



इरकॉन इन्टरनेशनल लिमिटेड  
(भारत सरकार का उपक्रम)  
**IRCON INTERNATIONAL LIMITED**  
(A Govt. of India Undertaking)  
An integrated Engineering and Construction Company



IRCON/2056/AANRLP/TENDER/PEB & FOUNDATION/293/2025-26/1539 Dated: 22.04.2025

M/s Tribeni constructions ltd.,  
Tribeni Commercial Complex,  
2nd Floor, G.S Road Ulubari,  
Guwahati-781007  
Email : tclguwahati@gmail.com

**(Letter Of Acceptance)**

**Sub:** Construction of Pre-Engineered Building (PEB) including Foundation, Civil Works complete with Finishing for New Passenger Terminal Building at Nischintapur Yard in connection with Agartala-Akhaura New Rail Link Project - **Letter of Acceptance.**

**Ref:** i. NIT No. IRCON/2056/AANRLP/Tender/ PEB & FOUNDATION/2024-25, Dt.21/03/2025  
ii. Corrigendum 01. Dt. 27.03.2025  
iii. Corrigendum 02. Dt. 02.04.2025  
iv. Your Offer Dt. 07.04.2014, opened on 08.04.2025.

Dear Sir,

Competent Authority has accepted your offer for work of "Construction of Pre-Engineered Building (PEB) including Foundation, Civil Works complete with Finishing for New Passenger Terminal Building at Nischintapur Yard in connection with Agartala-Akhaura New Rail Link Project " at a total cost of **INR 28,52,14,542.71 (Rupees Twenty Eight Crores Fifty Two Lakhs Fourteen Thousand Five Hundred Forty Two and Seventy One Paise only)** inclusive of all Taxes and Duties (GST etc.) as per BOQ attached at Annexure-A.

- 1- The date of commencement of work shall be from the date of issue of this Letter of Award. The completion period shall be of 180 Days (Six Months) from the date of issue of this letter of acceptance.
- 2- You are requested to submit a Performance Security for an amount of 5 % (Five) of the Contract value in form of Bank Guarantee irrevocable at New Delhi/Agartala as per Clause 10 of SCC, which is Rs. 1,42,60,728.00 (Rs. One Crore, Forty-Two Lakh, Sixty Thousand, Seven Hundred and Twenty-Eight only) in favour of IRCON INTERNATIONAL within 21 days from the issue of this letter. (Refer Annexure-IX for the format).

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Pg. 1

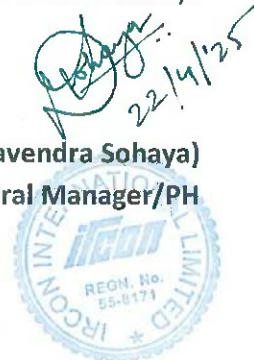
22/4/25



- 3- This letter will constitute a legal and binding contract between Ircon International Ltd. and M/s. Tribeni constructions Ltd, till such time the Contract Agreement is signed, you will enter into and execute the Contract Agreement within 28 (Twenty-Eight) days from the date of issue of this letter with General Manager, Ircon International Ltd, 1st Floor Running room, Agartala Railway Station Office Complex, Siddhi Ashram, Badharghat, Agartala (West Tripura) -799003.
- 4- You are requested to contact undersigned for signing of the Contract Agreement on the Stamp paper of the requisite value as per the prevailing laws, to be arranged by you at your own cost.
- 5- This letter is being issued to you in duplicate as per Clause 23 of Instructions to Tenderer of Tender Document, one copy (Duplicate) shall be duly stamped and signed is to be returned as a token of your acknowledgement. Letter of Acceptance issued in duplicate shall be, signed and stamped on each page by your authorized representative.

Thanking You,  
Yours Sincerely,  
For & on behalf of,  
Northeast Frontier Railways

(Davendra Sohaya)  
General Manager/PH



CC: 1. ED/Works, New Delhi  
2. CGM/Works

Enc. - Ann. A

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| <b>SUMMARY</b>                                                                                                                                                                                                                      |                                                       |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------|
| PROJECT: CONSTRUCTION OF PRE-ENGINEERED BUILDING (PEB) INCLUDING FOUNDATION,CIVIL WORKS COMPLETE WITH FINISHING FOR NEW PASSENGER TERMINAL BUILDING AT NISCHINTAPUR YARD IN CONNECTION WITH AGARTALA-AKHAURA NEW RAIL LINK PROJECT. |                                                       |                  |
| S.No.                                                                                                                                                                                                                               | Brief Description                                     | Amount ( in Rs.) |
| 1                                                                                                                                                                                                                                   | SCHEDULE-A CIVIL FOUNDATION                           | 16,58,37,090.98  |
| 2                                                                                                                                                                                                                                   | SCHEDULE-B DSR BUILDING                               | 6,03,49,055.98   |
| 3                                                                                                                                                                                                                                   | SCHEDULE-C NDSR BUILDING                              | 43,10,915.65     |
| 4                                                                                                                                                                                                                                   | SCHEDULE-D DSR ELECTRICAL                             | 40,61,298.31     |
| 5                                                                                                                                                                                                                                   | SCHEDULE-E NDSR ELECTRICAL                            | 76,25,604.05     |
| 6                                                                                                                                                                                                                                   | SCHEDULE-F FIRE ALARM & DETECTION SYSTEM              | 22,11,626.10     |
| 7                                                                                                                                                                                                                                   | Net Total                                             | 24,43,95,591.07  |
| 8                                                                                                                                                                                                                                   | GST @ 18 % for Works Contract                         | 4,39,91,206.39   |
| 9                                                                                                                                                                                                                                   | Total (A)                                             | 28,83,86,797.47  |
| 10                                                                                                                                                                                                                                  | Say                                                   | 28,83,86,798.00  |
| 11                                                                                                                                                                                                                                  | Contractor offer Premium/Discount/At Par in %         | -1.10%           |
| 2                                                                                                                                                                                                                                   | Contractor Premium/Discount/At Par (-1.1) % of A= (B) | -31,72,254.78    |
| 13                                                                                                                                                                                                                                  | Grand Total (A+B)                                     | 28,52,14,542.71  |



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**SCHEDULE A: BILL OF QUANTITIES CIVIL FOUNDATION**

| SN                         | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit       | Quantity             | Rate (INR)             | Amount (INR)                   |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|------------------------|--------------------------------|
| <b>1</b>                   | <b>PILE WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                      |                        |                                |
| 1.1                        | Bored cast-in-situ M35 grade R.C.C. pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 m.<br>Pile diameter-1200 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                      |                        |                                |
| 1.2                        | Providing, fabricating and installing permanent casing pipe/ steel liner for bored piles for 1200 mm diameters pile with specified thickness of steel plate including all labour, materials, pumping and bailing out water wherever required, complete as per technical specifications as directed by Engineer in charge. This will include the weight of plate only and no cognizance will be given for the fittings, i.e. rivets and welding etc.<br>Note: 1. Only permanent liner below the pile cut-off level shall be paid. Temporary Liner installed above removed after pile concreting, then also it is non-payable. cut off level shall not be paid. In case liner is removed after pile concreting, then also it is non- payable.<br>Upto 10 mm thick, 15 m length for each pile | metre      | 2,480.000            | 21,351.84              | 5,29,52,571.44                 |
| <b>2</b>                   | <b>CEMENT CONCRETE WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MT         | 285.000              | 1,16,784.05            | 3,32,83,455.39                 |
|                            | <b>PCC M-20 Below Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                      |                        |                                |
| 2.1                        | Plain/ Reinforced cement concrete, in open foundation complete as per drawing and technical specification including steel shuttering Plain/ Reinforced cement concrete, in open foundation complete as per drawing and technical specification including steel shuttering formwork. With plasticiser (Masterplast PL-1/ SPL-2 or equivalent ), air entraining and water reducing plasticiser (Masterplast PAE or equivalent) and accelerating plasticiser (Masterplast ACPL or equivalent) conforming to IS-9103-1999.                                                                                                                                                                                                                                                                     |            |                      |                        |                                |
|                            | <b>PCC Grade M20 (1:1.5:3)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                      |                        |                                |
| 2.3                        | Cement concrete for reinforced concrete in pile cap complete as per drawing and Technical specifications. With plasticiser (Masterplast PL-1/ SPL-2 or equivalent ), air entraining and water reducing plasticiser (Masterplast PAE or equivalent) and accelerating plasticiser (Masterplast ACPL or equivalent) conforming to IS-9103-1999. RCC Grade M35 , Using Batching Plant, Transit Mixer and Concrete Pump.                                                                                                                                                                                                                                                                                                                                                                        | CUM<br>cum | 320.000<br>1,800.000 | 10,576.00<br>11,407.01 | 33,84,320.62<br>2,05,32,613.23 |
| <b>3</b>                   | Supplying of TMT Fe-500 D Primary Producer (TATA/ SAIL/ RINL/ Jindal Panther Steel/ Jindal Neo) reinforcement steel conforming to IS: 1786-2008 including decoiling, straightening, cutting, bending, placing in position, binding with 18 SWG (1.25 mm) dia MS binding wire.<br>Note 1: Reinforcement shall be measured in length for different diameters used in the works and then paid as per standard weights only.<br>Note 2: wastages, overlaps, spacer/stiffener bar, coupling, welded joints, chairs and binding wire shall not be measured and cost of these items shall be deemed to be included in the rates.<br>Note 3: Authorized lap is payable beyond 12 m of length of bar.                                                                                               | MT         | 585.000              | 88,519.26              | 5,17,83,765.20                 |
| <b>4</b>                   | <b>EARTH WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                      |                        |                                |
| 4.1                        | Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of storing and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavated earth to the extent required and utilising the remaining earth locally for road work.) (i) ordinary soil<br>Mechanical Means (Depth upto 3 m) (With dewatering)                                                                                                                                                                                                                                                                                                                            |            |                      |                        |                                |
| <b>6</b>                   | <b>PILE &amp; PILE TEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | cum        | 3,550.000            | 74.06                  | 2,62,926.88                    |
| 6.1                        | Supply and installation for Cross Hole Ultra Sonic monitor test arrangement including 4 Nos Mild Steel/ Stainless Steel pipe of approved make of internal diameter 40 mm for each pile in entire length, couplers & End caps with all arrangement for test as directed by Engineer in Charge. Note1: Payment shall be made only for Chum test done successfully up to specified design depth. No payment shall be made for which testing can not be performed due to choked pipe.                                                                                                                                                                                                                                                                                                          | Each test  | 80.000               | 32,402.90              | 25,92,232.34                   |
| <b>7</b>                   | <b>LABORATORY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                      |                        |                                |
| 7.1                        | Establishing a laboratory manned with two qualified engineer and Four technician, equipped with calibrated new equipment of AIMIL or equivalent make as approved by engineer in charge to carry out all tests of cement, sand, aggregate & concrete along with a laboratory office to be used by engineer for safe keeping of records.                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LS         | 1.000                | 10,45,205.88           | 10,45,205.88                   |
| <b>Total of Schedule A</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                      |                        | <b>16,58,37,090.98</b>         |





## SCHEDULE B: BILL OF QUANTITIES DSR BUILDING

| S.No.    | Item description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | Quantity     | Rate (INR) | Amount (INR)   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|----------------|
| <b>1</b> | <b>EARTHWORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |              |            |                |
| 1.1      | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | cum  | 1,500.000    | 267.42     | 4,01,130.00    |
| <b>2</b> | <b>SAND</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |              |            |                |
| 2.1      | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cum  | 2,000.000    | 2,897.66   | 57,95,320.00   |
| <b>3</b> | <b>ANTITERMITE TREATMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |              |            |                |
|          | Supplying chemical emulsion in sealed containers including delivery as specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |              |            |                |
| 3.1      | Chlorpyrifos/ Lindane emulsifiable concentrate of 20%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ltr  | 500.000      | 320.29     | 1,60,145.00    |
| 3.2      | Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |              |            |                |
|          | Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 Coarse sand) to match the existing floor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |              |            |                |
|          | With Chlorpyrifos/Lindane E.C. 20% with 1% concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm  | 150.000      | 423.03     | 63,454.50      |
| <b>4</b> | <b>PILE &amp; PILE TEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |              |            |                |
| 4.1      | Conducting load test of a single pile up to specified capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |              |            |                |
| 4.1.1    | Initial load test above 100 ton and up to 250 T capacity pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 1.000        | 96,278.21  | 96,278.21      |
| 4.1.2    | Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 2.000        | 5,148.66   | 10,297.32      |
| 4.2      | Routine Load Test above 100 ton capacity up to 250 ton capacity pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Each | 2.000        | 48,139.11  | 96,278.22      |
| 4.3      | Lateral load testing of single pile in accordance with "IS Code of practice IS:2911 (Part-IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification as directed by the Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |              |            |                |
| 4.3.1    | Piles with lateral load capacity of up to 50 ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 1.000        | 21,730.10  | 21,730.10      |
| <b>5</b> | <b>STEEL WORK IN BUILT UP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |              |            |                |
| 5.1      | Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washer etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |              |            |                |
|          | Hot finished seamless type tubes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Kg   | 1,04,040.000 | 296.63     | 3,08,61,385.20 |
| <b>6</b> | <b>ROOFING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |              |            |                |
| 6.1      | Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer - in - charge) of total coated thickness 0.50mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS:277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5 x 55mm) with EPDM seal, complete upto any pitch in horizontal/vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. | Sqm  | 664.410      | 1,007.82   | 6,69,605.69    |
| <b>7</b> | <b>BRICK WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |              |            |                |
| 7.1      | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |              |            |                |
| 7.1.1    | cement mortar 1:4 (1 cement : 4 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | sqm  | 500.000      | 1,234.86   | 6,17,430.00    |
| <b>8</b> | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |              |            |                |
| 8.1      | Cement mortar 1:4 (1 cement : 4 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | sqm  | 1,500.000    | 1,533.32   | 22,99,980.00   |
| 8.2      | Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry with 150 mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).                                                                                                                                                                                                                                                                                                                                                                                                                                    | cum  | 200.000      | 11,370.49  | 22,74,098.00   |
| <b>9</b> | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.                                                                                                                                                                                                                                       |      |              |            |                |
|          | Glazed Vitrified tiles Mat/Antiskid finish of size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |              |            |                |
|          | Size of Tile 800 x 800 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | sqm  | 1,000.000    | 2,352.78   | 23,52,780.00   |



| S.No. | Item description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit | Quantity | Rate (INR) | Amount (INR) |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------|--------------|
| 10    | Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.                    |      |          |            |              |
| 4.1   | 80 mm thick C.C. paver block of M-35 grade with approved color design and pattern.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | sqm  | 500.000  | 1,489.25   | 7,44,625.00  |
| 11    | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). | kg   | 250.000  | 1,053.87   | 2,63,467.50  |
| 12    | Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |            |              |
|       | New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50gram/litre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | sqm  | 750.000  | 253.30     | 1,89,975.00  |



| S.No. | Item description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit | Quantity | Rate (INR) | Amount (INR) |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------|--------------|
| 13    | Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |            |              |
| 7.1   | Two coats                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | sqm  | 750.000  | 194.84     | 1,46,130.00  |
| 14    | Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |            |              |
| 14.1  | 20 mm cement plaster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | sqm  | 750.000  | 801.18     | 6,00,885.00  |
|       | Finishing walls with textured exterior paint of required shape:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |            |              |
| 14.2  | New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | sqm  | 750.000  | 305.08     | 2,28,810.00  |
| 15    | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |            |              |
| 15.1  | Size of Tile 800x800 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | sqm  | 250.000  | 2,672.12   | 6,68,030.00  |
| 16    | Providing and fixing tiled false ceiling of specified 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 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 27X37X25X1.6 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. | sqm  | 150.000  | 2,441.54   | 3,66,231.00  |
| 17    | Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |            |              |
| 17.1  | Second class teak wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |            |              |
|       | 35 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | sqm  | 100.000  | 6,740.44   | 6,74,044.00  |
| 17.2  | Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.                                                                              |      |          |            |              |
|       | 30 mm thick pre laminated PVC door shutters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | sqm  | 30.000   | 4,998.91   | 1,49,967.30  |
| 18    | Providing and fixing circular/hexagonal Fan box cast iron /metal sheet Box for ceiling fan clamp of internal dia 140mm , 73 mm height, Top lid of 1.5mm thick MS sheet with its Top surface hacked of proper bonding top lid shall be screwed into cast iron /metal sheet Box by mean of 3.3mm dia round headed screw one lock at the corners.clamp shall be made of 12mm dia ms Bar band toshape as per standrd drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Each | 25.000   | 301.06     | 7,526.50     |
| 19    | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |            |              |
|       | For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |            |              |
|       | Powder coated aluminium (minimum thickness of powder coating 50 micron)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | kg   | 600.000  | 865.65     | 5,19,390.00  |
| 20    | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |            |              |
|       | With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | sqm  | 250.000  | 2,053.77   | 5,13,442.50  |

7/18





| S.No. | Item description                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit  | Quantity | Rate (INR) | Amount (INR) |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|------------|--------------|
| 21    | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:                                                                         |       |          |            |              |
| 21.1  | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests                                                                                                                                                                                                                                                                                                                                                              | Each  | 5.000    | 9,233.49   | 46,167.45    |
| 21.2  | Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :                                                                      |       |          |            |              |
|       | W.C. pan with ISI marked white solid plastic seat and lid                                                                                                                                                                                                                                                                                                                                                                                                  | Each  | 12.000   | 8,889.86   | 1,06,678.32  |
| 21.3  | Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : |       |          |            |              |
|       | Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern                                                                                                                                                                                                                                                                                                                                                                          | Each  | 12.000   | 30,096.43  | 3,61,157.16  |
| 21.4  | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:                                                                                                                                                                                                                             |       |          |            |              |
|       | White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap                                                                                                                                                                                                                                                                                                                                                                  | Each  | 15.000   | 3,037.65   | 45,564.75    |
| 21.5  | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :                                                                                                                                                                                                                   |       |          |            |              |
|       | Kitchen sink without drain board                                                                                                                                                                                                                                                                                                                                                                                                                           |       |          |            |              |
|       | 610x510 mm bowl depth 200 mm                                                                                                                                                                                                                                                                                                                                                                                                                               | Each  | 2.000    | 6,741.26   | 13,482.52    |
| 21.6  | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.                                                                                                                                                                                                                                                                                                                                                    |       |          |            |              |
|       | Flexible pipe                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |          |            |              |
|       | 32 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each  | 2.000    | 163.11     | 326.22       |
| 21.7  | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.                                                                                                                                                                                                                                                 | Each  | 4.000    | 2,193.90   | 8,775.60     |
| 21.8  | Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :                                                                                                                                                                                                                                                              |       |          |            |              |
|       | Rectangular shape 1500x450 mm                                                                                                                                                                                                                                                                                                                                                                                                                              | Each  | 5.000    | 2,855.70   | 14,278.50    |
| 21.9  | Providing and fixing soil, waste and vent pipes :                                                                                                                                                                                                                                                                                                                                                                                                          |       |          |            |              |
|       | 100 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |          |            |              |
|       | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989                                                                                                                                                                                                                                                                                                                                                                                  | metre | 60.000   | 1,611.02   | 96,661.20    |
| 21.10 | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :                                                                                                                                |       |          |            |              |
|       | For 100 mm dia pipe                                                                                                                                                                                                                                                                                                                                                                                                                                        | Each  | 36.000   | 495.08     | 17,822.88    |
| 21.11 | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.                                                                                                                                                                                                                                                                                                                                |       |          |            |              |
|       | 100 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |          |            |              |
|       | Sand cast iron S&S as per IS - 3989                                                                                                                                                                                                                                                                                                                                                                                                                        | Each  | 9.000    | 962.18     | 8,659.62     |
| 21.12 | Providing and fixing plain bend of required degree.                                                                                                                                                                                                                                                                                                                                                                                                        |       |          |            |              |
|       | 100 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |          |            |              |
|       | Sand cast iron S&S as per IS : 3989                                                                                                                                                                                                                                                                                                                                                                                                                        | Each  | 15.000   | 777.78     | 11,666.70    |
| 21.13 | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.                                                                                                                                                                                                                                                                                                         |       |          |            |              |
|       | 100x100x100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |          |            |              |
|       | Sand cast iron S&S as per IS - 3989                                                                                                                                                                                                                                                                                                                                                                                                                        | Each  | 21.000   | 1,263.03   | 26,523.63    |
| 21.14 | Providing and fixing single equal plain junction of required degree :                                                                                                                                                                                                                                                                                                                                                                                      |       |          |            |              |
|       | 100x100x100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |          |            |              |
|       | Sand cast iron S&S as per IS - 3989                                                                                                                                                                                                                                                                                                                                                                                                                        | Each  | 18.000   | 1,107.76   | 19,939.68    |
| 21.15 | Providing and fixing terminal guard :                                                                                                                                                                                                                                                                                                                                                                                                                      |       |          |            |              |
|       | 100 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |          |            |              |
|       | Sand cast iron S&S as per IS - 3989                                                                                                                                                                                                                                                                                                                                                                                                                        | Each  | 16.000   | 690.39     | 11,046.24    |
| 21.16 | Providing and fixing collar :                                                                                                                                                                                                                                                                                                                                                                                                                              |       |          |            |              |
|       | 100 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |          |            |              |
|       | Sand cast iron S&S as per IS - 3989                                                                                                                                                                                                                                                                                                                                                                                                                        | Each  | 18.000   | 700.15     | 12,602.70    |
| 21.17 | Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :                                                                                                                                                                                                                                                                                                                                            |       |          |            |              |
|       | 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Each  | 30.000   | 849.34     | 25,480.20    |
| 21.18 | 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 :                                                                                                                                                                                                                                                                 |       |          |            |              |
|       | 100 mm inlet and 100 mm outlet                                                                                                                                                                                                                                                                                                                                                                                                                             |       |          |            |              |
|       | Sand cast iron S&S as per IS: 3989                                                                                                                                                                                                                                                                                                                                                                                                                         | Each  | 40.000   | 2,724.04   | 1,08,961.60  |



| S.No.                      | Item description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit  | Quantity  | Rate (INR)   | Amount (INR)          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|--------------|-----------------------|
| 21.19                      | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :<br>100 mm diameter pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |           |              |                       |
| 21.20                      | Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | metre | 150.000   | 112.97       | 16,945.50             |
| 22.1                       | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each  | 15.000    | 316.47       | 4,747.05              |
|                            | <b>Internal work - Exposed on wall</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |           |              |                       |
| 22.2                       | 32 mm nominal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |           |              |                       |
| 22.3                       | 40 mm nominal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | metre | 100.000   | 707.79       | 70,779.00             |
| 22.4                       | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | metre | 80.000    | 959.11       | 76,728.80             |
|                            | <b>Concealed work, including cutting chases and making good the walls etc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |           |              |                       |
| 22.5                       | 15 mm nominal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |           |              |                       |
| 22.6                       | 20 mm nominal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | metre | 120.000   | 679.20       | 81,504.00             |
| 22.7                       | 25 mm nominal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | metre | 100.000   | 733.51       | 73,351.00             |
| 23.1                       | Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12-6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6 mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6 mm thick, spacer tube 12 mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2)<br>For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.<br>(i) Coloured tinted float glass 6 mm thick substrate with reflective soft coating on face # 2, + 12 mm Airgap + 6 mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35%, Light reflection internal 10 to 15%, light reflection external 10 to 20%, shading coefficient (0.25-0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement. | sqm   | 430.000   | 5,073.82     | 21,81,742.60          |
| 23.2                       | Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | sqm   | 100.000   | 5,009.42     | 5,00,942.00           |
| 24                         | Supplying & laying of bi-axial extruded high modulus polypropylene geogrid conforming to MORTH SPECIFICATION for base/sub-base reinforcement, having minimum tensile strength 15 kN/m in the longitudinal and transverse direction, with 5 kN/m and 7 kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38 mm X 38 mm mesh opening.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sqm   | 1,549.999 | 340.97       | 5,28,503.02           |
| 25                         | <b>Any Other DSR 2023 Items (After Approval of Engineer in-Charge)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LS    | 1.000     | 50,00,000.00 | 50,00,000.00          |
| <b>Total of Schedule B</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |              | <b>6,03,49,055.98</b> |



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**SCHEDULE C: BILL OF QUANTITIES NDSR BUILDING**

| S.No.               | Item description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit  | Quantity | Rate(INR)   | Amount(INR)  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------------|--------------|
| 1                   | Providing & fixing of composite insulated panels manufactured in a continuous process plant with high speed oscillation sprayed foam in roof and wall with all necessary flashing, trims, ridge capping, accessories & fasteners to ensure and air tight, insulated building which is not only functionally compliant but also aesthetically pleasing with contemporary international look. The specification is as follows: Composite insulated panels having on top side trapezoidal profile 28-35 mm deep and 200-300mm pitch with 950-1050 mm effective cover width. The profile having 2-3 secondary ribs in pan and an anticlimactically flute at side overlap shall be made of 0.50 mm TCT pre painted high tensile gallvalume/zincalume steel grade AZ 150/G-300 having hot dipped metallic Zn-Al alloy coating (150gms/Sqm. Zinc 45% Al 55%) as per AS 1397-1993 having 300MPs yield strength with Super Durable Polyester XRW coating or equivalent as per AS/NZS- 2728-1997 category 3 total coating thickness of 35 microns comprising of 20 microns exterior coat of SMP over superpolyester XRW on top surface & 5 micron polyester reverse on back surface over 5 micron primer coat on both surfaces and bottom liner tray made of 0.50mm TCT pre- painted high tensile gallvalume/Zincalume steel grade AZ 150/G-300 of similar specification as for the top sheet in approved colour including side and end laps. The panels shall have 30mm thick (Min) insulation core of rigid polyurethane foam 40 Kg/m3 density to the requirement of IS 12436-68. The panels shall be produced in a continuous process line with high pressure oscillation spray foamed insulation core. The panels of customised length shall have a return leg tongue to ensure snug and air tight joinery at bottom. The overlap side shall have an isolation lap to prevent thermal bridge. Roof and wall panels shall be fixed using stainless steel hex head self drilling fasteners as per AS 3566 class 3 or equivalent on crest of panels for connection with purlins and stitching fastener@ 300 mm c/c on all side and end laps etc. Measurement shall be based on per unit of finished laid surface area. Sealant and gaskets wherever necessary to be provided to ensure contemporary aesthetic look of international standard. Roofs of buildings, Canopy and side cladding, gable end cladding etc all complete:- | Sqm   | 1850.000 | 1,858.59    | 34,38,391.50 |
| 2                   | Designing, providing, fabricating and erecting hot dipped galvanized " Rain Water Gutters" using 3.15 mm thick MS sheet including all accessories, connection sleeves for connecting rain water pipes to gutters placed at roof along all valleys of buildings including site seal welding at all joints to make water tight including painting as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MT    | 5.000    | 1,43,701.23 | 7,18,506.15  |
| 3                   | Providing, fabricating and fixing rain water drainage pipe 150 mm Dia OD 3.65mm thick from gutter at roof level to local drain in proper line and level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Meter | 100.000  | 1,540.18    | 1,54,018.00  |
| Total of Schedule C |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |          |             | 43,10,915.65 |



**SCHEDULE-D DSR ELECTRICAL**

**SCHEDULE D: BILL OF QUANTITIES DSR ELECTRICAL**

| S.No.                  | Item Description                                                                                                                                                                                                                                                                                                                                             | Unit  | Quantity | Rate (INR) | Amount (INR) |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|------------|--------------|
| <b>INTERNAL WIRING</b> |                                                                                                                                                                                                                                                                                                                                                              |       |          |            |              |
| 1                      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS medium class PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. |       |          |            |              |
| 1.1                    | Group A                                                                                                                                                                                                                                                                                                                                                      | Point | 250.000  | 1,459.06   | 3,64,765.00  |
| 2                      | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.                                 | Point | 12.000   | 2,245.38   | 26,944.56    |
| 3                      | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.                                                                                               | Metre | 1500.000 | 480.13     | 7,20,195.00  |
| 4                      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.                                                                                                                                                        |       |          |            |              |
| 4.1                    | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire                                                                                                                                                                                                                                                                                                                   | Metre | 1250.000 | 395.31     | 4,94,137.50  |
| 4.2                    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire                                                                                                                                                                                                                                                                                                                       | Metre | 300.000  | 631.06     | 1,89,318.00  |
| 13                     | Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.                                                                                                                       | Metre | 25.000   | 320.56     | 8,014.00     |
| 5                      | Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.                                                                                                                                                                           | Each  | 30.000   | 530.44     | 15,913.20    |
| 6                      | Supplying and fixing <b>modular blanking plate</b> on the existing modular plate & switch box excluding modular plate as required.                                                                                                                                                                                                                           | Each  | 100.000  | 57.50      | 5,750.00     |
| 8                      | 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 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.                                                                                                                | Each  | 30.000   | 842.38     | 25,271.40    |
| 10                     | Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.                                                                                                                                                                                                                                                           | Each  | 5.000    | 142.31     | 711.55       |
| 11                     | Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.                                     | Each  | 25.000   | 296.13     | 7,403.25     |
| 12                     | Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.                                                               | Each  | 12.000   | 487.31     | 5,847.72     |
| 9                      | Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required                                                                                                                                                                                                                                                                                      | Each  | 200.000  | 81.94      | 16,388.00    |
| 14                     | Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.                                                                                                                                                                                                                  | Each  | 3.000    | 646.88     | 1,940.64     |
| 17                     | Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)                                  |       |          |            |              |
| 17.1                   | 6 way (4 + 18), Double door                                                                                                                                                                                                                                                                                                                                  | Each  | 3.000    | 7,150.13   | 21,450.39    |
| 17.2                   | 8 way (4 + 24), Double door                                                                                                                                                                                                                                                                                                                                  | Each  | 3.000    | 8,577.56   | 25,732.68    |
| 18                     | 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.                                                                                                                 |       |          |            |              |



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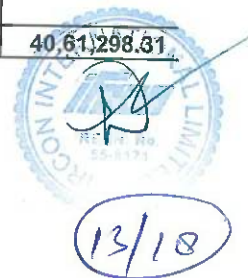
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|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|-------------|
| 18.1                                             | Single pole                                                                                                                                                                                                                                                                                                                         | Each  | 120.000 | 368.00    | 44,160.00   |
| 19                                               | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.                                                                                                                                                                                                                                   | Each  | 10.000  | 18.69     | 186.90      |
| 20                                               | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                                                    |       |         |           |             |
| 20.1                                             | 40 amps                                                                                                                                                                                                                                                                                                                             | Each  | 20.000  | 3,797.88  | 75,957.60   |
| <b>HOT DEEP GI CABLE TRAYS &amp; GI RACEWAYS</b> |                                                                                                                                                                                                                                                                                                                                     |       |         |           |             |
| 21                                               | Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. |       |         |           |             |
| 21.1                                             | 150 mm width X 50 mm depth X 1.6 mm thickness                                                                                                                                                                                                                                                                                       | Metre | 40.000  | 1,029.25  | 41,170.00   |
| 21.2                                             | 300 mm width X 50 mm depth X 1.6 mm thickness                                                                                                                                                                                                                                                                                       | Metre | 20.000  | 1,384.31  | 27,686.20   |
| 22                                               | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.                                                                                   | Set   | 2.000   | 10,741.00 | 21,482.00   |
| 23                                               | Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.                                                                                                                                    | Metre | 5.000   | 2,229.56  | 11,147.80   |
| 24                                               | Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required                                                                                                                                                                                                                               | Metre | 15.000  | 350.75    | 5,261.25    |
| 25                                               | Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.                                                                                                                                                                                                                                     | Metre | 100.000 | 100.63    | 10,063.00   |
|                                                  | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.                                                                                                      |       |         |           |             |
|                                                  | Above 35 sq. mm and upto 95 sq. mm                                                                                                                                                                                                                                                                                                  | Metre | 150.000 | 582.19    | 87,328.50   |
|                                                  | Above 95 sq. mm and upto 185 sq. mm                                                                                                                                                                                                                                                                                                 | Metre | 550.000 | 606.63    | 3,33,646.50 |
|                                                  | Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.                                       |       |         |           |             |
|                                                  | Above 35 sq. mm and upto 95 sq. mm                                                                                                                                                                                                                                                                                                  | Metre | 150.000 | 411.13    | 61,669.50   |



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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |         |           |              |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|--------------|
|                     | Above 95 sq. mm and upto 185 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Metre | 550.000 | 437.00    | 2,40,350.00  |
|                     | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |         |           |              |
|                     | Above 35 sq. mm and upto 95 Sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Metre | 75.000  | 81.94     | 6,145.50     |
|                     | Above 95 sq. mm and upto 185 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Metre | 230.000 | 110.69    | 25,458.70    |
|                     | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |         |           |              |
|                     | Upto 35 sq. mm (clamped with 1mm thick saddle)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Metre | 50.000  | 79.06     | 3,953.00     |
|                     | Above 35 sq. mm and upto 195 sq. mm (clamped with 25/40x3mm MS flat clamp)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Metre | 75.000  | 186.88    | 14,016.00    |
|                     | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |         |           |              |
|                     | Upto 35 sq. mm (clamped with 1mm thick saddle)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Metre | 50.000  | 64.69     | 3,234.50     |
|                     | Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Metre | 90.000  | 132.25    | 11,902.50    |
|                     | Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Metre | 90.000  | 165.31    | 14,877.90    |
| 27                  | Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |         |           |              |
| 27.1                | 4 X 120 sq. mm (45 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos.  | 9.000   | 881.19    | 7,930.71     |
| 27.2                | 4 X 70 sq. mm (36 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Nos.  | 4.000   | 672.75    | 2,691.00     |
| 27.4                | 4 X25 sq. mm (28 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nos.  | 6.000   | 452.81    | 2,716.86     |
| 27.3                | 4 X35 sq. mm (28 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nos.  | 5.000   | 531.88    | 2,659.40     |
| 29                  | Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |         |           |              |
| 29.1                | 90 mm dia (OD-90 mm & ID-76 mm nominal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Metre | 100.000 | 244.38    | 24,438.00    |
| 29.2                | Supplying, installation, testing and commissioning of Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight (Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.                                                                                                                                                                                                                                                                                                            | Each  | 50.000  | 15,233.19 | 7,61,659.50  |
| 30                  | Supply, Installation, Testing and Commissioning of 1200mm sweep, BEE 5 star rated, ceiling fan with Brush less direct current (BLDC) motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, power factor not less than 0.9, service value (CMM/W) minimum 6.85, oir delivery minimum 215 cmm, 350 RPM (tolerance as per IS : 374-2019), THD less than 10% remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C(max.), insulation resistance more than 2 mega ohm, suitable for 230 v, 50 Hz, single phase AC Supply, earthing etc. complete as required. | Nos.  | 50.000  | 3,924.38  | 1,96,219.00  |
| 31                  | Providing earthing system with maintenance free earthing electrode of 50 mm dia & 3 mtr long of dual electrode technology filled with highly conductive compound and back fill compound of 2 nos. 25 kg bag, terminal size 32mmx 6mm including accessories with masonry enclosure of CI cover plate size 12"x 12" having locking arrangement including CC works etc as required:-                                                                                                                                                                                                                                                                                                                                                     | Each  | 10.000  | 9,350.36  | 93,503.60    |
| Total of Schedule D |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |         |           | 40,61,298.31 |



**SCHEDULE E: BILL OF QUANTITIES NDSR ELECTRICAL**

| S.No. | Item description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unit | Quantity | Rate(INR) | Amount(INR) |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| 1     | Supplying, fixing, connecting, testing and commissioning of following rating, ISI marked (IS 8828) 240 / 415 volts, 10 KA, Miniature Circuit Breaker (MCB) of single / double / three / four poles in the existing MCB DB or in existing MS enclosure complete in all respects.                                                                                                                                                                                                                                                                                                                   |      |          |           |             |
| 1.1   | 63Amp. 10kA TPN/FP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each | 6.000    | 2,294.43  | 13,766.57   |
| 2     | 12/15w LED Recessed Downlighter with a nominal system lumen output of latest/std. lumens and a minimum system efficacy of 110 lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70. The luminaire should have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 rating with THD<10% and PF > 0.9. The luminaire housing should made of pressure die cast aluminium and the luminaire optics shall have a high efficiency diffuser with more than 85% transmittance. The total power consumption should not exceed 13.5W (including driver). | Each | 30.000   | 1,854.06  | 55,621.68   |
| 3     | Surface or wall mounted (2 X 20W) & latest/Std. Lumens LED Tube Rod with extruded aluminium housing with inbuilt controller and robust consction complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                            | Each | 100.000  | 5,703.41  | 5,70,340.74 |
| 4     | Supply of 9/10W LED (mirror light) 2ft Batten with a nominal system lumen output of 1150 lumens and a minimum system efficacy of 115 lm/W. The luminaire shall have a rated system lifetime of 25,000 burning hours at L70. The luminaire should have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 rating with THD < 20% and PF > 0.9. The luminaire housing should made of CRCA with a PC glossy diffuser. The total power consumption should not exceed 10W (including driver).                                                                                       | Each | 12.000   | 2,566.23  | 30,794.81   |
| 5     | Wall Mounted 9/10 W LED BULK Head light complete with in all respects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos. | 25.000   | 829.69    | 20,742.28   |
| 6     | Supplying of following sizes heavy duty exhaust fan with frame and with louvers/shutters suitable for operation on 220/230 volt, 50 Hz, AC supply etc as required.                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |           |             |
|       | 300 mm sweep 900/1400 RPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nos. | 20.000   | 3,168.03  | 63,360.58   |
| 7     | Supplying and laying of following size LT UG cables of aluminium conductor armoured cable XLPE of PVC insulated Power cable of 1.1 KV grade confirming to IS : 7098 - Part-I (duly ISI Marked) as required in DWC HDPE pipe of size 90 mm dia (OD-90 mm & ID-76 mm nominal) ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.                                                                                                                 |      |          |           |             |
|       | 4X 150 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr  | 600.000  | 1,096.38  | 6,57,829.05 |
|       | 4 X 120 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mtr  | 860.000  | 859.29    | 7,38,985.71 |
|       | 4 X 70 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr  | 250.000  | 613.34    | 1,53,334.47 |
|       | 4 X 35 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr  | 225.000  | 376.95    | 84,813.46   |
|       | 4 X 25 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr  | 200.000  | 318.74    | 63,748.25   |
|       | 4 X 16 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr  | 150.000  | 181.61    | 27,240.85   |
|       | 2 X 10 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr  | 200.000  | 122.26    | 24,452.20   |



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|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |         |              |              |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|--------------|--------------|
| 8    | SITC of 2.0 TR Airconditioning device, inverter Technology, 5 star rating incl. piping and all fittings and stabilizers etc complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nos. | 5.000   | 1,00,892.84  | 5,04,464.21  |
| 9    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |         |              |              |
| 9    | Providing and fixing fire extinguisher of carbon dioxide type consisting of brand new high pressure steel cylinder bearing IS: 7285 mark and having the approval of controller of explosives Nagpur, wheel type valve bearing IS:3224 mark internal discharge tube, 1 meter long high pressure discharge hose, non conducting horn, suspension bracket, fully charged bearing IS: making fixed to wall as directed conforming IS : 15683:2006                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |         |              |              |
| 9.1  | 4.5kg capacity cylinder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos. | 10.000  | 5,934.88     | 59,348.75    |
| 10   | Supply and Fixing of shock treatment chart written in English, Hindi and Local Language duly framed in Glass as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nos. | 2.000   | 1,186.98     | 2,373.96     |
| 11   | Supply and Fixing of First Aid Box as approved by Red Cross (Standard Kit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nos. | 4.000   | 2,373.96     | 9,495.82     |
| 12   | Supply, Installation, Testing and Commissioning of Microprocessor based UPS systems 2X20kVA at 0.9PF true online double conversion UPS using PWM IGBT Technology or latest technology , three phase input ,430 volt +10% -15% and input frequency 50Hz +5% -5% , 3 phase output ,fixed setting at 380-415 and 430 volt.UPS operating in parallel redundancy mode required as per technical specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Nos. | 1.000   | 10,35,580.72 | 10,35,580.72 |
| 13   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |         |              |              |
| 13.1 | Supply, installation, testing and commissioning of 5 LB capacity Novec 1230, DLP Assembly with automatic valve, push in connector for tube, 5 LB Novec 1230 gas, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each | 2.000   | 1,67,692.21  | 3,35,384.41  |
| 13.2 | Supply, installation, testing and commissioning of Fire Linear pneumatic heat Detection Tube with all necessary fittings & supports.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mtrs | 150.000 | 2,930.64     | 4,39,595.43  |
| 13.3 | Supply, installation, testing and commissioning of Master Control Unit for controlling each system, complete with pressure switches, buzzers and electronic hooters, Audio Visual Alarm including all necessary accessories + electrical wiring to make each entire system functional.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Each | 2.000   | 4,823.87     | 9,647.74     |
| 13.4 | Supply, installation, testing and commissioning of Discharge Hose With Two Nozzle Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each | 2.000   | 13,219.34    | 26,438.68    |
| 14   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |         |              |              |
| 14.1 | Description: Supply, fitting, fixing, installation and commissioning of 20 KWp capacity of solar on grid power plant. Contents:- 1.20Kwp solar power PV & solar power conditioning unit 2-GI module mounting structure. 3-Lightening Arrestors, Earthing etc. 4-Connecting wires, MCB's, cabling pipe, accessories, etc. as required. 5-Civil works for installation of Module mounting structure including sand, gravels, cement etc. 6- Electrical works for distribution of Loads from PCU . 7-Transportation Up to the destination. 8- Installation & commissioning included. 9- Insurance & Five year CAMC. The work to be executed as per direction of engineer in charge at site. If any other items have been omitted but required for efficient working of solar power plant it would be responsibility of contractor to supply and provide such items. However the quoted rate shall be inclusive of those items. | set  | 1.000   | 9,81,179.52  | 9,81,179.52  |



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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------------|---------------------|
| 14.2                       | Description: Supply, fitting, fixing, installation and commissioning of 15 KWp capacity of solar on grid power plant. Contents:- 1. 15Kwp solar power PV & solar power conditioning unit 2-GI module mounting structure. 3-Lightening Arrestors, Earthing etc. 4-Connecting wires, MCB's, cabling pipe, accessories, etc. as required. 5-Civil works for installation of Module mounting structure including sand, gravels, cement etc. 6- Electrical works for distribution of Loads from PCU . 7-Transportation Up to the destination. 8-Installation & commissioning included. 9- Insurance & Five year CAMC. The work to be executed as per direction of engineer in charge at site. If any other items have been omitted but required for efficient working of solar power plant it would be responsibility of contractor to supply and provide such items. However the quoted rate shall be inclusive of those items.                          | set | 1.000 | 7,35,884.64 | 7,35,884.64         |
| 14.3                       | Description: Supply, fitting, fixing, installation and commissioning of 10 KWp capacity of solar on grid power plant. Contents:- 1. 10Kwp solar power PV & solar power conditioning unit 2-GI module mounting structure. 3-Lightening Arrestors, Earthing etc. 4-Connecting wires, MCB's, cabling pipe, accessories, etc. as required. 5-Civil works for installation of Module mounting structure including sand, gravels, cement etc. 6- Electrical works for distribution of Loads from PCU . 7-Transportation Up to the destination. 8-Installation & commissioning included. 9- Insurance & Five-year CAMC. The work to be executed as per the direction of the engineer in charge at the site. If any other items have been omitted but required for efficient working of the solar power plant it would be the responsibility of the contractor to supply and provide such items. However, the quoted rate shall be inclusive of those items. | set | 2.000 | 4,90,589.76 | 9,81,179.52         |
| <b>Total of Schedule E</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |       |             | <b>76,25,604.05</b> |



16/10



**SCHEDULE F: BILL OF QUANTITIES FIRE ALARM DETECTION SYSTEM**

| Sl. No | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QTY    | RATE (INR)  | AMOUNT (INR) |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-------------|--------------|
| 1.0    | Supplying, installing, testing and commissioning approved make Microprocessor based Multi-loop, Networkable Addressable Fire Alarm Control Panel with minimum 600 characters LCD display, 4000 trouble events including 1000 alarm log history events,, QWERTY keypad for programming. The panel should be equipped with sufficient numbers of loops considering 20% spare capacity in each loop and shall be extendable upto 10 Loops. Each loop shall have a capacity of minimum 125 detectors & 125 other devices exculding 20% spare. In case of CPU failure,the panel shall work in degrade mode to detect & activate voice alarm system during a fire situation. Products not having this feature may offer Redundant CPU, Four access levels, flash EPROM, 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 48 hours normal working and 30 mins in alarm condition with the charging capacity of 200AH. The panel shall be compatible with Integrated 8 channel Digital Voice Evacuation System Controller capable of broadcasting Evacuation Messages and 2 ways Communication Fire Fighters System capable of supervising all the speaker circuits with adequate zone control and accessories. Failure of Fire Panel CPU shall not result in failure of Voice Alarm & Evacuation system(VAS).Products not having this feature must provide dedicated CPU for VAS. The VAS should be having a distributed architecture, with Amplifiers placed on the floors.The panel shall be capable of self programing without any dependancy on dongle. The detection system shall have capability to support UL listed wireless mesh technology and shall have provision to work in hybrid mode. Quoted rate shall include supply of necessary software & hardware for programming the panel & all field devices with all necessary licence. The panel shall be capable for remote accessibility on a mobile app through cloud platform/solution. UL864 10th Edition Listed & FM approved. <b>Makes: Edwards, Notifier, Simplex</b> |      |        |             |              |
| 1.1    | 2 loop panel expandable upto 10 loop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nos  | 1,000  | 4,23,742.80 | 4,23,742.80  |
| 2.0    | Supply, installation, testing and commissioning addressable wireless mesh network supported multi-criteria photo-thermal detector with sensitivity range of 2.62 %/ft to 3.74 %/ft obs. Intelligent multi criteria detection device shall include the ability to combine signal of the thermal sensor with photoelectric signal in an effort to react hastily in the event of a fire situation. Detector shall be able to distinguish between a fire and a false alarm condition. The detector shall have twin bi-color LED for 360 deg viewing. UL268 & UL521, 7th Edition listed for detector including base ( <b>Below False Ceiling</b> ). <b>Makes: Edwards, Notifier, Simplex</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Nos  | 2,000  | 7,845.50    | 15,691.00    |
| 3.0    | Supply, installation, testing and commissioning addressable gateway to connect wireless detectors in mesh , the gateway shall have provision to power up through SLC or external 24VDC, operates Operates in 865-867 MHz frequency , supports redundant communication paths that has been approved for Class A, <b>Makes: Edwards, Notifier, Simplex</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nos  | 1,000  | 1,11,150.00 | 1,11,150.00  |
| 4.0    | Supply, installation, testing and commissioning addressable multi-criteria photo-thermal detector with sensitivity range of 0.5 to 4.0% obs/ft. Intelligent multi criteria detection device shall include the ability to combine signal of the thermal sensor with photoelectric signal in an effort to react hastily in the event of a fire situation. Detector shall be able to distinguish between a fire and a false alarm condition. The detector shall have twin bi-color LED for 360 deg viewing. UL268, 7th Edition listed & FM approved- for detector & base ( <b>Above False Ceiling</b> ). <b>Makes: Edwards, Notifier, Simplex</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  | 59,000 | 3,272.10    | 1,93,053.90  |
| 5.0    | Supply, installation, testing and commissioning addressable multi-criteria photo-thermal detector with sensitivity range of 0.5 to 4.0% obs/ft. Intelligent multi criteria detection device shall include the ability to combine signal of the thermal sensor with photoelectric signal in an effort to react hastily in the event of a fire situation. Detector shall be able to distinguish between a fire and a false alarm condition. The detector shall have twin bi-color LED for 360 deg viewing. UL268, 7th Edition listed & FM approved- for detector & base ( <b>Below False Ceiling</b> ). <b>Makes: Edwards, Notifier, Simplex</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  | 29,000 | 3,272.10    | 94,890.90    |



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|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |          |                            |                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|----------------------------|---------------------|
| 6.0  | Supplying, installing, testing and commissioning approved make <b>Isolator Module</b> for Isolating short / de-wired / loose circuits with automatic resetting arrangement. The device shall have an LED which shall blink in normal state & get steady on activation to monitor the health status of the device. The Isolator module should not consume an address in the SLC loop. Module shall be supplied with mounting plate from OEM for ease of installation & maintenance. UL Listed & FM approved <b>Makes: Edwards, Notifier, Simplex</b>                                                                                     | Nos | 5,000    | 3,682.90                   | 18,414.50           |
| 7.0  | Supplying, installing, testing and commissioning approved make Addressable <b>Control Module</b> for Sounders / Strobes / Sounder cum Strobes. The control module shall provide supervised NAC output rated at 24v DC, 2A. The device shall have an LED which shall blink in normal state & get steady on activation to monitor the health status of the device. Addressing shall be with user friendly rotary decimal switches. Module shall be supplied with mounting plate from OEM for ease of installation & maintenance. UL Listed & FM approved <b>Makes: Edwards, Notifier, Simplex</b>                                         | Nos | 4,000    | 4,439.50                   | 17,758.00           |
| 8.0  | Supplying, installing, testing and commissioning approved make Addressable <b>Relay Module</b> for AHU, Access Control, Lifts, Staircase Pressurization, Fire Suppression & other Third Party Outputs. The relay module shall provide contact rated at 24v DC, 2A. The device shall have an LED which shall blink in normal state & get steady on activation to monitor the health status of the device. Addressing shall be with user friendly rotary decimal switches. Module shall be supplied with mounting plate from OEM for ease of installation & maintenance. UL Listed & FM approved <b>Makes: Edwards, Notifier, Simplex</b> | Nos | 2,000    | 4,439.50                   | 8,879.00            |
| 9.0  | Supply, installation, testing & commissioning of PVC insulated, PVC sheathed <b>armored 2C x 1.5 sq.mm copper ZHLS</b> (zero halogen low smoke) cable referring to IS: 1554 part-I. Cable shall be rated for a voltage rating of 650/1100 Volts & insulated with suitably compounded PVC. Cables shall be properly supported to ceiling through suitable clamps/saddles at an interval of 300mm. Cables shall be measured on the basis of linear measurements from gland to gland. Colour code of cable shall be "RED". <b>Makes: Edwards, Notifier, Simplex</b>                                                                        | Rmt | 1200.000 | 310.00                     | 3,72,000.00         |
| 10.0 | Supply, installation, testing & commissioning of <b>end termination</b> of above cable to junction boxes using single compression brass type cable glands & pin type tinned copper lugs. <b>Makes: Edwards, Notifier, Simplex</b>                                                                                                                                                                                                                                                                                                                                                                                                       | Nos | 210.000  | 1,625.00                   | 3,41,250.00         |
| 11.0 | Supply, installation, testing & commissioning of Sounder cum Strobe rated at 84 dBA @ 3m for Audible annunciation and 115cd flashing at 1 Hz for visual indication. UL Listed <b>Makes: Edwards, Notifier, Simplex</b>                                                                                                                                                                                                                                                                                                                                                                                                                  | Nos | 8,000    | 7,410.00                   | 59,280.00           |
| 12.0 | Supply, installation, testing & commissioning of power supply unit: 24V DC for Notification Appliances. This unit shall be supervised by fire panel through monitor module. Vendor to quote for power supply unit accordingly. <b>Makes- Reputed</b>                                                                                                                                                                                                                                                                                                                                                                                    |     |          |                            |                     |
| 12.1 | 6/10 Amps minimum (Actual capacity of power supply unit shall be based on selection of make & model of hooter cum strobe proposed).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | 8,000    | 11,550.00                  | 92,400.00           |
| 13.0 | Supplying, installing, testing and commissioning approved make Addressable Manual Call Point ( Break Glass Type). The device shall have an LED which shall blink in normal state & get steady on activation to monitor the health status of the device. The device shall comply UL approval. <b>Makes: Edwards, Notifier, Simplex</b>                                                                                                                                                                                                                                                                                                   | Nos | 8,000    | 3,432.00                   | 27,456.00           |
| 14.0 | Supply, installation, testing & commissioning of FRLS PVC Conduits of 2mm thick on ceiling / wall / floor etc. complete with accessories like, junction boxes, collars, bends etc. Quoted rate shall include necessary supports required for installation. <b>Makes: Polycab, Precision, Asirwad</b>                                                                                                                                                                                                                                                                                                                                    |     |          |                            |                     |
| 14.1 | 20mm dia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rmt | 1200.000 | 188.00                     | 2,25,600.00         |
| 15.0 | Supply, installation, testing & commissioning of 100x100x50 mm MS junction box made of 16SWG CRCA sheet duly painted with 2 coats of red oxide and 2 coats of enamel paint, each side cable knot of 20mm dia for cable termination.                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | 210.000  | 975.00                     | 2,04,750.00         |
| 16.0 | Supply, installation, testing & commissioning of response indicators for above ceiling detectors. <b>Makes: Honeywell, ASES, Agni</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Nos | 59,000   | 90.00                      | 5,310.00            |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |          | <b>Total of Schedule F</b> | <b>22,11,626.10</b> |



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