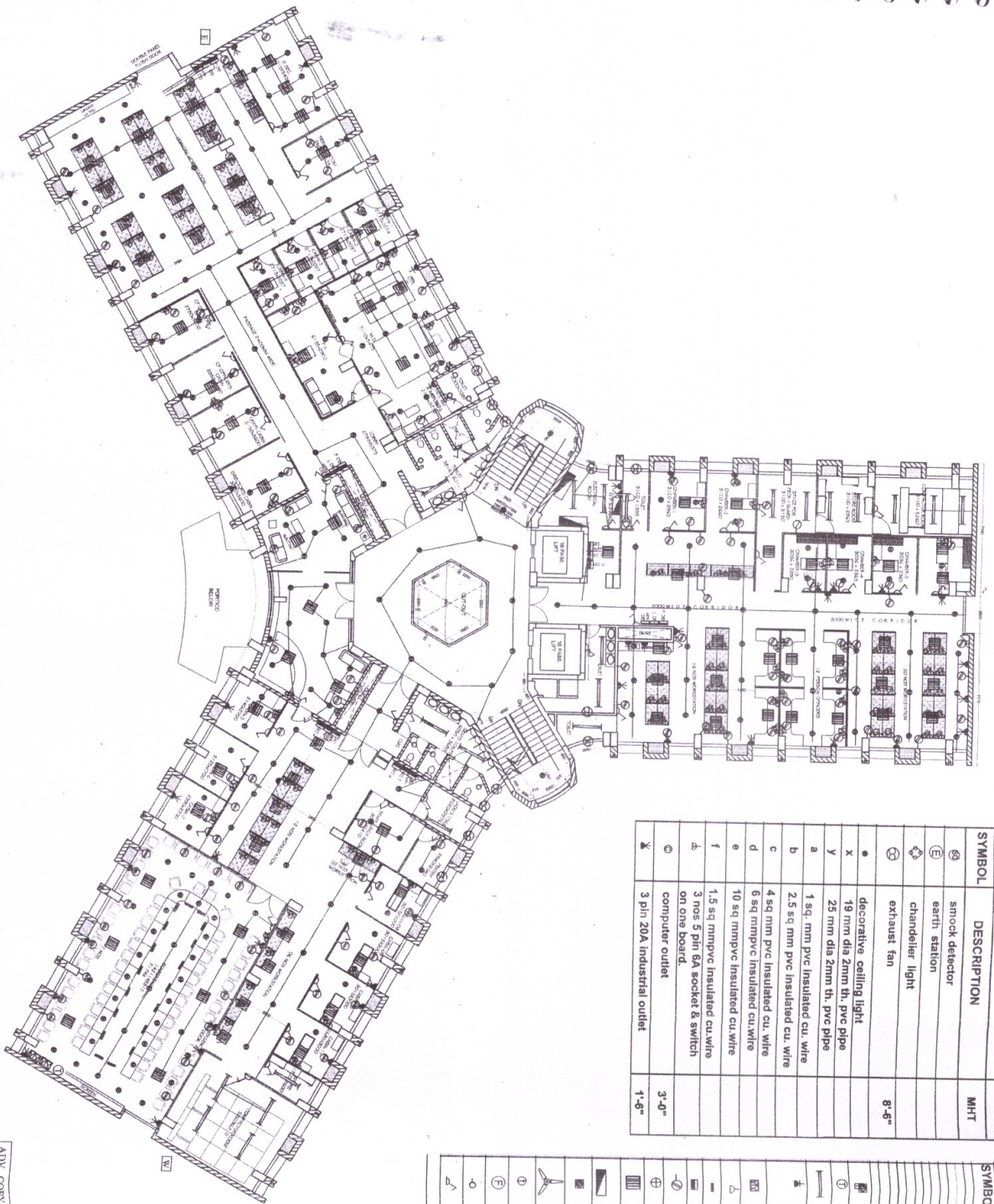
1.	Supply & Installation of water purifier with 500 liters capacity per day. All complete work.	Livpro or Equivalent	Each	01
2.	Supply and installation of water cooler. The water cooler should have two or more taps. The water cooler should be connected with the above water purifier. All complete work.	Voltas or Equivalent	Each	01

We agree to execute the works in accordance with the approved drawings and technical specifications at a total fixed contract price of Rs.....(amount in figures)
(Rs..... amount in words).

Signature of Contractor

Note: Where there is a discrepancy between the rate in figures and words, the rates in words will govern.

Layout Drawings of the works



SYMBOL	DESCRIPTION	MHT
⊕	smock detector	
⊕	earth station	
⊕	chandelier light	
⊕	exhaust fan	8'-6"
•	decorative ceiling light	
X	19 mm dia 2mm th. pvc pipe	
Y	25 mm dia 2mm th. pvc pipe	
A	1 sq. mm pvc insulated cu. wire	
B	2.5 sq. mm pvc insulated cu. wire	
C	4 sq. mm pvc insulated cu. wire	
D	6 sq. mm pvc insulated cu. wire	
E	10 sq. mm pvc insulated cu. wire	
F	1.5 sq. mm pvc insulated cu. wire	
A	3 nos. 5 pin. 6A socket & switch on one board.	
⊕	computer outlet	3'-0"
⊕	3 pin. 20A industrial outlet	1'-6"

SYMBOL	DESCRIPTION	MHT
—	route of power circuit	
—	route of light circuit	
—	route of co-axial wiring	
—	route of telecom wire	
—	route of submain	
—	route of wiring	
⊕	1. V. tele. junc. box	8'-0"
⊕	1. V. outlet	4'-6"
⊕	1x4' - 40W fluorescent fitting	8'-0"
⊕	5 pin 16 amp plug point Kitchen toilet	1'-6" 3'-6" 5'-6"
⊕	amplifier for P. A. system	1'-6"
⊕	5 pin 6 amp plug point	
⊕	1x28w. T 5 cov. light fitting distribution board	6'-0"
⊕	wall bracket fan	8'-0"
⊕	ceiling light	
⊕	2X36W decorative CFL fixture (philips wing 'C')	
⊕	meter panel	
⊕	sound box outlet	
⊕	ceiling fan	
⊕	telephone outlet	1'-6"
⊕	Fan hook box	
⊕	wall bracket light	
⊕	switch board with 6A socket	4'-6"

ADV COPY

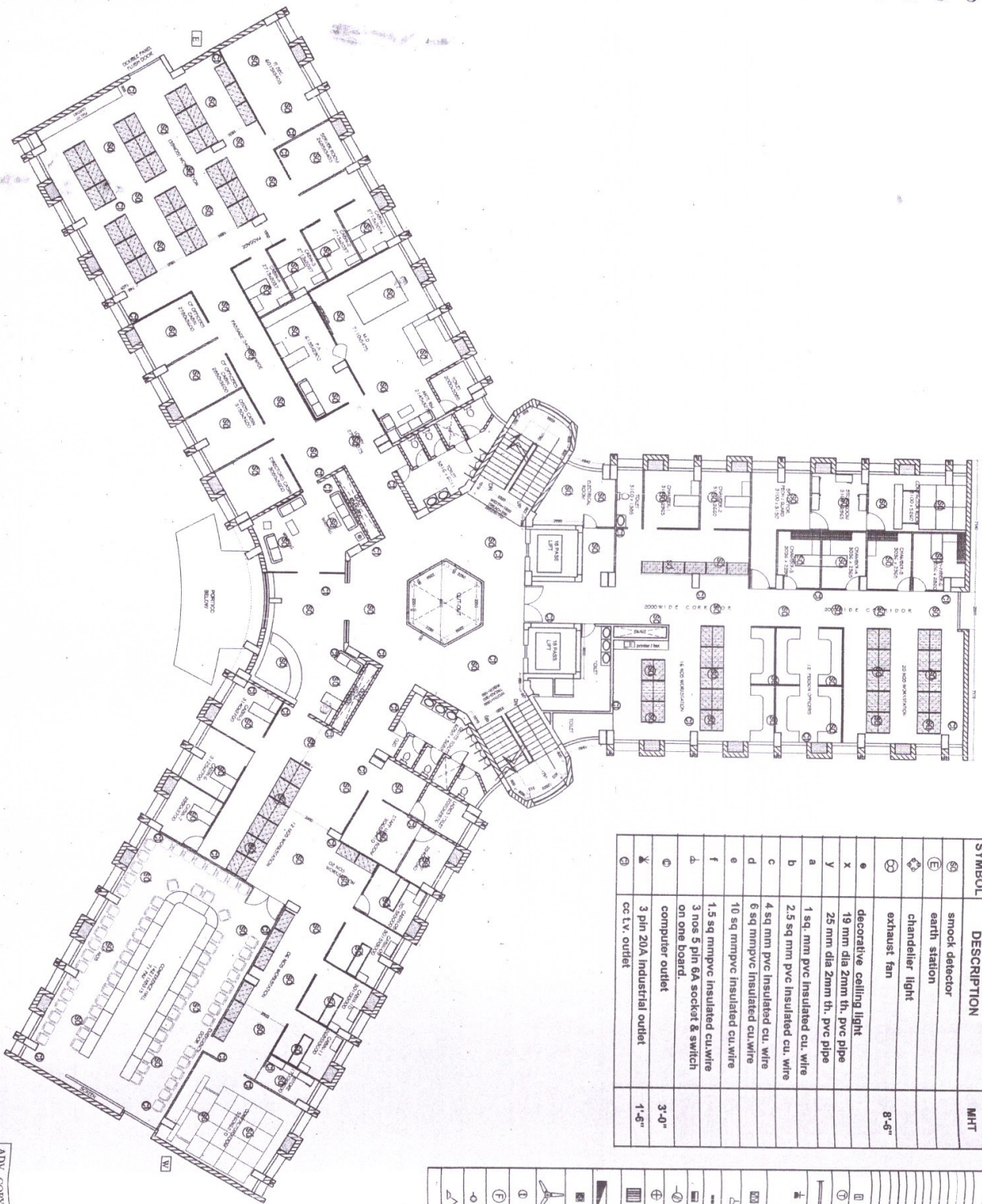
PROJECT:
VIDHUT BHAVAN BLOCK-2
Bihar Keral Universities
Foundation Society

SHEET TITLE:
ELECTRICAL LAYOUT
1ST FLOOR

NORTH

SHEET NO.: E01
DATE: 7.4.17
DRAWING BY:
CHECKED BY:

INTERACT ARCHITECTS PVT. LTD.
ARCHITECTS ENGINEERS INTERIOR DESIGNERS
NO. 10/10, GANESH AVENUE,
PLOT NO. 10/10, GANESH AVENUE,
TRIVANURAM, MADHURAI, INDIA-600 015



LEGEND		
SYMBOL	DESCRIPTION	MHT
⊕	smock detector	
⊕	earth station	
⊕	chandelier light	
⊕	exhaust fan	8'-6"
⊕	decorative ceiling light	
X	19 mm dia 2mm th. pvc pipe	
Y	25 mm dia 2mm th. pvc pipe	
A	1 sq. mm pvc insulated cu. wire	
B	2.5 sq mm pvc insulated cu. wire	
C	4 sq mm pvc insulated cu. wire	
D	6 sq mm pvc insulated cu. wire	
E	10 sq mm pvc insulated cu. wire	
F	1.5 sq mm pvc insulated cu. wire	
A	3 nos 5 pin EA socket & switch on one board.	
⊕	computer outlet	3'-0"
⊕	3 pin 20A industrial outlet	1'-6"
⊕	cc LV outlet	

LEGEND		
SYMBOL	DESCRIPTION	MHT
⊕	route of power circuit	
⊕	route of light circuit	
⊕	route of coaxial wiring	
⊕	route of telecom wire	
⊕	route of submain	
⊕	route of wiring	
⊕	1.v./tele./junc. box	8'-0"
⊕	1.v outlet	4'-6"
⊕	1x4' - 40W fluorescent fitting	8'-0"
⊕	5 pin 16 amp plug point	1'-6"
⊕	Kitchen toilet	3'-6"
⊕	amplifier for P.A. system	5'-6"
⊕	5 pin 6 amp plug point	1'-6"
⊕	1x28w T 5 cov. light fitting	
⊕	distribution board	6'-0"
⊕	wall bracket fan	8'-0"
⊕	ceiling light	
⊕	⊕X38W decorative CFL fixture (philips wing 'C')	
⊕	meter panel	
⊕	sound box outlet	
⊕	ceiling fan	
⊕	telephone outlet	1'-6"
⊕	Fan hook box	
⊕	wall bracket light	
⊕	switch board with EA socket	4'-6"

PROJECT:
VIDHUT BHAVAN BLOCK-2
Bhar Rural Livelihoods
Trondheim Society

SHEET TITLE:
ELECTRICAL LAYOUT
AT THIRD FLOOR
(Smoke detector, cc kv.)

NORTH

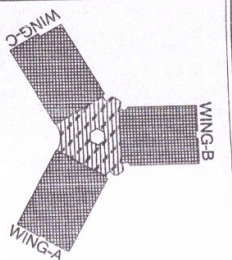
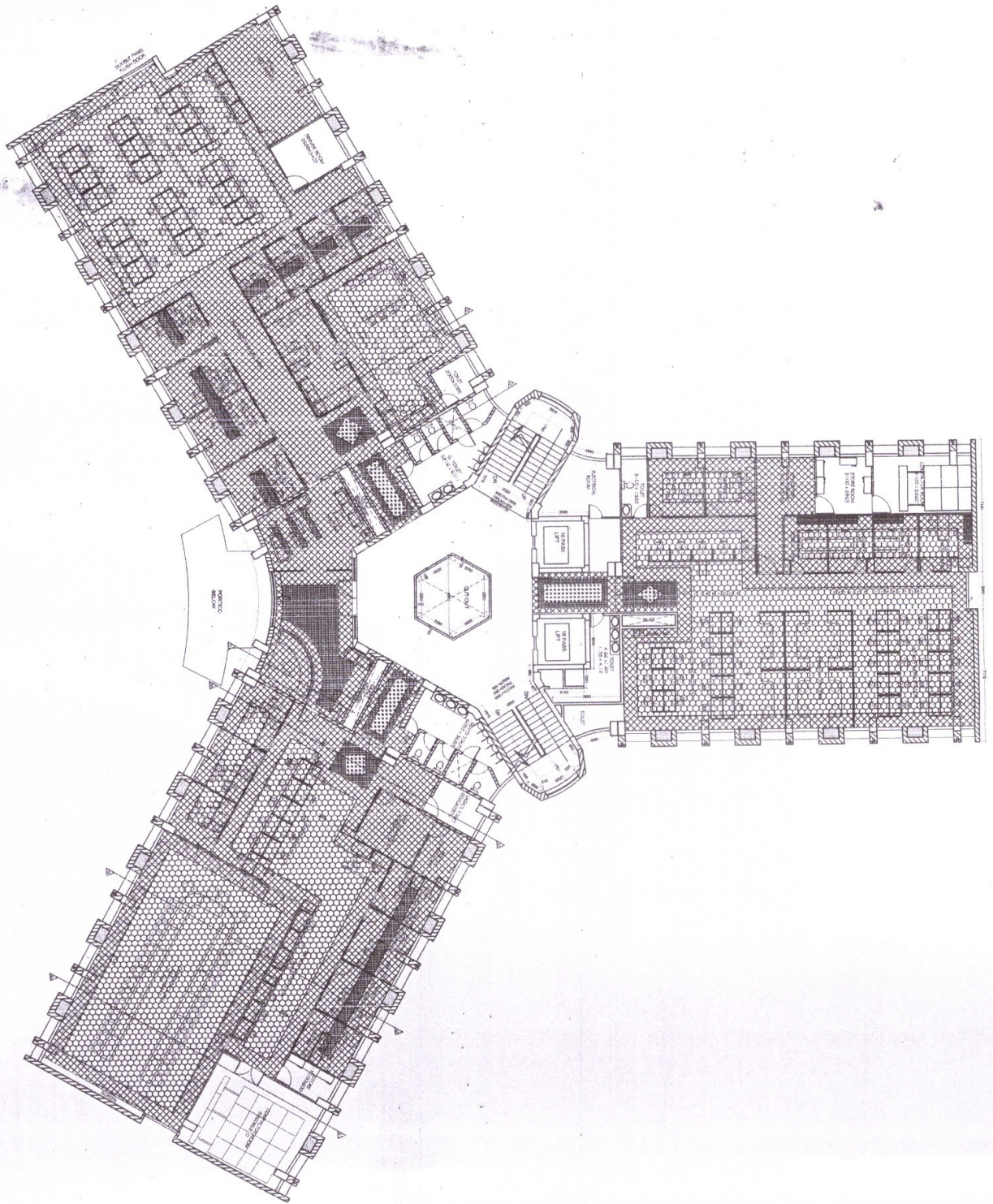
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SHEET NO.: E02

DATE :- 7-4-17





CHECKED BY:
SM

INTERFACE ARCHITECTS PVT. LTD.
AGENTS BUSINESS DEVELOPMENT
MUMBAI 400 001

ADP COPY




LEGEND FALSE CEILING

-  LVL-80"
-  LVL-82"
-  LVL-86"
-  LVL-90"


PROJECT:-
VIDHUT BHAVAN BLOCK-2
Dhar Rural Livelihoods
Promotion Society

SHEET TITLE:-
FALSE CEILING PLAN
AT- THIRD FLOOR


NORTH :- 

SHEET NO.-01

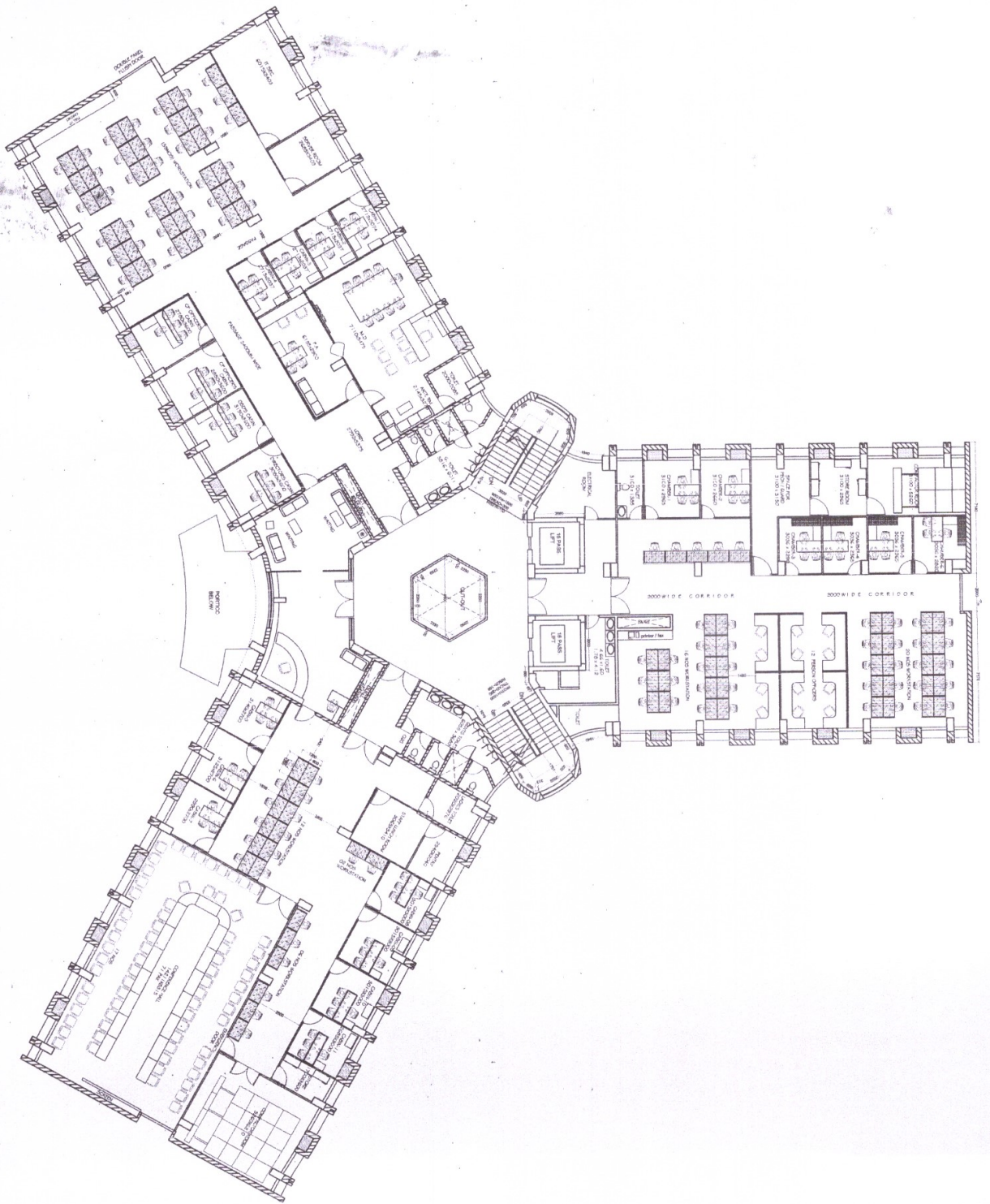
DATE :- 17-12-16

CHECKED BY:- 

DATA WING BY:-
V.KRISHNA



INTERSPACE ARCHITECTS PVT. LTD.
 402, SHREE GANESH KANALYAN TRUST,
 MADHUPURVA COLONY, KANALYAN ROAD, PATNA, -800011
 Ph: 92284 6666, 92284 7777, 92284 5555
 Email: interspacespace@gmail.com



BREAKUP OF WORKSPACE	QTY.
MD. ROOM	01
P. A. ROOM	01
DIRECTOR'S ROOM	01
PC OFFICERS CABIN	01
CE OFFICERS CABIN	01
OSD CABIN	01
WORKSTATIONS	111
CHAMBER AREA	06
CABIN AREA	07
COMPACTOR ROOM	02
STORE	01
IT SECTION	01
SERVICE ROOM	01
RECEPTION AREA	01
STAFF LUNCH ROOM	01
PANTRY	01

PROJECT:-
VIDHUTH BHAVAN BLOCK-2
Bihar Rural Livelihoods
Promotion Society

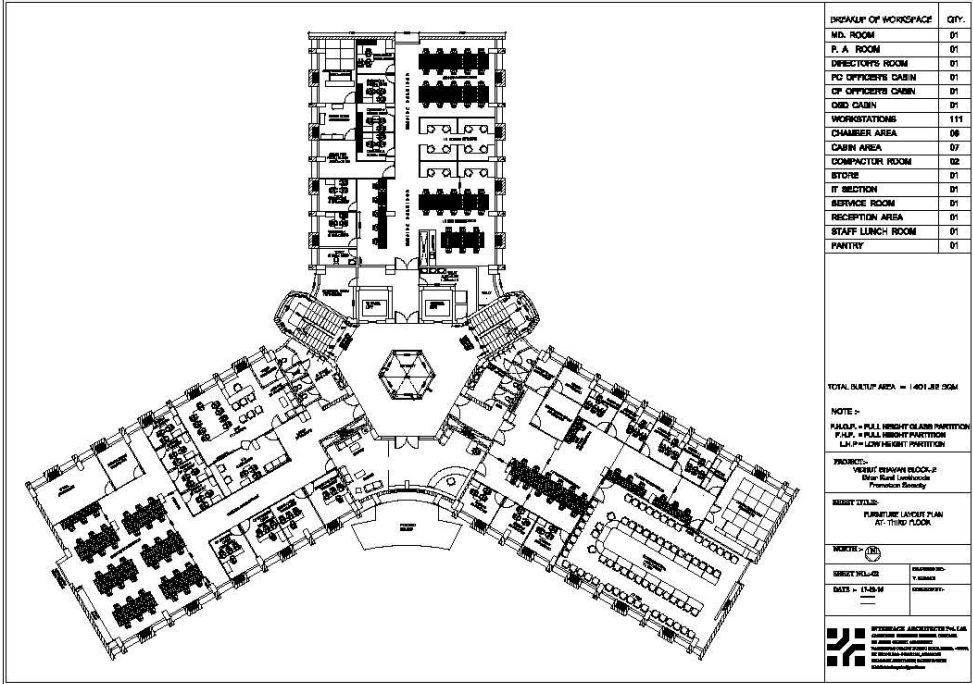
SHEET TITLE:-
FURNITURE LAYOUT PLAN
AT - THIRD FLOOR

NORTH

SHEET NO.-01
DATE :- 13.12.16

DRAWING BY:-
V. KUMAR
CHECKED BY:-
[Signature]

INTERFACE ARCHITECTS PVT.LTD.
ARCHITECTS ENGINEERS INTERIOR DESIGNERS
M-39/2, GREEN CROSS APARTMENT,
7th FLOOR, KANAK SENAPATI MALL, ANAND,
TRIPURA. ADVANTAGE ARCHITECTS
Email: info@interfacearchitects.com



Format of certificate

Certified that the works upto ----- level in respect of construction of ----- at ----- have been executed in accordance with the approved drawings and technical specifications.

Signature
Name & Designation (Official address)
Place:
Date:

Office seal

Form of Bid Security (Bank Guarantee)

[Guarantor letterhead or SWIFT identifier code]

Beneficiary:

[Insert name and address of the Employer]

Invitation for Bids No.: *[Insert reference number for the Invitation for Bids]*

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its bid (hereinafter called "the Bid") for the execution of *[insert description of contract]* under Invitation for Bids No. *[insert number]* ("the IFB").

Furthermore, we understand that, according to the Beneficiary's conditions, bids must be supported by a bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in letters]* (*insert amount in numbers*) upon receipt by us of the Beneficiary's complying supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (a) has withdrawn its Bid during the period of bid validity specified by the Applicant in the Letter of Bid, or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the period of bid validity, (i) fails to execute the Contract Agreement or (ii) fails to furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security issued to the Beneficiary upon the instruction of the Applicant; and (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the bidding process; or (ii) twenty-eight days after the Validity Period, which date shall be established by presentation to us of copies of the Letter of Bid and any extension(s) thereto, accompanied by the bidding document; or (c) three years after the date of issue of this guarantee.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

[signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____ [name of Employer]
_____ [address of Employer]
_____ [name of Contract]

Gentlemen:

In accordance with the provisions of the Conditions of Contract, subclause 3.1 of the above-mentioned Contract, _____ [name and address of Contractor] (hereinafter called "the Contractor") shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ [amount of guarantee]¹ _____ [in words].

We, the _____ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding _____ [amount of guarantee]¹ _____ [in words].

We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed thereunder or of any of the Contract documents which may be made between _____ [name of Employer] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____ [name of Employer] receives full repayment of the same amount from the Contractor.

Yours truly,

Signature and seal: _____
Name of Bank/Financial Institution: _____
Address: _____
Date: _____

¹ An amount shall be inserted by the bank or financial institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

PERFORMANCE BANK GUARANTEE

To: _____ [name of Employer]
_____ [address of Employer]

WHEREAS _____ [name and address of Contractor] (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ [name of Contract and brief description of Works] (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ [amount of guarantee] / _____ [in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of guarantee]¹ as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 28 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____
Name of Bank _____
Address _____
Date _____

1 An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

Section C. World Bank Policy on Corrupt and Fraudulent Practices

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011.

“Fraud and Corruption:

1.16 It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts. In pursuance of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - (ii) “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - (iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (v) “obstructive practice” is
 - (aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
 - (bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly,

- engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- (c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
 - (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank's sanctions procedures, including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated sub-contractor, consultant, supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract;
 - (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.