

| INSTITUTE FOR PLASMA RESEARCH                                                                                                            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
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| NEAR INDIRA BRIDGE, BHAT, GANDHINAGAR –382 428 (INDIA)                                                                                   |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| PRICE BID                                                                                                                                |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| Name of work: Construction of Neutronics Laboratory Building and allied works at Institute for Plasma Research (IPR), Bhat, Gandhinagar. |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| IPR Tender Notice No : IPR/TN/CIVIL-PR/Two Bid/09/2016 dated 04.04.2016                                                                  |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| From                                                                                                                                     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| Name of the Contractor:                                                                                                                  |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| Offer No. & Date:                                                                                                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| SR #                                                                                                                                     | Abbreviation | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
| 1                                                                                                                                        | Cum          | Cubic Meter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
| 2                                                                                                                                        | Sqm          | Square meter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |             |               |                  |
| 3                                                                                                                                        | Rmt          | Running Meter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
| 4                                                                                                                                        | MT           | Metric Tonne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |             |               |                  |
| 5                                                                                                                                        | No.          | Numbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               |                  |
| 6                                                                                                                                        | Each         | Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
| 7                                                                                                                                        | KG           | Kilogram                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               |                  |
| 8                                                                                                                                        | Pair         | Pair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
| 9                                                                                                                                        | Job          | Job                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |             |               |                  |
| Note : All the below items shall be for all civil, plumbing, electrical & infrastructure works.                                          |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| SL. No                                                                                                                                   | ITEM NO.     | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|                                                                                                                                          |              | <b>I - CIVIL WORKS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               |                  |
|                                                                                                                                          |              | <b>SECTION A - DEMOLITION &amp; DISMANTLING WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               |                  |
| 1                                                                                                                                        | A01          | Dismantling of flexible pavement and subbase (existing tar road, subbase and all elements below subbase of pavement) by mechanical means or manual means including stacking of serviceable materials in Institute campus and disposal of unserviceable materials out side Institute campus all as per specification & direction of Engineer-in-charge. <b>Contractor will be solely responsible for finding out non objectionable place for dumping, disposing, storing of unusable (unserviceable) materials out side campus and taking all precautions for not to damage any surroundings and carry out the dismantling and demolition work with proper safety precautions.</b> All materials should be stacked at place as suggested by EIC. (Engineer-In-Charge decision regarding useful (serviceable) or unusable (unserviceable) materials shall be final and binding.)          | Cum  | 40       |             | -             |                  |
|                                                                                                                                          |              | <b>SUB TOTAL OF - A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               | <b>0.00</b>      |
|                                                                                                                                          |              | <b>SECTION B - EARTH WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
|                                                                                                                                          |              | <b>NOTES FOR EXCAVATION &amp; RELATED ITEMS:</b><br>No working space shall be considered beyond the width of the foundation concrete (width of PCC) shown in the drawings. The quoted rate should be inclusive of required working space, dewatering (if required), shoring & sturting (if required). The quoted rate shall include the quantity of earth work to be done for working space and also for re-filling in the foundation and plinth. For payment, the measurement shall be restricted only to the foundation width (width of PCC ) shown in the drawings. No extra shall be permitted and measured for payment on account of working space / battering / benching for excavation and refilling in foundation & plinth or as directed by the EIC.                                                                                                                           |      |          |             |               |                  |
| 2                                                                                                                                        | B02          | <b>Clearing of the site</b> and roughly dressing the same using mechanical means or manual means, including removal of the roots, vegetation, grass, brush wood, <b>trees up to girth of 30 cm measured at 1.00 m above ground level</b> , sapling of girth, rubbish and disposing the same outside the Institute Campus. The Constructor is solely responsible to find out unobjectionable place out side institute campus                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sqm  | 615      |             | -             |                  |
| 3                                                                                                                                        | B03          | Earth work in <b>Excavation up to 1.5 m depth from Natural Ground Level</b> by mechanical means (Hydraulic Excavator) or manual means for FOUNDATION TRENCHES, etc. in ALL KINDS OF SOILS for lead upto 1 km and all lifts including dressing of sides, ramming of bottom, disposing the surplus excavated materials within Institute campus all as per specification for lead up to 1 km and all lifts, etc..<br><b>Note : Disposed soil to be levelled by breaking clods (if any) and neatly dressed and compacted. The quoted rate should be inclusive of Refilling in foundation and plinth in layers not exceeding 15cm depth consolidating each deposited layer by ramming , watering and dressing , etc. as directed by the EIC. The quoted rate should be inclusive of shoring &amp; sturting (if required), dewatering (if required) and compaction of refilling.</b>          | Cum  | 811      |             | -             |                  |
| 4                                                                                                                                        | B04          | Earth work in <b>Excavation from 1.5 m to 3.00 m depth from Natural Ground Level</b> by mechanical means (Hydraulic Excavator) or manual means for FOUNDATION TRENCHES, etc. in ALL KINDS OF SOILS for lead upto 1 km and all lifts including dressing of sides, ramming of bottom, disposing the surplus excavated materials within Institute campus all as per specification for lead up to 1 km and all lifts, etc..<br><b>Note : Disposed soil to be levelled by breaking clods (if any) and neatly dressed and compacted. The quoted rate should be inclusive of Refilling in foundation and plinth in layers not exceeding 15cm depth consolidating each deposited layer by ramming , watering and dressing , etc. as directed by the EIC. The quoted rate should be inclusive of shoring &amp; sturting (if required), dewatering (if required) and compaction of refilling.</b> | Cum  | 639      |             | -             |                  |
| 5                                                                                                                                        | B05          | Earth work in <b>Excavation from 3.0 m to 5.00 m depth from Natural Ground Level</b> by mechanical means (Hydraulic Excavator) or manual means for FOUNDATION TRENCHES, etc. in ALL KINDS OF SOILS for lead upto 1 km and all lifts including dressing of sides, ramming of bottom, disposing the surplus excavated materials within Institute campus all as per specification for lead up to 1 km and all lifts, etc..<br><b>Note : Disposed soil to be levelled by breaking clods (if any) and neatly dressed and compacted. The quoted rate should be inclusive of Refilling in foundation and plinth in layers not exceeding 15cm depth consolidating each deposited layer by ramming , watering and dressing , etc. as directed by the EIC. The quoted rate should be inclusive of shoring &amp; sturting (if required), dewatering (if required) and compaction of refilling.</b> | Cum  | 495      |             | -             |                  |
| 6                                                                                                                                        | B08          | Providing & Filling in foundation and plinth (under floors, general development) with <b>good quality coarse river sand</b> obtained from outside, including watering, ramming well, consolidating and dressing etc. complete all as per specification, drawing and directions of engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cum  | 67       |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
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| 7      | B09      | <p><b>Providing and injecting Chemical emulsion for pre constructional anti-termite treatment</b> for all types of structure with / without basement with RCC foundation/ RCC wall or with load bearing walled foundation or developing areas tree pits, water body etc. all as per specifications. The chemical used shall be <b>chloropyriphos (1:19) of M/s HILBAN or Dursban TC</b> all as per latest IS code no 6313 (Part II) . Plinth area of Building in plan at Ground Floor shall only be measured and paid. <b>A guarantee bond of 10 years shall be furnished.</b> Rate shall be inclusive of material required for Anti Termite Treatment and labour for applying.</p> <p>a) Bottom surface and the sides of the excavation made for masonry foundations at the rate of 4 liters/ of surface area (wherever applicable).</p> <p>b) At the rate of 7.5 liter/ Sqm of surface area to the backfill at the depth of 500mm below the original ground level. The soil in the immediate contact with the vertical surface of RCC column shall be treated.</p> <p>c) Top surface of the plinth filling at the rate of 5 liter/Sqm of internal plinth area etc. complete.</p> <p>d) Internal vertical surface from original Ground level to top of the earth filled in the plinth at the rate of 7.5 liter/Sqm of surface area in contact.</p> <p>e) at the rate of 7.5 liter/ Sqm to the external vertical surface below finished Ground level to the full depth of the filling complete by injecting chemical after drilling the holes of 12 to 15mm dia, with depths of approx. 300 to 600 mm and at 150mm centre to centre and as close to the wall as possible.</p> <p>f) All holes for electrical data, water supply, drainage etc. shall be treated.</p> <p>Complete all as per direction of engineer in charge.</p> | Sqm  | 851      |             | -             |                  |
|        |          | <b>SUB TOTAL OF - B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION C - CONCRETE WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        |          | <p><b>NOTES FOR CONCRETE &amp; RELATED ITEMS:</b></p> <p>1. All concrete produced shall be machine mixed for all type of concrete.</p> <p>2. All formwork should be rigid &amp; water tight using best quality of ordinary shuttering ply / steel plates with supporting system of MS adjustable steel props / spans / frames for any shapes, sizes, planes including strutting, propping, bracing, staging etc., complete to give smooth &amp; fair finish.</p> <p>3. Only coarse River sand to be used in all concrete works.</p> <p><b>ADDITIONAL NOTES FOR MASS CONCRETING FOR WALLS ABOVE 450MM THICK.</b></p> <p>1). Contractor must refer all necessary specifications of optimum mix of concrete subject to radioactive shield and for heavy section of mass concrete mentioned in above detailed item specifications.</p> <p>2). Concreting in wall shall be done only upto 1m height in single lift.</p> <p>3). Temperature of fresh concrete must be maintained in between 10 to 20 degree celcius.</p> <p>4). External curing must be done upto minimum 15 days.</p> <p>5). All aggregates must be precooled with water having temperature not more than 20 degree celcius.</p> <p>6). All necessary inserts &amp; pipes shall be provided in the walls as clients requirements &amp; detailed in the drawings.</p> <p>7). Minimum 4 days gap shall be maintained between two lifts of concrete / lifts.</p> <p>8). Curing agent of any approved manufacturing agency shall be used as per supplier's instructions.</p> <p>9). Shuttering shall be removed only after 24 hours &amp; before 36 hours or as per IS.</p> <p>10). Construction joint shall be prepared as per drawings.</p>                                                                                                                             |      |          |             |               |                  |
| 8      | C02      | <p>Providing and laying <b>Plain cement concrete in 1:4:8</b> in foundation and plinth / sub base to the floors using 40mm / 20 mm nominal size graded hard stone aggregate obtained from approved quarry in <b>required thickness</b> including compaction, finishing top surface to level, curing, cost of formwork <b>(if required)</b>, etc., complete as per specifications. Mix ratio specified is for (cement:coarse sand:graded stone aggregate).</p> <p><b>Note: Only Coarse river sand shall be used in all PCC works or as directed by the EIC</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cum  | 183      |             | -             |                  |
|        |          | <p><b>NOTE for Ready Mix Concrete</b></p> <p>1) Ready Mixed Concrete should be <b>from reputed manufacturers like ACC, LAFARGE, Ultra Tech, Ready mix, Contractor has to obtain prior approval of EIC with respect to supplier of RMC.</b></p> <p>2) Cement to be used for RMC shall be OPC 53 grade which will not be issued by the department. Cement content should comply to IS 12269 or as per approved design mix adopted by the contractor having the required water cement ratio in adherence to the relevant codal values.</p> <p>3) Rate to include the transportation in transit mixers with all leads from RMC plant to the place of work and pumping of concrete to any height and the rate shall be for all leads.</p> <p>4) Cement concrete delivered at site should be workable and should satisfy all the required standard tests like cube test and slump test etc., as specified in code of practice. Sample taken at site only will be deciding factor.</p> <p>5) Department will not have any direct contact in matters relating to payment, delivery schedule, quality of concrete etc. It is the responsibility of contractor to ensure proper co-ordination for the timely supply of concrete and approved quality product.</p> <p>6) Contractor has to make arrangement for proper approach road (for which nothing extra shall be paid for) to enable the vehicle carrying concrete to move freely without any extra cost to the department before ordering the concrete. However existing approach road may be made use of for this purpose.</p> <p>7) Contractor has to ensure proper strong shuttering / centering to receive the concrete at all heights.</p>                                                                                                                                      |      |          |             |               |                  |
|        |          | <p>8) Contractor has to indemnify the Department against claims arising out of possible dispute with the manufacturers.</p> <p>9) The design mix of RMC of the manufacturer / supplier of RMC has to be obtained well in time and approval of EIC to be obtained prior to use. The design mix should be based on latest IS 456/ IS 10262. This approval has to be obtained whenever the design mix is changed. The RMC should be supplied confirming to the approved design mix which shall be continuously checked during the progress of work. All the quality checks as per IS stipulations should be scrupulously followed during the concreting. The work shall be carried out at all heights.</p> <p>10) Fly ash mixing is not permitted</p> <p>11) Laid RMC will be accepted by EIC based on criteria as per 456 which will be based on test results of concrete cube specimen taken at site.</p> <p>12) The rate quoted shall also include refinishing the top of slab surface (delayed finish) as per the specifications of RMC Manufacturer.</p> <p>13). The contractor shall have to submit pouring sequence of concrete to avoid cold joints. The contractor shall in his method statement demonstrate limit temperature differential between hottest and coolest position in the concrete to less than 20 degrees by means of adequate thermal insulation of exposed surface throughout the curing period. Curing agent shall be applied on exposed surfaces as early as possible within 3-4 hours of concreting so as to avoid any cracks due to shrinkage.</p>                                                                                                                                                                                                                                                    |      |          |             |               |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
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|        |          | <p>Providing and laying <b>Ready Mixed Concrete</b> grade machine batched by weight, machine mixed as per the design mix standards in the Ready Mix Plant and transported to the place of work <b>for ALL WORKS such as Raft/ pedestal / Beams / Columns / Foundations/ Retaining walls etc for all RCC works for any size and shape, below ground level upto plinth level at all levels / at all depths.</b> The concrete to be made using graded hard stone aggregates of maximum 20mm nominal (down graded) size obtained from approved quarry including fine aggregates conforming to latest IS 383 and cement all as per the design mix proportions conforming to relevant IS with minimum cement content for durability including supplying and providing concrete cover blocks etc; which shall be followed as per latest IS 456 including pumping to all heights, placing, spreading, vibrating, compaction, finishing to required levels, curing, etc., complete all as per specifications but excluding cost of formwork and steel reinforcementRate to include charges for providing &amp; mixing water proofing compound, if any specified, and labour for keeping embedments if any wherever required while casting. The work shall be carriedout at all heights. Rate also to include lift charges and scaffolding for all floors /heights/ all levels from FFL/GL.</p> <p><b>Note: Admixtures are permitted as per relevant IS code. The quoted rate includes the cost of admixtures &amp; superplasticizers etc. OPC Cement shall be used. Fly Ash mixing is not permitted.</b></p>       |      |          |             |               |                  |
| 9      | C03      | As above By using <b>RMC M-25 grade</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cum  | 931      |             | -             |                  |
|        |          | <p>Providing and laying <b>Ready Mixed Concrete</b> grade machine batched by weight, machine mixed as per the design mix standards in the Ready Mix Plant and transported to the place of work <b>for ALL WORKS such as Slabs / Beams / Columns / Flooring / Coping/ Lintel, etc for all RCC works for any size and shape ,for Superstructure above plinth level for all floors / at all levels / at all heights</b> The concrete to be made using graded hard stone aggregates of maximum 20mm nominal (down graded) size obtained from approved quarry including fine aggregates conforming to latest IS 383 and cement all as per the design mix proportions conforming to relevant IS with minimum cement content for durability including supplying and providing concrete cover blocks etc; which shall be followed as per latest IS 456 including pumping to all heights, placing, spreading, vibrating, compaction, finishing to required levels, curing, etc., complete all as per specifications but excluding cost of formwork and steel reinforcementRate to include charges for providing &amp; mixing water proofing compound, if any specified, and labour for keeping embedments if any wherever required while casting. The work shall be carriedout at all heights. Rate also to include lift charges and scaffolding for all floors /heights/ all levels from FFL/GL.</p> <p><b>Note: Admixtures are permitted as per relevant IS code. The quoted rate includes the cost of admixtures &amp; superplasticizers etc. OPC Cement shall be used. Fly Ash mixing is not permitted</b></p> |      |          |             |               |                  |
| 10     | C04      | As above by using <b>RMC M-20 grade</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cum  | 78       |             | -             |                  |
| 11     | C05      | As above By using <b>RMC M-25 grade</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cum  | 1,551    |             | -             |                  |
| 12     | C06      | Extra for Vaccum Dewatering from concrete for 75mm to 150mm thickness flooring including hire charges for equipment, vibrating the concrete, finishing the concrete with machine trowel, finishing the surface neatly all as per specification. The rate includes all the labour and materials involved for the work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sqm  | 252      |             | -             |                  |
| 13     | C07      | <p><b>Charges for making holes in RCC walls, slabs</b> or any other RCC member of any size by core cutting machine of Hilti / Fischer/ Mungo, including disposing the debris. For all floors/ all heights/all level. and complete as directed by EIC.</p> <p>Note:Measurement will be taken for the depth of holes in running meter for specified diameter. For disposal of the debris specification of relevant items shall be followed.</p> <p><b>a)For cutout holes upto 100mm dia</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rmt  | 3        |             | -             |                  |
| 14     | C08      | b) As above for diameter from 101mm to 150mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  | 3        |             | -             |                  |
|        |          | <b>SUB TOTAL OF - C</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION D - FORM WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |             |               |                  |
| 15     | D01      | <p>Providing <b>rigid and water tight centering and shuttering</b> using best quality wood / plywood / steel forms and centering with steel props, acrotubes, acrospans, etc. including strutting, propping, bracing, staging etc. complete for all RCC items fixed in position as required including labour for careful removal of form work etc. complete all as per specifications at all heights/all levels /all floors (for foundation and up to plinth and superstrucure works) for <b>Horizontal / Vertical / Circular / slanting</b> surfaces all as per specifications.</p> <p><b>Note:The quoted rate should be inclusive of providing &amp; applying mould release agent ("Reebol" of Fosroc make),, binding wire, spacers, cover blocks, sleeves, cut out of required size &amp; shape etc.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sqm  | 4,130    |             | -             |                  |
| 16     | D02      | <p><b>Extra over</b> specification item no. D01 for providing everything necessary for special <b>formwork and supports for casting 1.8m thick RCC Wall for all heights upto 9.0m height from floor level.</b></p> <p><b>Note: floor level means the floor from which supports has been provided.</b></p> <p><b>Case 1</b> - Contractor if willing to use customized designed formwork then the formwork design should be got prepared and certified by the structural consultants and in</p> <p><b>Case 2</b> - If contractor is willing to procure and use readymade formwork manufactured by agency then even in that case the information or details should be got certified by the structural consultants. In either of the case nothing shall be paid extra to the contractor. <b>Item rate quoted should all be inclusive of all.</b> Contractor will have to submit all relevant information and details to the Institute well before execution. <b>The responsibility for executing the work in safe and sound manner with appropriate use of tools, machinery, methodology and delivering work in best workmanship like manner, in line and level will be sole responsibility of the contractor.</b></p>                                                                                                                                                                                                                                                                                                                                                                                        | Sqm  | 2,418    |             | -             |                  |
| 17     | D03      | <p><b>Extra over</b> specificaion item no D01 but for providing everything necessary for special <b>formwork and supports for casting 0.5m thick. RCC Slab for all heights upto 9.0m height from floor level.</b></p> <p><b>Note: floor level means the floor from which supports has been provided.</b></p> <p><b>Case 1</b> - Contractor if willing to use customized designed formwork then the formwork design should be got prepared and certified by the structural consultants and in</p> <p><b>Case 2</b> - If contractor is willing to procure and use readymade formwork manufactured by agency then even in that case the information or details should be got certified by the structural consultants. In either of the case nothing shall be paid extra to the contractor. <b>Item rate quoted should all be inclusive of all.</b> Contractor will have to submit all relevant information and details to the Institute well before execution. <b>The responsibility for executing the work in safe and sound manner with appropriate use of tools, machinery, methodology and delivering work in best workmanship like manner, in line and level will be sole responsibility of the contractor.</b></p>                                                                                                                                                                                                                                                                                                                                                                                     | Sqm  | 310      |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
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| 18     | D04      | Extra for additional height above 4.5m from floor level upto 9.0m height of centering, shuttering wherever required with adequate bracing, propping with steel props, acrotubes, H-Frames, etc., including cost of de-shuttering and decentering at all levels, for suspended floors, roofs, landing, beams and balconies and Slabs ; for;<br><b>NOTE:</b><br>1) Plan area to be measured<br>2) Floor height to be taken from finished floor level.<br>3) The quoted rate is for additional height Upto 9.0 mtrs from floor level from where the centering and shuttering has been erected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sqm  | 273      |             | -             |                  |
|        |          | <b>SUB TOTAL OF - D</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION E - REINFORCEMENT &amp; STRUCTURAL STEEL WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
| 19     | E01      | Supplying, fabricating and placing / fixing in position TMT reinforcement bars <b>FE 500 D of Tata / SAIL / VIZAG (RINL) confirming to latest IS-1786 reinforcement</b> for RCC structures / items as per design & drawings including transporting steel to the work site, handling, decoiling, cutting, bending, cranking, fabricating to required shape, placing in position and tying / binding the system with <b>MS 1.00 mm wire with two strands wires, welding (if necessary)</b> , keeping it in position during concreting by means of stays, blocks, ties, spacers, chairs, hangars, etc. for all floors / all levels / all heights complete as per drawings, specifications. Measurement will be paid on the length and converted into weight by using standard co-efficient (rolling margin's and wastage shall not be paid). The quoted rate should be inclusive of the cost of Binding wire, and the same will NOT be measured and paid separately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MT   | 137      |             | -             |                  |
| 20     | E02      | Supplying, fabricating and erecting in position <b>Structural Steel works ( In R.S. joists / plates / channels / flats / angles / tees / Hollow sections / Pipes and other structural sections, etc.) in Welded or bolted, in built-up sections, trusses, murals and other framed works for main gate &amp; other sections</b> including cutting, hoisting, fixing in position, applying a priming coat of Yellow zinc chromate primer and painting with two coats of synthetic enamel paint of approved colour & shade, etc. complete all as per specifications for all heights / all floors / all levels . The material shall be conforming to relevant IS Standards and Fabrication shall be according to IS. Welding shall be carried out by qualified welders. Electrodes for welding, the procedure, selection, test and inspection shall conform to provisions in IS 816, IS 818, IS 822, and IS 833. Erection/ hoisting shall commence only after passing of fabricated parts by the Engineer -in- charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MT   | 6.00     |             | -             |                  |
|        |          | <b>SUB TOTAL OF - E</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION F - BRICK/STONE MASONARY WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
| 21     | F01      | Providing and laying <b>Brick Work in CM 1:5 (1 cement : 5 coarse sand) in foundation, plinth, superstructure and all works below &amp; above plinth for all levels/ all heights/ all floors using common burnt clay conventional building bricks</b> conforming to IS 1077-1992 having compressive strength not less than 50 Kg/ cm <sup>2</sup> in any width, any shape and all depth including curing, scaffolding, racking / flush jointing etc.all as per drawing, specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cum  | 102      |             | -             |                  |
| 22     | F02      | Providing and laying <b>Autoclave Aerated Concrete Blocks (AAC)</b> / bats as per drawing (Thickness 150 to 350 mm) in single or multiple layers with Fixo bond mortar of ultratech make. Crushing strength of aerated concrete block/ bats shall not be less than 40-50 KG/sqcm, minimum dry density of 550-650 KG/CUM, thermal conductivity 0.16 w/mk, fire resistant 4 hours, in true line level and plumb and cleaning the surface with necessary tool tackles etc. <b>at all floors, all heights, all depths, all levels (in foundation and superstructure)</b> and at all places including curing, scaffolding, racking / flush jointing etc complete, as per drawing / specification and as directed by Engineer Incharge.<br>The rate should be inclusive of providing runner bands at every 1.2m. Runner bands will be measured and paid seperately in relevant tender item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cum  | 248      |             | -             |                  |
| 23     | F03      | Providing and fixing <b>150 mm expansion joint system of make '3R' MSDSZJ (Floor Joints - Horizontal Surface)</b> for all floors / all levels / all heights complete as per drawings, specifications and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical location in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self – centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in- Charge . (Material shall confirm to ASTM 6063.)<br><b>Rates shall also be inclusive of anodizing / powder coating of all exposed aluminium work, all as per manufacturers specifications and approval of EIC. If required, grouting should also be inclusive in the quoted rate. Rates shall also be inclusive of covering seismic joint from bottom for upper floors.</b> | Rmt  | 74       |             | -             |                  |
| 24     | F04      | Providing and fixing <b>150 mm expansion joint system of make '3R' MSNSK (Wall Joints - Vertical Surface)</b> related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063.) Rates shall also be inclusive of anodizing / powder coating of all exposed aluminium work, all as per manufacturers specifications and approval of Architect / EIC <b>for all levels / at all heights for , all shapes with necessary scaffolding, .</b> If required, grouting should also be inclusive in the quoted rate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rmt  | 29       |             | -             |                  |
|        |          | <b>SUB TOTAL OF - F</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION G - PLASTER WORKS AND EXTERNAL FINISH:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
| 25     | G01      | <b>PLASTER WORKS:</b><br>Providing and laying average 12mm thick single coat mala finish Plaster in CM 1:3 (Cement 1: Sand 3) finished smooth with steel trowel including scaffolding, curing, etc.; complete <b>for all INTERNAL SURFACES</b> for ceiling, walls, sills, jambs, etc; complete all as per specifications for all floors / all heights, all levels for all shapes with necessary scaffolding, curing, making grooves, forming patts, hacking properly to existing /new RCC surface (75 hacks/sqft) etc. complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sqm  | 2,467    |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 26     | G02      | Providing and laying average <b>15 mm thick single coat mala finish plaster in CM 1:3 (cement 1: sand 3) finished smooth with steel trowels</b> on <b>EXTERNAL SURFACES</b> for all types of surfaces RCC / AAC Blocks / Brick Works for walls, ceiling , sills , jambs for all floors / all levels / at all heights for , all shapes with necessary scaffolding, curing, making grooves, forming pattas, hacking properly to existing & newly constructed RCC surface (75-100 hacks/sqft) etc. complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm  | 344      |             | -             |                  |
| 27     | G03      | Providing and laying average <b>20mm thick Sand faced cement plaster</b> on <b>EXTERNAL SURFACES</b> comprising of a base layer of 13mm thick in cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer of 7mm thick in cement mortar 1:1 (1 cement : 1 coarse sand) finished rough with proper rounder grains by using wooden float (tippani) including scaffolding, all lift charges, curing, etc; complete all as per specifications. <b>for all floors / all levels / at all heights for , all shapes with necessary scaffolding</b> , curing, making grooves, forming pattas, hacking properly to existing & newly constructed RCC surface (75-100 hacks/sqft) etc. complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm  | 216      |             | -             |                  |
| 28     | G04      | Providing and fixing <b>GI chicken wire mesh</b> of size 12mm size of 22g at the junction of dissimilar surfaces of brick masonry wall and R C C surfaces (such as columns , beams) including necessary nails for fixing etc, complete all as per specifications for all floors/ all levels /at all heights.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sqm  | 245      |             | -             |                  |
| 29     | G05      | <b>Providing and applying Silicone paint SILRES(R) BS 290 of Wacker</b> -1 liter & 13 liter solvent of recommended make over exposed concrete and brickwork /stone surfaces/Dholpur stone cladding works (Two coats on wet on wet applied ) etc for all places / all levels / all heights complete as directed by the Engineer-in-charge, so as original look does not change. The contractor shall furnish a minimum 5 years guarantee bond on stamp paper.<br>Note: The quoted Rate to be inclusive of the recommended solvent.<br>a) For RCC surface/ natural stone/ exposed brick work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm  | 1,037    |             | -             |                  |
| 30     | G06      | Providing & fixing <b>15 to 20mm thick White Dholpur / Pink Dholpur/Red Agra / Red Dholpur Stone wet cladding</b> , cut to required size & shape as per drawings duly approved by EIC , fixed in cream of cement to the external wall surfaces, <b>inclusive of a rough base coat of plaster 12mm thk.</b> in cement mortar 1:4 including scaffolding, curing and making wire brush marks to receive stone cladding, fixing to perfect line, level & plumb, closely jointed & pointed with white cement & matching colour pigment, also inclusive of providing & making grooves in the stone joints etc. as required, cleaning, curing etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sqm  | 1,037    |             | -             |                  |
|        |          | <b>SUB TOTAL OF - G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION H - WATER PROOFING WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
| 31     | H01      | <b>WATER PROOFING WORKS:</b><br>Providing and laying water proofing treatment over RCC roof in 3 courses, as specified below, after thoroughly cleaning surface of the roof slab with wire brush, cleaning of dust and foreign matters, raking and cleaning of construction joints if any etc., complete to make the surface suitable for receiving water proofing treatment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sqm  | 615      |             | -             |                  |
|        |          | <b>I COURSE</b> : The existing covering on slab to be removed and the surface of the RCC slab exposed. Construction joints if any are to be raked and cleaned. A coat of cement slurry at the rate of 4.4kg/sqm mixed with acrylic water proofing compound (as per manufacturers specification) is spreaduniformly over the RCC roof area and ensuring that the slurry penetrates into the RCC slab below and fills all micro cracks and all other porous areas. Over this a layer of 15mm thick cement mortar 1:5, mixed with acrylic water proofing compound as per manufacturers specifications shall be laid to place the II course.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
|        |          | <b>II COURSE</b> : a layer of Brick on edge with 15mm wide gaps filled with CM 1:5 mixed with acrylic water compound is laid (i.e., bricks placed vertically on its 75 x 115mm side or 75 x 230mm side as the case may be, to suit the required thickness of course), when the bottom layer (I course) is still green and laid to slope of 1 in 60 as per roof drainage scheme using approved well burnt bricks (water absorption not more than 20%) with minimum thickness of 65mm at outer edge including the top and bottom plastering (I & III course) to get required gradient, laying the bricks with not less than 15mm gap around, which shall be properly filled completely and compacted with CM 1:5 mixed with acrylic water proofing compound as per manufacturers specification using full bricks or bricks cut to required size to lay the course with single layer with gradient said above for adequate drainage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
|        |          | <b>III COURSE</b> : 20mm thick cement mortar 1:4 mixed with acrylic water proofing compound with a layer of chicken mesh 12mm x 26G and marked with 300mm x 300mm false squares including curing etc., for not less than 7 days, complete all as per specifications and directions of Engineer in charge. The 20mm thick layer shall be carried out in two layers of 10mm thick with an inter layer of chicken mesh of 12mm x 26G laid in between the two layers of cement mortar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |             |               |                  |
|        |          | <b>NOTE</b> : The acrylic water proofing compound to be used shall be (a) CHEMSEAL - manufactured by M/s. Overseas Water Proofing Corporation, Mumbai. The proportion of CHEMSEAL shall be 2% by weight of cement. OR CONPLAST X 421 IC - integral water proofing compound manufactured by M/s. FOSROCC Chemicals (India) Ltd., Bangalore. The proportion of CONPLAST X 421 IC shall be 130ml per 50 kgs of cement. OR ROFFE HYPROOF manufactured by M/s Pidiite Industries Ltd. (Erstwhile M/s. ROFFE Construction Chemicals Pvt. Ltd.), liquid integral water proofing compound at 140ml per 50kg of cement OR Equivalent. (b) The second course of the treatment shall be laid in using full bricks / cut bricks as may be required for laying the course in 1 in 60 slope. (c) The rate to include all labour, material and contingent costs for execution of work in a workman like manner including curing, etc., complete for respective courses. (d) The plane horizontal measurements of roof slab only shall be measured for payment. (e) The theoretical cement consumption required for the above work will be worked out based on co-efficient for each layer of work as per specification. (f) The work shall be got executed through specialised water proofing agency. (g) The contractor should finish a guarantee bond in the prescribed format for satisfactory water proofing performance for 10 years. |      |          |             |               |                  |
| 32     | H02      | Providing & laying <b>china mosaic flooring</b> for plain and curved surfaces at floor, dado, otta etc. comprising of 20 to 25 mm size broken pieces of ceramic/ glazed tiles laid over 1:6 cement mortar bedding including applying cement slurry at the rate of 2.75 kg per sqm on plain or sloped surfaces and filling joints with white cement at all floors / at all levels/ at all heights. The flooring/ dado shall be tampered with wooden rammer not exceeding 2 Kg in weight to bring the mortar up to the surface including rounding of the junctions and extending them upto 15 cm along the parapet wall. The rate shall include any type of bands, vata, any colour, any pattern or design as per drawing, curing, cleaning with water and oxalic acid etc. complete as sample approved EIC. (Only plan area shall be measured . The Vata upto 150mm height shall also be mesuered under this item).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm  | 615      |             | -             |                  |
|        |          | <b>SUB TOTAL OF - H</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION I - FLOORING WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |             |               |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 33     | I01      | Providing and laying <b>vitrified tile (Matt/ Glossy) flooring / skirting</b> (Tile size of 600 x 600mm of 9-10mm Thick thickness as per manufacturer) of Johnson/ Euro/ Asian/ Restile/ Nitco makes of any colour with water absorption's less than 0.08% using approved quality vitrified ceramic tiles conforming to IS:15622-2006, group B-II having straight cut edges for paper joints of approved size and thickness in all colours, shades and approved make, laying the tiles over a bed of 20mm thick cement mortar 1:3 with cement slurry @ 3.3 kg / sqm., including grouting the joints with white cement and matching pigments etc., finishing to required level, curing etc. as per manufacturer's specifications, drawings etc. at all heights /all floors / all levels etc all as per specifications. Flooring shall be protected by plastic sheet or plaster of Paris until the handling over the site and shall be cleaned at the time of handling over the site.<br><b>(Note: Rate for skirting to include providing 6 x 10mm neat groove on top i.e. at junctions of plaster &amp; skirting).</b> | Sqm  | 272      |             | -             |                  |
| 34     | I02      | Providing and laying <b>vitrified tile (Matt / Glossy) for dado</b> using Johnson/ Euro/ Asian/ Restile/ Nitco makes of any colour (Tile size of 600 x 600mm of 9-10mm Thick, thickness as per manufacturer) with water absorption's less than 0.08% using approved quality vitrified ceramic tiles conforming to IS:15622, group B-II of specified sizes (of approved make and finish) and approved colour with straight edge laid with a gap of and over 5-8mm thick BAL-CEM Adhesive (gold star) of M/s. Bal-Endura Adhesives Ltd., and joints grouted using the mixture of Bal-grout and Bal-GT1 of approved shade / colour having paper joint and finishing to required level, etc., complete all as per specifications and as directed by Engineer-in-charge at all levels for:<br><b>Note: Rate for skirting to include providing 6 x 10mm neat groove on top i.e. at junctions of plaster &amp; skirting.</b>                                                                                                                                                                                                 | Sqm  | 38       |             | -             |                  |
| 35     | I05      | Providing and laying <b>average 25mm (20mm-30 mm)</b> thick hand dressed single side green polished kota stone of approved quality, selected and sorted for uniform colour in floor, otta, dado, steps, jambs, platform, racks and skirting etc. of required sizes <b>above 600 mm and upto 2000 mm</b> as per design in normal pattern (straight or staggered joint with square or rectangular shaped stone) and residue as per drawing including 1:6 (1 cement : 6 sand) cement mortar bedding of average 20mm thickness jointed with grey cement and color pigment as specified. Rubbing and polishing to be done with 2 coats of 60, 120 grades of emery, balckchapadi and gutka for special polish after it polishing to be done with 220, 320, 400, 600 grades of emery till mirror/ semimirror finish is achieved. Curing, daily moping with water & kerosene as directed for at least 15 days after final polishing or upto the satisfaction of the Architect or Engineer-in-charge etc. complete. Prepolishing to be done as specified and instructed by Architect/ EIC. (NO WAXING WILL BE PERMITTED).      | Sqm  | 28       |             | -             |                  |
| 36     | I06      | Providing <b>roughened strip 2.5 cm wide</b> to form antiskid surface on floors & steps as per design including forming straight deep curved gishi (groove) 6 mm wide & 4 mm deep on two sides of the roughened area, chiseling, polishing the edges, sides and bottom of gishis etc. complete as per sample approved by Architect/ EIC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rmt  | 92       |             | -             |                  |
| 37     | I07      | Providing & laying approved quality <b>mirror finished Granite 18 to 20mm thick</b> of approved light shade ( <b>lighter shade like desert yellow, adhunik grey, morkarsar green, tropical brown, GD brown etc</b> ) colour & sample for Floor,Dado, skirting, pillars, counters, shelves, sills, partition, trough, table/platform/wall/ Tread/ risers of staircase, steps, etc. <b>of required sizes above 600 mm and upto 2000 mm as per design</b> , including necessary bonding, jointing and laid on 10 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with gray cement slurry including adhesive like Araldite as per requirement of work/fixing. The rate includes rounding, champhering and mirror polishing of edges etc. complete all. Rate shall be inclusive of making holes & cutouts for SS sink, Oval wash basin, Pillar tap, Bib tap-couplin etc. complete.(Only finished granite work in plan shall be measured & paid) all as per specifications and direction of engineer-in-charge for all floors / all heights / all levels for all works including.                         | Sqm  | 577      |             | -             |                  |
| 38     | I08      | <b>Extra over charges for flamed finish/ river finish over granite / italian marble / kota stone or any natural stone</b> as per drawing, instruction and directed by Architect/ EIC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm  | 21       |             | -             |                  |
| 39     | I09      | Providing & laying <b>sandwich platform</b> comprising of a) Sandwich of 18 mm thick single side polish Granite of approved size, shade (lighter shade like desert yellow, adhunik grey, morkarsar green, tropical brown, etc) and sample on top and 30 mm thick polished kota in bottom with 25mm thick cement mortar (1:4) in between b) At centre vertical sandwich supports of 30 mm thick two kota stone on sides and 20mm CM (1:4) in between and at both end walls vertical supports of 18 mm thick double side granite. c) 75 mm raised platform at bottom with kota on top and 50mm CM (1:4) at bottom, kota stone skirting as per design and approved sample. The rate includes rounding, champhering and mirror polishing of edges, facias of granite, MS support including necessary bonding adhesive (if required) of BASF / Fosroc / BAL / Laticrete / Kerakoll as per approved make. Rate shall be also inclusive of making holes & cutouts for SS sink, Oval wash basin, Pillar tap / Bib tap etc. as directed by engineer in charge. (Only plan area shall be measured & paid for).                  | Sqm  | 3        |             | -             |                  |
|        |          | <b>SUB TOTAL OF - I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION J - PAINTING WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
| 40     | J01      | <b>PAINTING WORKS:</b><br>Providing and applying <b>SUPER ACRYLIC EMULSION PAINT</b> of Two or More coats of approved colour, shade of <b>Asian / Berger / ICI / Nerolac</b> on newly <b>dry interior plastered surface</b> including walls, ceiling, roof etc.at all heights/ all levels/ all surfaces to give an even shade including applying required coats (min two coats) of white <b>cement based putty</b> of Birla white after thoroughly brushing the surfaces free from mortar dropping and other foreign matter. Preparing the surface even and sand papered smooth, after applying every coat of putty complete, providing and <b>applying priming coat</b> as recommended by manufacturer is to be applied over prepared smooth surface (undulation free) etc. complete all as per specifications. Sample to be approved before starting of the work by EIC. The rate shall also include the cost of filler for filling the cracks on surface and Priming coat .                                                                                                                                        | Sqm  | 2,467    |             | -             |                  |
| 41     | J02      | Providing & applying <b>Acrylic external Emulsion paint of Asian /ICI / Burger (Weather coat) having protection against fungile growth and UV degradation</b> as per approved make in <b>minimum three coats</b> (1 coat of exterior grade primer and 3 coats of paint) to give an even shade with brush on exterior sand faced plastered surfaces/ mala plastered surfaces/ textured surface or any other surfaces including ceiling, roof at all heights including scaffolding thoroughly brushing the surfaces with sand paper to make it free from mortar dropping and other foreign matter etc. complete as per the manufacture's specification and up to the satisfaction of Engineer in charge. The rate shall also include the cost of filler for cracks on the surfaces. Note The quoted Rate shall be inclusive of minimum 1 coat of exterior grade cement based putty on finish surface (if required) and coat of exterior grade primer). Paint coefficient of 1.00 for all the surfaces inclding sand face plaster /rough surface.                                                                        | Sqm  | 560      |             | -             |                  |
|        |          | <b>SUB TOTAL OF - J</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION K - ALUMINIUM WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |             |               |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 42     | K01      | <b>ALUMINIUM WORKS (DOORS &amp; WINDOWS):</b><br>Providing and fixing in position <b>frames/ shutter for any type of aluminum work like</b> aluminium door, composite door-window, window (sliding, openable, side hung, top hung, fixed etc.), casement window, sliding window, aluminium partition, cabinet, aluminium fixed louvers as per approved shop drawings and aluminium sections of <b>Jindal/ Indal/ Hindalco make</b> having minimum <b>60 micron</b> powder coating of approved shade & colour(including special colors) on sections for all floors/ all levels/ all heights/ all shapes/ all sizes as per the drawing, specifications. The quoted rate shall be inclusive of providing aluminium sections, powder coating, bending, cutting, fabrication, erection and fixing to the best workmanship manner with all type of wastage, including<br>1) Sheet metal screws, wool pile and aluminium angle corner cleat of required thickness and of full width, etc. for assembling the frame and shutter; 2) Best quality wool pile where ever shutter touches the frame; 4) Anchor fasteners of Hilty/ Mungo/ Fischer for fixing the frame assembly to the RCC or masonry surfaces. Minimum 1 anchor fastener shall be used for every 750mm length of section for stability of frame. But excluding 1) Rough ground to fix a frame with wall or any surface. Work shall be carried out as per the shop drawings submitted by contractor and approved by Consultant. Actual weight of installed aluminium sections which shall only be measured (only standard weight shall be considered) considered for the payment. Infill panels and hardware shall be paid under the respective items of this tender.<br>Contractor to provide water jet test after complete installation of job for water tightness / leakages of external openings. The openings will be checked for water leakages / tightness from junction point of frame with structure work. | KG   | 609      |             | -             |                  |
| 43     | K02      | Providing and fixing <b>rough ground</b> (packing) as per approved shop drawing in the gap between wall and door-window frame, to fix Partition(if required). The rate shall be inclusive of :<br>1) providing and fixing average 6-8mm thick <b>compact sheet</b> of width as per aluminium section / frame / shutter member.<br>2) filling the gap between wall and frame on both sides (outside and inside) with polyethylene backer rod of average 10 mm thickness of make <b>Supreme</b> and color and then sealing the remaining gap with neutral grade G/M (Glazed & Metal) weather silicon sealant / structural sealant of make <b>Wacker/ Dowcorning/ GE/ Soudal/ Bostik</b> of approved color. Work shall be carried out as per approved shop drawings and approved sample at all floors/ all levels/ all heights/ all shapes. <b>Contractor shall provide guarantee for water tightness for 12 months after defects liability period.</b> Installed measurements shall be considered for payment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt  | 169      |             | -             |                  |
| 44     | K03      | Providing and fixing <b>Clear Float Glass of 6 mm thickness</b> of <b>Modi guard / Saint Gobain / Asahi make</b> of any size, any shape and specified thickness in frame and shutter work with necessary cutting of glass as per drawing & specifications including providing and fixing EPDM quality rubber/ silicon sealant/ structural sealant of make <b>Wacker / Dowcorning / GE / Soudal / Bostik make</b> of 3M tape and approved make of EPDM rubber on the periphery of the glass as per the required thickness etc. complete at all floors/ all levels/ all heights as per the directions of Architect. Actual visible glass installed at site shall be measured and paid. <b>Rate shall be inclusive of all type of wastage.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sqm  | 44       |             | -             |                  |
| 45     | K04      | Providing and fixing <b>Wired Glass</b> including 1 mm thick ss wire @ every 1 cm horizontal & vertical of make <b>Modi guard / Saint Gobain / Asahi / Gopal glass</b> make of any size, any shape and specified thickness in frame and shutter work with necessary cutting of glass as per drawing & specifications including providing and fixing with EPDM quality rubber/ silicon sealant/ structural sealant/ 3M tape on the periphery of the glass as per the required thickness etc. complete at all floors/ all levels/ all heights as per specifications. Actual visible glass installed quantity shall be measured and paid. Rate shall be inclusive of all type of wastage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm  | 3        |             | -             |                  |
| 46     | K05      | Providing and fixing <b>Compact Sheet of 6 mm thick (plain)</b> of any size, any shape, any color of make <b>Sundek/ Vir/ Bloom/ Formica as per approved make</b> and specified thickness in aluminium frame and shutter work with necessary cutting of sheet, single side, double side coloured as per drawing & specifications including providing and fixing EPDM quality rubber/ silicon sealant/ 3M tape/ screwing on the periphery of the sheet as per the required thickness etc. complete at all floors/ all levels/ all heights as per the drawing & directed by EIC. Cut edges of the compact sheet shall be provided with masking tape. Actual visible compact sheet installed at site shall be measured and paid. <b>Rate shall be inclusive of all type of wastage.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sqm  | 69       |             | -             |                  |
| 47     | K06      | Providing and fixing <b>"Sliding lock with auto locking "</b> of make Alualpha/ Kitch, EPPW, Dunex, Dorma, Ebco, Palladium make for sliding door/ window with necessary s.s. screws and as per drawing, complete all as per specifications. <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 7        |             | -             |                  |
| 48     | K07      | Providing and fixing <b>dead lock</b> with 60/70mm Europrofile pin cylinder of Godrej/ Dorma/ Kitch/ Gadget/ Yale make with both side key/one side knob with one pair of rose for wooden/ aluminium doors with necessary ss phillips head screws etc. complete as per drawing and sample approved by EIC . <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No.  | 13       |             | -             |                  |
| 49     | K08      | Providing & fixing heavy quality <b>SS "Butt Hinge with 4 Bearing"</b> of 102 X 76 X 3mm of make of Godrej/ Dorma/ Kitch/ Gadget/ Yale make of grade SS 304 and brush/ satin finish with necessary s.s. screws and as per drawing, complete as approved by EIC. <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.  | 80       |             | -             |                  |
| 50     | K09      | Providing & fixing Heavy duty (90 KG ) <b>Standard Model Door Closer</b> with standard arm of make Godrej/ Dorma/ Kitch/ Gadget/ Yale make with necessary screws and as per drawing, complete as approved by EIC. Rate shall be inclusive of maintaining door closer in working condition till defect liability period with one year guarantee. <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.  | 18       |             | -             |                  |
| 51     | K10      | Providing & fixing SS 304 grade of brush/ satin finish <b>18" x 10mm (square)</b> size <b>Tower Bolt</b> of make Godrej/ Dorma/ Kitch/ Gadget/ Yale make in door/ window with necessary screws and as per drawing, complete as approved by EIC. <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.  | 16       |             | -             |                  |
| 52     | K12      | Providing & fixing SS of glossy/ satin finish <b>22mm (diameter) x 300mm size Push-Pull Handle</b> in pairs of make Godrej/ Dorma/ Kitch/ Gadget/ Yale make in door/ window with necessary screws and as per drawing, complete as approved by EIC. <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pair | 17       |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 53     | K13      | Providing & fixing SS of glossy/ satin finish <b>19mm (diameter) x 150mm size Push-Pull Handle</b> in pairs of make Godrej/ Dorma/ Kitch/ Gadget/ Yale make in door/ window with necessary screws and as per drawing, complete as approved by EIC. <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pair | 3        |             | -             |                  |
| 54     | K15      | <b>Extraover bending charges</b> of circular windows (measurement will be taken for entire window frame considered as 1 no. of each window made of any size of frame member or any no.) of any diameter as per drawing or as suggested and directed by EIC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 5        |             | -             |                  |
|        |          | <b>SUB TOTAL OF - K</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION L - GENERAL DEVELOPMENT WORKS:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               |                  |
| 55     | L01      | Providing and laying <b>gravel and sand mixed soling</b> of consolidated thickness 300mm thick with gravel and coarse sand mixed in ratio 1:1 proportion in <b>layers not exceeding 150mm thick</b> including supplying approved graded gravel and sand (in a mixed condition), spreading and forming gravel soling, berms, including sectioning, watering, consolidating with power roller of minimum 8 tonnes capacity inclusive of water charges, hire charges of roller, etc; complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cum  | 51       |             | -             |                  |
| 56     | L02      | Providing, laying, spreading and compacting graded stone aggregate to <b>Wet Mix Macadam (WMM)</b> specification including premixing the material with water at OMC (Optimum Moisture Content) in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density and <b>150mm consolidated thickness ,etc. complete all as per specifications.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cum  | 51       |             | -             |                  |
| 57     | L03      | Providing and laying <b>bituminous macadam 50 mm compacted thickness</b> using specified graded Black trap crushed stone aggregates as per MORTH Specification & asphalt for tack coat @ 2.5 Kg /10 Sq m with mechanical sprayer & Bitumen grade 80/100 for mixing at the rate of 3.4 % (34 Kg./M.T.) of total weight of mix including heating the aggregate and asphalt continous batching drum mix plant and sprading the same by paver finisher and consolidation with vibratory roller to achieve desire density including cost of fire wood, oil, Kerosene,flushing of stone dust as required, labour charges and hire charges of machineries etc. complete as directed by EIC.                                                                                                                                                                                                                                                                                                                                                                           | Cum  | 17       |             | -             |                  |
| 58     | L04      | Providing and laying <b>bituminous macadam 37.5 mm( As a profile corrective course.) compacted thickness</b> using specified graded Black trap crushed stone aggregates as per MORTH Specification & asphalt for tack coat @ 2.5 Kg /10 Sq m with mechanical sprayer & Bitumen grade 80/100 for mixing at the rate of 3.4 % (34 Kg./M.T.) of total weight of mix including heating the aggregate and asphalt continous batching drum mix plant and sprading the same by paver finisher and consolidation with vibratory roller to achieve desire density including cost of fire wood, oil, Kerosene,flushing of stone dust as required, labour charges and hire charges of machineries etc. complete as directed by EIC.                                                                                                                                                                                                                                                                                                                                       | Cum  | 13       |             | -             |                  |
| 59     | L05      | Providing and laying <b>20 mm thick mix seal surfacing</b> using spcified graded crushed Black trap stone aggregates as per MORTH gradation using 80 / 100 bulk bitumen for mixing at the rate of 5.090 % (50.90 Kg./M.T.) by hot mix process and hot laid process using sencer paver finisher to the required camber and grade, including rolling with vibratory roller to achive desier density including cost of clearing using mechanical cleaner & collecting dust vacume cleaner of required capacity,disposing of the stuff within 3 Km. lead as directed and using, fier wood, oil, Kerosene, labour charges and hire charges of machinaries etc. complete as directed by EIC..                                                                                                                                                                                                                                                                                                                                                                        | Cum  | 7        |             | -             |                  |
| 60     | L06      | Providing and laying <b>precast curbing</b> of make M/s.Super / Vyara / Alcock / Sabar / Nitco make (to be done at site/ factory made) RCC M20 grade curbing 45cm height x 10cm thick X 45cm length including necessary excavation, back filling, disposal of surplus earth / debries, cutting the road, laying PCC 1:4:8 (1 cement: 4 sand: 8 stone aggregate 20/37 mm. down size), shuttering, exposed rendering, curing, flush pointing CM 1:3 excluding reinforcement as per the drawing and sample approved by EIC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 240      |             | -             |                  |
| 61     | L07      | Providing and laying <b>shot blasted interlocking paver blocks</b> flooring using approved shape, size and <b>colours</b> with required combination of colours of blocks having <b>60mm thickness</b> made out of cement concrete with Grey cement base (OPC) close jointed, grade not less than <b>M30</b> grade as per manufacturer catalogue, manufactured by <b>M/s.Super / Vyara / Alcock / Sabar / Nitco make</b> over bed of 75 mm thick river sand to a tight pattern, laid to proper line and level including bedding down the completed surface with a power operated mechanical plate vibrator , finishing by brushing clean dry sand over the surface to fill all the joints thoroughly including fixing the edge restraint laying blocks etc., complete all as per manufacturers specifications and directions of Engineer in charge etc. complete all as per specifications. Note The quoted rate should be inclusive of cost of paver blocks, sand and labour etc. The arrangement of pattern of blocks shall be as per architectural drawings. | Sqm  | 180      |             | -             |                  |
| 62     | L08      | Providing and laying <b>shot blasted interlocking, non-interlocking high density 60 mm thick of M30 grade grey paver blocks as per manufacturer catalogue, manufactured by M/s.Super / Vyara / Alcock / Sabar / Nitco make</b> for footpath, parking areas, service lanes and other areas as mentioned in the drawing including average 50 to 80 mm thick bedding layer of coarse sand below paver block. Laid paver block shall be mechanically compacted up to satisfaction of EIC. The work shall be executed in line and level by skilled mason of flooring work only for paver blocks. It should be laid in such a way that the no cutting of the paver block to be necessary and if required, cutting of paver block to be by machine cut only. The Finished surface of the paver block shall have coarse sand texture finish. Paver blocks shall be compacted and shall be re-laid, if necessary (required/ instructed by EIC).                                                                                                                         | Sqm  | 180      |             | -             |                  |
| 63     | L09      | <b>Providing &amp; fixing precast cement concrete block for Tree pit in two part - 900 x 900 x 65mm of M20 grade - 1:1.5:3</b> (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size) <b>pre-cast exposed/ fare finish blocks</b> of approved design including formwork, curing etc. complete all as per specifications. The rate shall also include for erecting and fixing the pieces in position with necessary equipments and materials. <b>The rate shall also include the flush pointing in CM (1:3) for all joints of the kerb stones.</b> Sample must be approved by EIC. Two layer casting is not allowed in any case. <b>Monolithic and homogeneous casting is required using fiber or rubber mould only.</b>                                                                                                                                                                                                                                                                                                                      | No.  | 15       |             | -             |                  |
| 64     | L10      | Providing & fixing <b>precast cement concrete block for light pole</b> of size 300 x 300 x 65mm of M20 grade - 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size) <b>pre-cast exposed/ fare finish blocks</b> of approved design including formwork, curing etc. complete all as per specifications. The rate shall also include for erecting and fixing the pieces in position with necessary equipments and materials. The rate shall also include the flush pointing in CM (1:3) for all joints of the kerb stones. Sample must be approved by EIC. Two layer casting is not allowed in any case. <b>Monolithic and homogeneous casting is required using fiber or rubber mould only.</b>                                                                                                                                                                                                                                                                                                                                     | No.  | 10       |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 65     | L11      | <b>Providing and marking hot applied thermoplastic</b> compound, patta, arrows, symbols, letters, words on road, any types of walls, any RCC element and any other surface at all height/ all floors/ all levels with reflector design glass bends on bituminous surface or any other surface providing and laying of hot applied thermoplast compound 2.5 mm thick including reflecting glass beds @ 250 gm per sq meter area thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35 finished surface to be level uniform and free from streaks and holes etc. as directed and sample approved by Architect/ EIC. Note : Actual size of thermoplastic patta shall be measured and paid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sqm  | 23       |             | -             |                  |
| 66     | L12      | Supplying and fixing <b>chain link fencing</b> using G.I chain link fencing tied to the post , etc; all as directed by the Engineer-in-charge.<br>Using G.I CHAIN LINK FENCING of size 50 x 50 x 10g x 10g.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sqm  | 135      |             | -             |                  |
|        |          | <b>SUB TOTAL OF - L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION N - FALSE CEILING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |             |               |                  |
| 67     | N01      | Providing and fixing at all height in all floor with all lead seamless type M/F suspended <b>False Ceiling of India GYPSUM</b> using GI perimeter channel of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screws fixed to brick wall / partition with help of nylon sleeves and screws at 610mm centres. Then suspending GI intermediate channels of size 45mm (0.9mm thick with two flanges of 15mm each) from the soffit at 1220mm centres with ceiling angle of width 25mmx10mmx0.5mm thick fied to soffit with GI cleat and steel expansion fasteners. Ceiling section of 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each withlips of 10.5mm are then fixed to the intermediate channel with the help of connecting clip and in direction of perpendicular to the intermediate channel at 5/457mm centres. 12.5mm tapered edge gypboard (conforming to IS 2095-1982) is then screw fixed to ceiling section with 25mm dry wall screws at 230mm centres. Screws fixing is done mechanically either with screw driver or drilling machine with suitable attachment. Finally the boards of 12.5mm thick gyp board are to be jointed and finished so as to have a flush look which includes filling and finishing the tapered and square edges of the boards with jointing compound, joint paper tape and two coats of drywall topcoat suitable for gypboard including providing scaffolding and executing the work at all heights. (Please refer drawing for details and recommended practices of India Gypsum). <b>The quoted rate shall be for all heights / all floors / all levels.</b><br><b>Note: For lighting fittings, grills diffusers and cutouts etc., have to be amde with the frame of perimeter channels of sizes 20mmx27mmx30mmx0.55mm thick supported suitable and should be considered as per drawing.</b> | Sqm  | 81       |             | -             |                  |
| 68     | N02      | Providing and fixing <b>Armstrong DUNE Supreme Microlook Edge ceiling</b> tile in true horizontal level 600mmx600mm false ceiling manufactured by M/s. Armstrong World Industries using Armstrong XL 15mm grid, hot dipped galvanized steel section, exposed GI wire and 8mm dia anchor fastners at every 1200mm intervals at the main tee and laying DUNE Supreme Microlook Edge ceiling tiles manufactured by M/s. Armstrong World Industries of size 600mm x 600mm X 16mm over the formed grid including providing necessary openings and additional frame work required for light fittings & AC fittings / grills etc., having NRC 0.50, light reflectance of >83% (WT), thermal conductivity k=0.052-0.057 W/mo K, Humidity Resistance of 99% (having lifetime guarantee against SAG), having fire performance class O / Class 1 (BS 476), surface having 3 coats of white paint - crisp surface with pre coated capping, main tee of size 15x32mm having 0.27mm thick at every 1200mm centre to centre (maximum) and rotary stitched cross tee of size 15x32mm having 0.27mm thick at every 600mm c/c and sub cross tee of size 15x32mm having 0.27mm thick at every 1200mm c/c and wall angel of size 19x19mm having 0.35mm thick fixed to the periphery at every 1200mm c/c in both directions using 2.0mm diameter pre-straightened finely granulated with micro perforations, back of the tile duly sanded and finished with a coat of protective paint over the formed grid complete all as per the manufacturers specifications and as per the direction of EIC.                                                                                                                                                                                                                                                                                                                                                           | Sqm  | 283      |             | -             |                  |
| 69     | N03      | <b>TRAP DOOR FALSE CEILING (openable false ceiling)</b><br>Providing & fixing openable false ceiling inline with fix false ceiling of 12.5mm thick MR Gypsum board of Saint Gobain India Gypsum or Armstrong or Anutone or Aerolite t as per approved make finished as per the architectural drawings. Board shall be fixed with MS box section framing of required sizes and shall be both side finished with paint including beads molding, curving, lipping, two L&key locking system, fittings, hardware (heavy duty - Tower bolt, pivot, offset hinges) etc. as per drawing & design. Gypsum board shall be fixed with required size s.s.countersunk sheet metal screws to the MS framework approximately at 300 mm C/C. The frameworks shall be fabricated and erected from having grid given as per drawing. M.S. section and fabrication shall be paid in separate item as per working drawing. Two back to back angle/ flat/ plate shall be provided at the joint of as per requirement. All the members of the frame work shall be painted with two coat of zinc chromate yellow oxide & two coat of enamel paint of approved make which is paid in separate item. The shop drawing, specification and sample mock of minumum 10 SQM with framework shall be approved from Architect/ EIC. Groove shall be provided at the junction of the false ceiling & the wall as per drawing. Rate shall also include cost of making of all cutouts for light fixtures, gadgets, gizmo, pelmets, grooves, beads and also provide support/ template where ever required. The rate shall be in SQM for all floors/ all heights/ all lelvels complete all. The contractor has to give company's (IGL) certification for performance of the product and installation. Ceiling installation should be as per manufacturers specifications.                                                                                                  | Sqm  | 17       |             | -             |                  |
|        |          | <b>SUB TOTAL OF - N</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               | <b>0.00</b>      |
|        |          | <b>SECTION O - MISCELLANEOUS ITEMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               |                  |
| 70     | O01      | <b>Skylight</b><br>Providing and installing circular shape Double glazed unit of combination 12mm toughen glass + 1.52mm sentry PVB + 12mm toughen glass laminated) at terrace as sky light. All periphery of DGU shall be supported on existing terrace floor with necessary baker rod, exterior grade pu sealant, mortar, grout for including finishing, necessary scaffolding, curing etc complete for all height as per design and as directed bye engineer in charge. . Note: Design shall be done for square panel with higher area to perimeter ratio and same shall be consider for payment.<br>The structural steel frames will be seperately measured and paid for in the respective tender items.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sqm  | 3        |             | -             |                  |
| 71     | O02      | <b>Wall Mounted Railing System</b><br>Supply, installation of readymade wall mounted railing of approved make like Arch / Magnum/ Kich make of 304 Grade Stainless Steel comprising Ø 38mm Handrail mounted on the wall through Wall Brackets & anchor fasteners to be fixed / installed at maximum 1200mm c/c distance and suit to site condition for any deviation than this. Joints to be filled with bushings for extra strength. Contractor to approve shop drawings, sample from EIC before material procurement and one installed sample before mass installation of work. <b>The quoted rate shall be for all heights / all floors / all levels.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  | 25       |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 72     | O03      | <b>Top Mounted Baluster With Horizontal Members Railing System</b><br>Supply, installation and finishing of Arch /Magnum/ Kich make 304 Grade Stainless Steel Knock Down railing system complete comprising Ø 38mm Handrail fixed on Ø 38mm S.S. Round baluster placed at maximum 1200mm c/c along with 3 Nos. Ø 16 mm mid rails connected at the side of baluster with fixtures. The balustrade would be fixed onto floor with casted base plate of minimum 6mm thickness. Base plate shall be concealed with suitable S.S. 304 grade cover Cap so that the mounting anchor fasteners are not visible after installation.Wall thickness of Handrail & Baluster Pipes shall be taken as 1.5mm & Mid Rail Shall be 1.2 mm along with all visible components developed in High Grade S.S. and whenever required, joints to be filled with bushings for extra strength. Railing height to be taken @ 1000mm from floor level. Contractor to approve shop drawings, sample from architect before material procurement and starting of any work on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt  | 17       |             | -             |                  |
|        |          | <b>SUB TOTAL OF - O</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               | <b>0.00</b>      |
|        |          | <b>TOTAL - A TO N (FOR CIVIL WORKS)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
|        |          | <b>II - SECTION M - PLUMBING WORKS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |             |               |                  |
| 73     | M01      | Providing and Fixing <b>Anglo Indian/ Universal W/c Closet Suite (With Flush Tank) With 'P' Trap Hindware - Universal WC 20012, Cera - Universal - 2061 &amp; Parryware-Universal-C0271.</b><br>Comprising of : (A) Best Indian made <b>white</b> glazed vitreous Chinaware european water closet, with wash down pattern of approved make with trap as mentioned conforming to IS:2556-Part-II bearing ISI mark fixed to floor with necessary CP brass screws No. 8x37 etc. (B) Concealed type flushing cistern with <b>15mm dia stop cock of Jaquar make continental series</b> and including making connections to WC and cistern with CP wall flange with adjustable screw for with matching chromium plated. (C) Black plastic seat and cover of approved make with CP pillar hinges conforming to IS:2548. Complete all as specified above with approved fittings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each | 2        |             | -             |                  |
| 74     | M02      | Providing and Fixing Indian make <b>wash hand basin Size 550 X 400 mm</b> (with CP bottle trap) Comprising of : A) <b>Best Indian make white glazed vitreous chinaware wash hand basin</b> of Hindware-Cleo-10012(Without pedestal), Cera-Canon-1012 & Parryware-Titan range-C0432/36- (Without pedestal) with single tap hole <b>supported on a pair of painted CI brackets</b> b) <b>One 15mm CP brass pillar cock</b> of Jaquar make continental series approved make with hot or cold water indication C) <b>One 15mm heavy quality flexible PVC inlet pipe connection with CP brass hexagonal check nuts with washer at both ends.</b> D) <b>One 15mm CP brass angle-cock/stop cock</b> Jaquar make continental series . E) <b>One 32mm heavy quality CP brass waste coupling</b> Jaquar make continental series F) <b>One 32mm heavy quality CP brass bottle trap</b> Jaquar make continental series with extension piece and wall flange. G) <b>One 32mm medium quality GI waste pipe with specials from extension piece of the bottle trap to the floor trap</b> , length not exceeding 1 mtr concealed in wall.holes at appropriate places for inlet, outlet, over- flow, scour pipes etc.including providing necessary check nut systems for connecting the GI / PVC pipes / fittings, including fixing required ball valve (to be paid seperately) & connecting individual tank to a manifold line system (which will be paid seperately) etc. all complete, but without fittings and the base support for tank, using: H) One no. 40mm GI bend and 40mm dia <b>250mm long GI pipe connection waste pipe to floor trap</b> . All as per specifications and as directed with approved fittings. <b>Note The quoted rate should be inclusive of Wall flanges , extension nipples, etc.</b> | Each | 2        |             | -             |                  |
| 75     | M03      | Providing and Fixing in position <b>Flat back urinal</b> comprising of : A) <b>White</b> glazed vitreous chinaware of approved make <b>Flat back urinal of size 430mmX300mm</b> with necessary fixtures of Hindware - Urinal - 60002,Cera-Flat Back-5005 & Parryware - New Magnum-C0575 B) CP brass distribution pipe and spreader of best approved quality to the urinal with necessary CP brass specials, clamps etc., one for each urinal in a range.C) One number 32mm CP brass waste coupling of Jaquar make <b>model no. ALD 709</b> one for each urinal D) One number 32mm PVC waste pipe and specials from each urinal to floor trap / half round channel. Complete all as specified with approved fittings Complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 2        |             | -             |                  |
| 76     | M04      | Providing and fixing best Indian make <b>kitchen sink without drain board</b> comprising of: A) Best Indian make glazed fire clay kitchen sink of approved make of size 600X450X250mm conforming to IS:771 Part II supported on painted CI brackets conforming to IS: 775 B) One 40mm heavy quality CP brass waste coupling. C) One 32mm PVC waste pipe bent to shape length not exceeding 1m to discharge into the floor trap through 40mm GI elbow, 40mm dia 250mm long GI medium class pipe connecting to floor trap. D) Providing and Fixing Single lever Deck Mount Kitchen Sink Mixer with Swinging spout, in Polished Chrome of approved make and conforming to Manufacturers Standards. Kitchen Sink Mixer: Jaquar FLR-5173B . Complete all as specified with approved fittings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each | 1        |             | -             |                  |
| 77     | M05      | Providing and Fixing <b>Urinal Flush Valve</b> Urinal Flush Valve Jaquar make catalogue No. PRS-077 with wall flange etc. <b>Complete all as per specifications.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Each | 2        |             | -             |                  |
| 78     | M06      | Providing and Fixing <b>2-Way Brass Bib Tap JAQUAR make catalogue no, FLR 5041N</b> etc., Complete appas per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Each | 2        |             | -             |                  |
| 79     | M07      | Providing and Fixing <b>Health Faucet</b> of JAQUAR make catalogue No. ALD-573 with metal hose and holder etc. <b>Complete all as per specifications.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Each | 2        |             | -             |                  |
| 80     | M08      | Providing and Fixing in position <b>Granite partition slab for urinals</b> , size 610X1150mm, 18mm thick (tolerance + \ - 1mm) mirror polished on both sides and machine cut edges with exposed corners rounded etc all as per specifications.Note : The quoted rate should be inclusive of chasing in the wall and fixing with cement and matching pigment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sqm  | 3        |             | -             |                  |
| 81     | M09      | Providing and Fixing in position best quality approved make <b>bevelled edge Mirror</b> of size 550 x 400mm mounted on 6mm thick plain asbestos sheet/ E- Board / Bison Panel backing with 4no.s of CP brass cap screws and washers fixed to walls with necessary plugs etc. all per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Each | 2        |             | -             |                  |
| 82     | M10      | Providing and Fixing in position 15mm n.b. Jaquar make continental series <b>bib tap Catalogue no. con-0490KN</b> all as per specifaicaitons.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each | 2        |             | -             |                  |
| 83     | M11      | <b>Providing and Fixing</b> in position approved best Indian make heavy quality screw down <b>Gun metal Gate valve of 25 mm n.b. of Zoloto make</b> with hand wheel of following sizes conforming to IS:778 and bearing ISI mark including testing, making good the leakages etc. complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Each | 2        |             | -             |                  |
| 84     | M12      | <b>Providing and Fixing</b> in position approved best Indian make heavy quality screw down <b>Gun metal Gate valve of 40 mm n.b. of Zoloto make</b> with hand wheel of following sizes conforming to IS:778 and bearing ISI mark including testing, making good the leakages etc. complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Each | 2        |             | -             |                  |
| 85     | M13      | <b>Providing and Fixing</b> in position approved best Indian make heavy quality screw down <b>Gun metal Gate valve of 50 mm n.b. of Zoloto make</b> with hand wheel of following sizes conforming to IS:778 and bearing ISI mark including testing, making good the leakages etc. complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Each | 2        |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 86     | M14      | Providing, laying, jointing, fixing, testing, painting, commissioning 50 mm dia GI pipes, medium grade conforming to IS: 1239 including GI specials, cutting the pipes to the required lengths, threading, jointing the pipes, chasing the walls, and floors, making the holes, clamping to walls using wooden spacers or clamps and restoring the same to the original conditions, necessary excavation, testing, refilling etc., <b>Rates shall be inclusive of painting GI pipes and fittings with two coats of anticorrosive bitumastic paint of approved quality and coating the pipes with hezzaine ropes/threads for underground protection of pipes. etc. Complete all as per specifications.</b> | Rmt  | 50       |             | -             |                  |
| 87     | M15      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad For Internal Works - 15mm Outer dia , having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints for <b>concealed works</b> including cutting chases and making good the wall etc. <b>Complete all as per specifications.</b>                                                                                                                         | Rmt  | 10       |             | -             |                  |
| 88     | M16      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad For Internal Works - 20 mm Outer dia , having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints for <b>concealed works</b> including cutting chases and making good the wall etc. <b>Complete all as per specifications.</b>                                                                                                                        | Rmt  | 25       |             | -             |                  |
| 89     | M17      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad For Internal Works - 25 mm Outer dia , having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints for <b>concealed works</b> including cutting chases and making good the wall etc. <b>Complete all as per specifications.</b>                                                                                                                        | Rmt  | 10       |             | -             |                  |
| 90     | M18      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad For Internal Works - 32 mm Outer dia , having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints for <b>concealed works</b> including cutting chases and making good the wall etc. <b>Complete all as per specifications.</b>                                                                                                                        | Rmt  | 5        |             | -             |                  |
| 91     | M19      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad of 15 mm dia Exposed on wall , having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints complete as per direction of Engineer in charge etc for Internal Works Exposed on wall with 15mm Outer dia                                                                                                                                                  | Rmt  | 5        |             | -             |                  |
| 92     | M20      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad of 20 mm dia Exposed on wall , having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints complete as per direction of Engineer in charge etc                                                                                                                                                                                                         | Rmt  | 5        |             | -             |                  |
| 93     | M21      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad of 25 mm dia Exposed on wall , having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints complete as per direction of Engineer in charge.                                                                                                                                                                                                            | Rmt  | 5        |             | -             |                  |
| 94     | M22      | Providing and fixing Chlorinated Polyvinyl chloride (CPVC) pipes Astral/ Supreme/Ashirwad of 32 mm dia Exposed on wall, having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing pipe with clamps at 1.00 m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including of joints complete as per direction of Engineer in charge etc .                                                                                                                                                                                                        | Rmt  | 5        |             | -             |                  |
| 95     | M23      | Providing ,laying ,fixing,testing,commissioning threaded 32 mm n.b PVC schedule 40 confirming ASTM-D-1785 Astral/ Supreme/Prince makes with specials ,cutting the pipes to the required lengths,threading, jointing the pipes using teflon tape chasing the wall using the walls and floors , making the holes,clamping to walls using the wooden spacers or clamps and restoring the same to the original conditions , necessary excavation ,testing ,refilling etc.complete all as specified and directed and as per manufacturer's specifications and as per direction of Engineer in charge etc .,                                                                                                    | Rmt  | 2        |             | -             |                  |
| 96     | M24      | Providing ,laying ,fixing,testing,commissioning threaded 40 mm n.b PVC schedule 40 confirming ASTM-D-1785 Astral/ Supreme/Prince makes with specials ,cutting the pipes to the required lengths,threading, jointing the pipes using teflon tape chasing the wall using the walls and floors , making the holes,clamping to walls using the wooden spacers or clamps and restoring the same to the original conditions , necessary excavation ,testing ,refilling etc.complete all as specified and directed and as per manufacturer's specifications and as per direction of Engineer in charge etc ..                                                                                                    | Rmt  | 2        |             | -             |                  |
| 97     | M25      | Providing and fixing UPVC floor trap with 75 mm dia outlet "Prince" or "Supreme" make,including connection with PVC soil/waste pipe necessary 150 mm thick CC 1:2:4 for embedding the trap including providing and fixing top rail and strainer on the top of the tral etc. complete all as specified and directed.                                                                                                                                                                                                                                                                                                                                                                                       | Each | 7        |             | -             |                  |
| 98     | M26      | Supply,Laying and fixing in position under floor against wall in chases 75 MM dia ( Min Wall thk 3.2 mm) PVC SWR drainage pipe and specials rings conforming to TYPE B of IS 13592 Prince or Supreme Or Finolex as per manufacturer specification including cutting the pipes to requires lengths necessary excavation,chasing and restoring to original conditions ,testing,etc Complete all as per specifications.                                                                                                                                                                                                                                                                                      | Rmt  | 15       |             | -             |                  |
| 99     | M27      | Supply,Laying and fixing in position under floor against wall in chases 110 MM dia ( Min Wall thk 3.2 mm) PVC SWR drainage pipe and specials rings conforming to TYPE B of IS 13592 Prince or Supreme Or Finolex as per manufacturer specification including cutting the pipes to requires lengths necessary excavation,chasing and restoring to original conditions ,testing,etc Complete all as per specifications.                                                                                                                                                                                                                                                                                     | Rmt  | 15       |             | -             |                  |

| SL. No | ITEM NO.   | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 100    | M27-A      | Supply,Laying and fixing in position under floor against wall in chases <b>160 MM dia ( Min Wall thk 3.2 mm) PVC SWR drainage pipe</b> and specials rings conforming to TYPE B of IS 13592 Prince or Supreme Or Finolex as per manufacturer specification including cutting the pipes to requires lengths necessary excavation,chasing and restoring to original conditions ,testing,etc Complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rmt  | 90       |             | -             |                  |
| 101    | M28        | Providing and laying in trench <b>reinforced concrete non-pressure 250mm IS class NP-3 pipes 250mm diameter</b> of following internal diameter at a depth from 1.5 m to 3 m on RCC cradle if specified (to the level and slope) and jointing with collars and butt-ends prepared for collar joints, including filling the joints with CM 1:1 and testing of joints, etc., complete (RCC cradle and excavation and backfilling shall be measured and paid for separately in relevant tender item).Complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                     | Rmt  | 150      |             | -             |                  |
| 102    | M29        | Construction of <b>valve chamber of size 600 x 600mm</b> , up to 750mm deep comprising of 230mm thick brick walls using first class country brick walls in CM 1:5 over a bed of 150mm thick PCC 1:3:6 (using 40mm size metal) with 75mm projections around beyond the masonry faces, plastered with CM 1:3, mixed with waterproofing compound as per manufacturer's specifications 12mm thick on internal, external top surfaces and internal and top exposed surfaces finished smooth with a floating coat of neat cement, providing and fixing painted light duty double seal CI frame and cover of size 600 x 450mm weighing about 50- 52Kgs conforming to IS 1726 with locking arrangement fixing the frame in RCC 1:2:4 including cost of necessary steel reinforcement, fabricating, form work, curing, etc, complete all as per specifications.                                                                   | Each | 2        |             | -             |                  |
| 103    | M30        | Providing and Fixing in position best quality <b>salt stoneware gully trap of size 100mm square</b> with 100mm outlet; conforming to IS:651 embedded in plain cement concrete 1:3:6 (20mm Metal), providing and fixing 100mm square CI grating on top of the trap, all the above encased in a chamber of 300 x 300mm built with 115mm thick brick masonry using first class country bricks in CM 1:3, over a bed of CC 1:4:8 using 40mm size metal 100mm thick, plastering with CM 1:3, 13mm thick inside, outside, exposed top surfaces and Internal and top exposed surfaces finished smooth with a floating coat of neat cement, Providing and fixing CI frame and cover of size 300 x 300mm weighing not less than 7Kgs fixing the frame in PCC 1:2:4 using 20mm stone metal including painting the frame and cover with 3-coats of anticorrosive black bitumastic painting etc. Complete all as per specifications. | Each | 3        |             | -             |                  |
| 104    | M31        | <b>Construction of Manhole of clear dimension 1200X900mm</b> in 230mm thick brick masonry using first class country bricks in CM 1:3 over a bed of 200mm thick CC1:2:4, plastering with CM 1:2, 12mm thick on internal, external surfaces and Internal, top exposed surfaces finished smooth with a floating coat of neat cement, RCC 1:2:4 with necessary steel reinforcement as per drawing to support CI frame and cover of size 610X455mm weighing about 50- 52Kgs conforming to IS:1726 in CC1:2:4 and CI steps painting with 3-coats of anticorrosive, black bitumastic paint, encasing of sewer connection to manhole with PCC 1:2:4 etc. Complete all as specified and directed <b>for initial depth of 1.0mtr</b> . Note: CC 1:2:4 in the above item is by using 20mm graded aggregate obtained from approved quarry                                                                                            | Each | 6        |             | -             |                  |
| 105    | M34        | <b>Extra over item no. M31 for constructing additional depth of manhole of size 1200 x 900mm</b> beyond the initial depth of 1mtr for brick work at one & half bricks size, cement concrete, plastering, providing and fixing CI steps, dewatering etc. Complete up to a minimum depth of 1mtr. Complete all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rmt  | 12       |             | -             |                  |
| 106    | M32        | <b>Providing and fixing CI frame and cover 500mm dia of Neco weighing about 50- 52Kgs conforming to IS:1726 ,etc. complete as per specifications.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | KG   | 250      |             | -             |                  |
| 107    | M33        | <b>Providing &amp; fixing Medium duty CI frame and cover 500mm dia</b> of Neco weighing not less than 116Kgs conforming to IS:1726 all as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | KG   | 348      |             | -             |                  |
| 108    | M35        | <b>Making connection from existing water valve chamber</b> , including tapping and making connection to existing live water supply line, including providing elbow and isolation valve etc., Complete as directed by EIC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Job  | 1        |             | -             |                  |
| 109    | M36        | <b>Making connection to existing soak well / Drainage system</b> for proposed sewerage line, including making drop connection if required, safe drilling / making hole to existing inlet chamber, finishing, etc., all as per direction of engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Job  | 1        |             | -             |                  |
|        |            | <b>SUB TOTAL OF - M</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               | <b>0.00</b>      |
|        |            | <b>TOTAL M (PLUMBING WORKS)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |             |               | <b>0.00</b>      |
|        |            | <b>III - SECTION P - Electricals Works</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        | <b>1.0</b> | <b>MV Switchgear &amp; Power Panels</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               |                  |
|        |            | Supplying, unloading at site, shifting to site, assembling, leveling, grouting, erecting, Testing, & Commissioning of L.T. panel board, fabricated from 14 SWG CRCA sheet & 2 mm folded channel totally enclosed cubical type compartmentalized having minimum IP-54 protection in cluding seven tank process and powder coating of approved shade of color including required fixing accessories and complete the work in good manner as per drawings and as directed by the Engineer-in-Charge.<br><br>Note:<br>(1) SLD to be fixed inside the compartment door.<br>(2) Danger notice board to be provided.<br>(3) Identity tag to be provided on each feeder.                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| 110    | 1.1        | Main Electrical Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 1.00     |             | -             |                  |
|        |            | As per attached Single Line Diagram                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |             |               |                  |
| 111    | 1.2        | Emergency Power Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 1.00     |             | -             |                  |
|        |            | As per attached Single Line Diagram                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |             |               |                  |
|        |            | <b>Sub Total 1.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               | <b>-</b>         |
|        | <b>2.0</b> | <b>Distribution Board</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               |                  |
|        |            | Supplying, assembling, grouting, levelling, installation, Connecting & testing D.B of specified make but without MCB / ELMCB/MCCB/ SPD etc. with all internal bus bar, fixing accessories, nutral link, Earth link, Danger notice board etc. as per requirement and complete work in all respect as per drawing and as directed by Engineer-in Charge or his representative.<br><br>Note:<br>(1) SLD to be provided inside the door of DB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        | <b>2.1</b> | <b>VTPN Distribution Board :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| 112    | 2.1.1      | Supplying, erecting, testing and commissioning of VTPN D.B. with space for MCCB as incoming and space for 12SPMCB as outgoing per phase (i.e. 12 way VTPN D.B.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 1.00     |             | -             |                  |
| 113    | 2.1.2      | Supplying, erecting, testing and commissioning of VTPN D.B. with space for MCCB as incoming and space for 4 SPMCB as outgoing per phase (i.e. 4 way VTPN D.B.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 1.00     |             | -             |                  |
| 114    | 2.1.3      | Supplying, erecting, testing and commissioning of only VTPN D.B. with space for ELMCB as incoming and space for 8 SPMCB as outgoing per phase (i.e. 8 way VTPN D.B.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 1.00     |             | -             |                  |

| SL. No | ITEM NO.   | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 115    | 2.1.4      | Supplying, erecting, testing and commissioning of only VTPN D.B. with space for ELMCB as incoming and space for 4 SPMCB as outgoing per phase (i.e. 4 way VTPN D.B.).                                                                                                                                                                                                                                                                                            | No.  | 1.00     |             | -             |                  |
|        | <b>2.2</b> | <b>TPN Distribution Board :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               |                  |
| 116    | 2.2.1      | Supplying, erecting, testing and commissioning of Double door TPN D.B. with space for FPMCB as incoming and space for DPELMCB and 10 SPMCB as outgoing per phase (i.e. 12 way TPN D.B.) with 12 way PPI kit.                                                                                                                                                                                                                                                     | No.  | 4.00     |             | -             |                  |
| 117    | 2.2.2      | Supplying, erecting, testing and commissioning of Double door TPN D.B. with space for FPMCB as incoming and space for DPELMCB and 6 SPMCB as outgoing per phase (i.e. 8 way TPN D.B.) with 8 way PPI kit.                                                                                                                                                                                                                                                        | No.  | 7.00     |             | -             |                  |
|        | <b>2.3</b> | <b>SPN Distribution Board</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
| 118    | 2.3.1      | Supplying, erecting, testing and commissioning of Double door SPN D.B. with space for DPELMCB as incoming and 10 SPMCB as outgoing per phase (i.e. 12 way SPN D.B.)                                                                                                                                                                                                                                                                                              | No.  | 1.00     |             | -             |                  |
| 119    | 2.3.2      | Supplying, erecting, testing and commissioning of Double door SPN D.B. with space for DPELMCB as incoming and 6 SPMCB as outgoing per phase (i.e. 8 way SPN D.B.)                                                                                                                                                                                                                                                                                                | No.  | 1.00     |             | -             |                  |
|        | <b>2.4</b> | <b>MCB's and its Accessories</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               |                  |
|        |            | Supplying, Assembling, levelling, connecting & testing following MCB / ELMCB / Isolators etc in Distribution boards as specified in 2.1, 2.2 & 2.3 and as directed by EIC.                                                                                                                                                                                                                                                                                       |      |          |             |               |                  |
| 120    | 2.4.1      | 6 to 32 A SP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 188.00   |             | -             | -                |
| 121    | 2.4.2      | 40 to 63 A SP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.  | 2.00     |             | -             |                  |
| 122    | 2.4.3      | 6 to 32 A DP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 2.00     |             | -             |                  |
| 123    | 2.4.4      | 40 to 63 A DP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.  | 2.00     |             | -             |                  |
| 124    | 2.4.5      | 6 to 32 A TP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 7.00     |             | -             |                  |
| 125    | 2.4.6      | 40 / 63 A TP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 21.00    |             | -             |                  |
| 126    | 2.4.7      | 40 A DP Isolator                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 2.00     |             | -             |                  |
| 127    | 2.4.8      | 32 A FP Isolator                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 2.00     |             | -             |                  |
| 128    | 2.4.9      | 40 A DP ELCB (100mA) 2 pole 2 module                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 2.00     |             | -             |                  |
| 129    | 2.4.10     | 16 - 25 A DP ELMCB(ELCB+MCB) (100mA) 2 pole 2 module                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 3.00     |             | -             |                  |
| 130    | 2.4.11     | 32 A DP ELMCB(ELCB+MCB) (100mA) 2 pole 2 module                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 24.00    |             | -             |                  |
| 131    | 2.4.12     | 40 A DP ELMCB(ELCB+MCB) (100mA) 2 pole 2 module                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 9.00     |             | -             |                  |
| 132    | 2.4.13     | 63 A DP ELMCB(ELCB+MCB) (100mA) 2 pole 2 module                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 2.00     |             | -             |                  |
| 133    | 2.4.14     | 16 - 32 A FP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 2.00     |             | -             |                  |
| 134    | 2.4.15     | 40 A / 63 A FP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.  | 9.00     |             | -             |                  |
| 135    | 2.4.16     | 63 A FP ELMCB(ELCB+MCB) (100mA)                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 2.00     |             | -             |                  |
| 136    | 2.4.17     | Sheet steel metal encloser for SP MCB                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 2.00     |             | -             |                  |
| 137    | 2.4.18     | Sheet steel metal encloser for DP MCB                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 2.00     |             | -             |                  |
| 138    | 2.4.19     | Sheet steel metal encloser for FP MCB                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 2.00     |             | -             |                  |
| 139    | 2.4.20     | Blank Plates                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.  | 10.00    |             | -             |                  |
|        | <b>2.5</b> | <b>MCCBs &amp; Isolaters :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |             |               |                  |
|        |            | Supplying, Assembling, levelling, connecting, testing and commissioning of following 4 pole, 415V, 50Hz Thermal magnetic MCCB with inbuilt protection against earth fault, Over load and short circuit with trip free mechanism and required fixing accessories and hardware to complete the work as directed by Engineer-in-Charge or his representative. The MCCB shall have door interlocking facility.                                                       |      |          |             |               |                  |
| 140    | 2.5.1      | 100A FP MCCB (16 KA)                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 1.00     |             | -             |                  |
| 141    | 2.5.2      | 160A FP MCCB (16KA)                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.  | 1.00     |             | -             |                  |
|        | <b>2.6</b> | <b>Caution Board :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
| 142    | 2.6.1      | Caution boards of size 150 x 150 mm. to be supplied & fixed on the D.B. as per specification and as directed by EIC.                                                                                                                                                                                                                                                                                                                                             | No.  | 17.00    |             | -             |                  |
|        | <b>2.7</b> | <b>Surge Protection Devices (SPD)</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |             |               |                  |
|        |            | Supplying, Assembling, levelling, connecting & testing following VSPs etc in board. As per drawing /directed by EIC.                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
| 144    | 2.7.1      | 1.2KV Protection level FP, Class 's', (Imax-15KA, 8/20µs)                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 2.00     |             | -             |                  |
| 145    | 2.7.2      | 1.2KV Protection level DP, Class 's', (Imax-15KA, 8/20µs)                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 2.00     |             | -             |                  |
|        |            | <b>Sub Total 2.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               | -                |
|        | <b>3.0</b> | <b>Cable Trench</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |             |               |                  |
| 146    | 3.1        | Excavation and back filling of cable trenches required for laying the cables directly buried in the ground (Disposed earth to be leveled by breaking clods if any and neatly dressed). This includes supplying and providing cable markers at an interval of 10 meters. The depth and the width shall be as per requirement and as directed by Engineer-in-Charge.                                                                                               | Cum  | 200      |             | -             |                  |
| 147    | 3.2        | Supplying and spreading fine sand for a thickness of 100 mm. and providing and laying bricks for protection on cable on all the three sides as directed by Engineer-in-Charge..                                                                                                                                                                                                                                                                                  | Rmt  | 200      |             | -             |                  |
|        |            | <b>Sub Total 3.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               | -                |
|        | <b>4.0</b> | <b>Cables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
|        | 4.1        | Supply, testing and Laying XLPE steel/GI wire/flat armoured cable of 1100 V grade of Aluminum / Copper Conductor of following sizes in ready made trench or mounted on wall with necessary clamping arrangement or in pre-laid RCC hume pipe with necessary cable identification mark to be provided at regular distance and as instructed by Engineer-In-Charge. The vertical cable on wall shall be drawn in pre-laid conduit for vertical mechanical support. |      |          |             |               |                  |
|        |            | <b>Aluminum Cables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
| 148    | 4.1.1      | 150 sq.mm x 3.5 c Al. cable                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rmt  | 400.00   |             | -             |                  |
| 149    | 4.1.2      | 95 sq.mm x 3.5 c Al. cable                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 25.00    |             | -             |                  |
| 150    | 4.1.3      | 70 sq.mm x 3.5 c Al. cable                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 55.00    |             | -             |                  |
| 151    | 4.1.4      | 50 sq.mm x 3.5 c Al. cable                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 50.00    |             | -             |                  |
|        |            | <b>Copper Cables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
| 152    | 4.1.5      | 16 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rmt  | 100.00   |             | -             |                  |
| 153    | 4.1.6      | 10 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rmt  | 200.00   |             | -             |                  |
| 154    | 4.1.7      | 6 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  | 25.00    |             | -             |                  |
| 155    | 4.1.8      | 4 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  | 25.00    |             | -             |                  |
| 156    | 4.1.9      | 16 sq.mm x 3 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rmt  | 15.00    |             | -             |                  |
| 157    | 4.1.10     | 6 sq.mm x 3 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  | 15.00    |             | -             |                  |
| 158    | 4.1.11     | 2.5 sq.mm x 3 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt  | 25.00    |             | -             |                  |
|        |            | <b>Sub Total 4.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               | -                |
|        | <b>5.0</b> | <b>Cable Termination</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
|        | 5.1        | Supplying & fixing single compression type Brass glands (single compression for indoor application and double compression for outdoor applications) & making joint with necessary bi metallic crimping socket of long neck type lugs connecting the same to various equipment/panel/DB etc. for the following sizes complete in all respect as directed by the Engineer-in-Charge:                                                                               |      |          |             |               |                  |
|        |            | <b>Aluminum Cables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
| 159    | 5.1.1      | 150 sq.mm x 3.5 c Al.                                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 4.00     |             | -             |                  |
| 160    | 5.1.2      | 95 sq.mm x 3.5 c Al.                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 2.00     |             | -             |                  |

| SL. No | ITEM NO.   | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 161    | 5.1.3      | 70 sq.mm x 3.5 c Al.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 4.00     |             | -             |                  |
| 162    | 5.1.4      | 50 sq.mm x 3.5 c Al.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 2.00     |             | -             |                  |
|        |            | <b>Copper Cables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |             |               |                  |
| 163    | 5.1.5      | 16 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 4.00     |             | -             |                  |
| 164    | 5.1.6      | 10 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 2.00     |             | -             |                  |
| 165    | 5.1.7      | 6 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 2.00     |             | -             |                  |
| 166    | 5.1.8      | 4 sq.mm x 4 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 2.00     |             | -             |                  |
| 167    | 5.1.9      | 16 sq.mm x 3 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 2.00     |             | -             |                  |
| 168    | 5.1.10     | 6 sq.mm x 3 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 2.00     |             | -             |                  |
| 169    | 5.1.11     | 2.5 sq.mm x 3 c Cu. cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No.  | 2.00     |             | -             |                  |
|        |            | <b>Sub Total 5.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |             |               | -                |
|        | <b>6.0</b> | <b>Cable Tray</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        | 6.1        | Supply & Installation of hot dip GI ladder type cable tray with all accessories like coupler, GI nut bolts,bend, tee, reducer etc as per specification and drawings with all required hardware to complete the work in all respect as directed by EIC.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
| 170    | 6.1.1      | 150 x 50 made out of 2 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt  | 25.00    |             | -             |                  |
| 171    | 6.1.2      | 300 x 100 made out of 2 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  | 50.00    |             | -             |                  |
| 172    | 6.1.3      | 450 x 100 made out of 2 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  | 10.00    |             | -             |                  |
|        | 6.2        | Supply & Installation of hot dip GI Perforated type cable tray with all accessories like coupler, GI nut bolts,bend, tee, reducer etc as per specification and drawings with all required hardware to complete the work in all respect as directed by EIC:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |             |               |                  |
| 173    | 6.2.1      | 150 x 50 made out of 2 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt  | 50.00    |             | -             |                  |
| 174    | 6.2.2      | 300 x 50 made out of 2 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt  | 10.00    |             | -             |                  |
| 175    | 6.3        | Supplying , fabricating and installation of various sizes clamps for cable tray supports using available M.S. sections & rod as per drawings or instructions of engineer in charge or consultant including applying zinc chromate yellow oxide and two to three coats of required enamel paints with anchor fasteners etc.as shown in drawing/as directed by EIC. <b>Note: Sample to be get approved before execution.</b>                                                                                                                                                                                                                                                                                                                                                                                      | KG   | 300.00   |             | -             |                  |
| 176    | 6.4        | Supplying, Fabricating, assembling, hosting/erecting and Fixing in position at all heights and all leads of any size of 14 SWG MS box concealed / surface mounted as Floor JB/ wall JB/telephone junction box covered with 3 mm thick MS plate sheet including (a) cutting of components to required lengths/widths and shapes/profiled. (b) smooth matching of edges/faces. (c) welding at joints of built up sections/ for required weld length and sizes and supply and fixing of materials with required accessories to complete the work, painting with approved shade paint over two coat of zinc oxide chromate primer & associated civil works with tools, accessories to complete the work in all respect as directed by Engineer-in- Charge. <b>Note: Sample to be get approved before execution.</b> | KG   | 10.00    |             | -             |                  |
|        |            | <b>Sub Total 6.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |             |               | -                |
|        | <b>7.0</b> | <b>Internal Wiring</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |             |               |                  |
|        | 7.1        | The scope for each item of Point Wiring, includes Supply, Installation, Testing and Commissioning, including supplying all materials like Switches, Sockets, Concealed MS box/Surface mounted PVC Box, FRLS Wires, Conduits & accessories, Hardware, saddles & clamps, connectors, neutral links, ferrules, Cu lugs, Insulating Tapes, Identification Labels etc and all works like laying / jointing / clamping / bending of conduits, drawing of wires, installation of switch-boards, etc with higher scale of workmanship in open/concealed manner and in line level complete in all respect and testing & commissioning complete as per Instruction & Direction of Engineer-in-Charge or his authorized representative/s.                                                                                  |      |          |             |               |                  |
|        |            | Separate pipe should be taken for circuit mains. Nos of circuit of the same phases may be taken in same conduit (maximum 2 ckts). The point rate shall include all the necessary piping and wiring from sub panel / Distribution board to switch board & switch board to the light/fan/plug points / connector all inclusive except sub panel / Dist board. Further, the scope for unit rate of each item of Point Wiring also includes,                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               |                  |
|        |            | Wiring of points to be done in open/concealed manner in 25/32/40 mm dia medium gauge Rigid PVC FRLS pipe. Wiring shall be done with FRLS type copper flexible wire of 650V/1100V. Separate pipe should be taken for circuit mains. Nos of circuit of the same phases may be taken in same conduit (maximum 2 ckts).The circuit shall be laid in 25/40 mm dia medium gauge rigid PVC FRLS pipe. The point rate shall include all the necessary piping and wiring from sub panel / Distribution board to switch board & switch board to the batten holder / angle holder / connector / ceiling rose all inclusive except sub panel / Dist board.                                                                                                                                                                  |      |          |             |               |                  |
|        |            | Supply & Laying of 25mm dia, MMS, Electrical grade, ISI marked (IS-9537 : Pt-3), Rigid, Round PVC Conduits and accessories, hardware, solvent, saddles, clamps etc complete. The conduits shall be laid in concealed/open manner on wall/ceiling/column/beams/support stand, etc. as per site conditions and as instructed & directed by Engineer-in-Charge or his authorized representative/s.                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               |                  |
|        |            | Supply & Wiring with 1100 volt grade ISI marked PVC - FRLS insulated ISI marked(IS 694 with latest amendments) wires having flexible (multi strands) copper conductors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
|        |            | Supply & installation of modular type, ISI marked Switches, ISI marked (IS-1293) Sockets, surface mounted PVC Box with its necessary accessories, including connectors, brass chromium/cadmium plated screws, complete as required to complete the work and fixing the same on MS fabricated stand of square hollow section of height of 600 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               |                  |
|        |            | All the wiring & conduiting, from Distribution Boards to Switch boxes for Circuit Mains, from Switch boxes to switch boxes for Sub Circuit Mains, and from Switchboard to outlet Light/Fan/Power Points etc complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        |            | The size of the switch board shall be selected so as to accommodate the required no. of switches, sockets without overcrowding the box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
|        |            | The size of the wires shall be as follows : 3 nos. separate wires shall be drawn for Phase, Neutral and Earth for each point from the Switch Board to the Outlet Points of light/fan/plugpoints etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |             |               |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
|        |          | The wiring shall be done as per relevant prevailing standard. The looping of the wiring should be done in the switch boxes or light and fan point outlet boxes to avoid the junction boxes. The junction boxes and switch boxes for the ceiling light point, fan point etc shall be minimum 60/75 deep. All the necessary jarry in brick plastered walls should be done with machine cutter only , also jarry should be filled with cement, sand and wire mesh as required, the material cost for rough finish shall be included in point rate. Whenever pipes are required to be laid in flooring shall be of heavy guage.Wiring should be done as per distribution details. Each circuit should have dedicated phase, neutral & earth wire. Wire sizes to be used as under |      |          |             |               |                  |
|        |          | <b>For Light Points /fan point/ wall fan / 6A 3 Pin Plug</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               |                  |
|        |          | - DB to SB - 2.5sqmm for Phase & Neutral & 1.5 sqmm for Earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               |                  |
|        |          | - SB to Point - 1.5 sqmm for Phase & Neutral & Earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |             |               |                  |
|        |          | <b>For 6A plug point</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |             |               |                  |
|        |          | - 1.5 sqmm for Phase, Neutral & Earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               |                  |
|        |          | <b>For 6/10/16A general purpose plug point</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        |          | - 2.5 sqmm for Phase, Neutral & 1.5 sq. mm Earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
|        |          | <b>For 16A plug point for A/C and Geyser</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               |                  |
|        |          | - 4 sqmm for Phase, Neutral & 2.5 sq. mm Earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        |          | <b>For 20/32A plug point</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               |                  |
|        |          | - 6 sqmm for Phases, Neutral & 4 sq. mm Earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               |                  |
|        |          | <b>No zarry will be allowed in expose brick work. The conduit shall be provided when the walls are under construction. The pipes in slab shall be laid before the slab is casted.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               |                  |
| 177    | 7.1.1    | One light point controlled by one single way 6 A switch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.  | 68.00    |             | -             |                  |
| 178    | 7.1.2    | Loop light point controlled by same switch or SP MCB same as 7.1.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 50.00    |             | -             |                  |
| 179    | 7.1.3    | One light point controlled by two, two way 6 A switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 5.00     |             | -             |                  |
| 180    | 7.1.4    | One ceiling fan outlet point controlled by one 6 A switch and hum free electronic type step regulator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 7.00     |             | -             |                  |
| 181    | 7.1.5    | One 6 A x 5 pin 250 Volt socket outlet point controlled by one 6 A switch located on switch board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.  | 35.00    |             | -             |                  |
| 182    | 7.1.6    | 6 A x 5 pin 250 Volt switched socket outlet point at convenient location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 25.00    |             | -             |                  |
| 183    | 7.1.6a   | -Do- as above but looped with looped from above mentioned points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 20.00    |             | -             |                  |
| 184    | 7.1.7    | 6/16 A x 250 V switch socket point on one switch box for with 2.5 sqmm flexible wires and phase and neutral and 1.5 sq nm flexible Cu. wire as earth wire. The rate should include conduiting Upto DB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No.  | 30.00    |             | -             |                  |
| 185    | 7.1.8    | -Do- as above but looped with looped from above mentioned points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 20.00    |             | -             |                  |
| 186    | 7.1.9    | 6/16A x 250 Volt switched socket outlet point with 4 sq.mm wire for phase and neutral & 2.5 sq.mm earth wire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.  | 40.00    |             | -             |                  |
| 187    | 7.1.10   | -Do- as above but looped with looped from above mentioned points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 20.00    |             | -             |                  |
| 188    | 7.1.11   | Exhaust fan outlet point with 6A 5 pin socket controlled by one 5 single way switch located at different location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.  | 2.00     |             | -             |                  |
| 189    | 7.1.12   | 20 A(10 KA), 250 Volt metal clad socket outlet point with 20 Amp. SPMCB. And company fabricated powder coated sheet steel enclosure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 2.00     |             | -             |                  |
| 190    | 7.1.13   | 20 A x 440 Volt metal clad socket outlet point with 20 Amp. FPMCB but without wires.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 5.00     |             | -             |                  |
| 191    | 7.1.14   | 32 A x 440 Volt metal clad socket outlet point with 32 Amp. FPMCB but without wires.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 11.00    |             | -             |                  |
| 192    | 7.1.15   | 32 A 5 pin x 230 Volt (1 Phase) Metal clad socket outlet point with 32 Amp. DPMCB but without wires. (consider 32A 3 ph. Metal clad socket & top, convert in single phase)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No.  | 18.00    |             | -             |                  |
| 193    | 7.1.16   | 63 A x 440 Volt metal clad socket outlet point with 63 Amp. FPMCB but without wires.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 4.00     |             | -             |                  |
| 194    | 7.1.17   | 63 A 5 pin x 230 Volt (1 Phase) Metal clad socket outlet point with 63 Amp. DPMCB but without wires. (consider 63A 3 ph. Metal clad socket & top, convert in single phase)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No.  | 5.00     |             | -             |                  |
| 195    | 7.1.18   | SITC computer power supply point with 2 nos of 6 amp & 1 no. 6/16 amp 5 pin socket with 1 no 16 A Switch with indicator & wiring of computer point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 10.00    |             | -             |                  |
|        | 7.2      | <b>MAINS :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
|        |          | The mains is considered from the meter/sub panel to the individual distribution boards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |             |               |                  |
| 196    | 7.2.1    | Supplying and Providing mains with 4 nos. of 25 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and 2 nos 16 sqmm Cu. PVC insulated flexible wires with ISI approval for 650 V/ 1100 V as earth wires to be drawn in 40 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  | 25.00    |             | -             |                  |
| 197    | 7.2.2    | Supplying and Providing mains with 4 nos. of 16 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and 2 nos 10 sqmm Cu. PVC insulated flexible wires with ISI approval for 650 V/ 1100 V as earth wires to be drawn in 40 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  | 150.00   |             | -             |                  |
| 198    | 7.2.3    | Supplying and Providing mains with 4 nos. of 10 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and 2 nos 4 sqmm Cu. PVC insulated flexible wires with ISI approval for 650 V/ 1100 V as earth wires to be drawn in 40 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  | 330.00   |             | -             |                  |
| 199    | 7.2.4    | Supplying and Providing mains with 4 nos. of 6 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and 2 nos 2.5 sqmm Cu. PVC insulated flexible wires with ISI approval for 650 V/ 1100 V as earth wires to be drawn in 40 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  | 175.00   |             | -             |                  |
| 200    | 7.2.5    | Supplying and Laying mains with 2 nos. of 16 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and 1 no 10.0 sqmm Cu. PVC insulated flexible wires with ISI approval for 650 V/ 1100 V as earth wires to be drawn in 25 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt  | 250.00   |             | -             |                  |
| 201    | 7.2.6    | Supplying and Providing mains with 2 nos. of 6 sq mm Cu. PVC insulated flexible wire with approval for 650 V/ 1100 V and 1 nos 4.0 sqmm Cu. PVC insulated flexible wires with ISI approval for 650 V/ 1100 V as earth wires to be drawn in 25 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                              | Rmt  | 50.00    |             | -             |                  |
| 202    | 7.2.7    | Supplying and Providing mains with 3 nos. of 4 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and be drawn in 25 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  | 150.00   |             | -             |                  |
| 203    | 7.2.8    | Supplying and Providing mains with 3 nos. of 2.5 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and be drawn in 25 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rmt  | 25.00    |             | -             |                  |
| 204    | 7.2.9    | Supplying and Providing mains with 3 nos. of 1.5 sq mm Cu. PVC insulated flexible wire with ISI approval for 650 V/ 1100 V and be drawn in 25 mm diameter rigid PVC conduit of medium gauge having ISI approval with all necessary accessories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rmt  | 25.00    |             | -             |                  |
|        | 7.3      | <b>Raceway</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
| 205    | 7.3.1    | Supply and installation of Single compatement 100 mm x 50 mm wall trunking/race way with cover and all accessories made out of PVC As directed by EIC.<br><b>Note: Same to be get approved before execution.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rmt  | 25.00    |             | -             |                  |
|        |          | <b>Sub Total 7.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               | -                |
|        | 8.0      | <b>Light Fixtures &amp; Fans</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |

| SL. No | ITEM NO.      | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
|        |               | Supplying, erecting, connecting, testing and commissioning of Following type Light Fixture with all necessary Hardware, Internal Wiring with Lamp, Ballast/driver etc. all required accessories Complete in all respect. Cost includes wiring from outlet point to light fixtures and also wiring from first light fixtures to second light fixtures wherever provided on back to back (touching each other) arrangements as directed by Engineer-in-Charge.<br><b>Note: (1) Contractor have to take an approval for samples of hanging arrangement before execution.</b> |      |          |             |               |                  |
| 206    | 8.1           | Recessed Mounted 36/40W LED luminire with all accessories, equivalent to GE Make MELINIS - LCSR/100/236/65/NWH/V0 or CG make LCTLR-36-FO-CDL or Philips make Full Glow RC380B LED-30-6500 PSE OD WH.                                                                                                                                                                                                                                                                                                                                                                      | No.  | 3.00     |             | -             |                  |
| 207    | 8.2           | Recessed Mounted 18W LED downlight with all accessories, GE Make LDRR/100/618/65/NWH/V0 or CG make LCDD-18-CDL or Philips make BBS170 1xDLED -5000 PSU WH                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 68.00    |             | -             |                  |
| 208    | 8.3           | Surface Mounted 18W LED down lighter with all accessories, equivalent to CG make LCDSPL-R-18-CDL or Havells Endura LHEAAGP7IA2W018 or GE make.                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 2.00     |             | -             |                  |
| 209    | 8.4           | Surface Mounted 12W LED down lighter with all accessories, equivalent to CG make LCDSPL-R-12-CDL or Havells Endura LHEAAGP7IA2W012 or GE make.                                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 6.00     |             | -             |                  |
| 210    | 8.5           | Surface mounted 90W LED Highbay type fixture with all accessories, equalent to CG make - LHBB-90-CDL or havells make - LHELAWU7PA6S090 or GE make                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 12.00    |             | -             |                  |
| 211    | 8.6           | Surface mounted outdoor type 23W LED fixture with all accessories, equalent to CG make - LGSRS-23-W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No.  | 7.00     |             | -             |                  |
| 212    | 8.7           | Surface Mounted indoor type 5W LED type fixture with all accessories, equivalent to CG make LCL-5-CDL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 2.00     |             | -             |                  |
| 213    | 8.8           | Surface Mounted indoor type 18W / 20W LED type batten with all accessories, equivalent to CG make DMLN1LT8-20 or philips make ASTRA BNI50WLED I3S-6500 PSE OD GR or GE make 20W LED batten                                                                                                                                                                                                                                                                                                                                                                                | No.  | 10.00    |             | -             |                  |
| 214    | 8.9           | Surface Mounted outdoor type 16W/18W LED luminire with all accessories, equivalent to CG make IPFC111LT8-16 or GE make                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 5.00     |             | -             |                  |
| 215    | 8.10          | 48" Dia Sweep Ceiling Fan with Fan Hook as per approved color & high speed type equivalent to Crompton or USHA or Orient                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 6.00     |             | -             |                  |
| 216    | 8.11          | 36" Dia Sweep Ceiling Fan with Fan Hook as per approved color & high speed type equivalent to Crompton or USHA or Orient                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 1.00     |             | -             |                  |
| 217    | 8.12          | Heavy duty 305 mm. diameter propeller exhaust fans with safety gril, single phase 1400 RPM. Equivalent to Crompton or USHA or Orient                                                                                                                                                                                                                                                                                                                                                                                                                                      | No.  | 2.00     |             | -             |                  |
|        |               | <b>Sub Total 8.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               | -                |
|        | <b>9.0</b>    | <b>Earthing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |             |               |                  |
|        | 9.1           | Supply, Installation, Testing and commissioning of earthing stations including earthing chamber for equipment earthing as shown and specified in drawing complete with :                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               |                  |
| 218    | 9.1.1         | 3Mtr long Copper Bonded Earth Rod 10' x 5/8" made from high tensile low carbon steel and each rod should molecularly bonding 99.9% + Earthing. pure electrolytic copper to the low carbon steel core in accordance with national and international standards such as BS6651, BS7430 and UL467. Resistance Lowering Compound (30Kg) comprises specifically selected compounds, which possess excellent electrical conductivity to get the resistance value less than 0.4 ohm.                                                                                              | No.  | 5        |             | -             |                  |
|        | <b>9.2</b>    | <b>Earth wire/strips :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               |                  |
|        |               | Supply and laying cu. earthing required size strips for interconnecting the earthing stations, panels, DB's etc. in built up trenches/RCC/DWC hume pipe, on walls/ceiling, buried in ground with required fixing/jointing accessories to complete the work in all respect, generally as specified and shown on drawings complete with all respect as directed by Engineer-in-Charge :                                                                                                                                                                                     |      |          |             |               |                  |
|        |               | <b>a) Fixing accessories.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
|        |               | <b>b) Corrosion protection of buried conductors with bituminous coating and covered with PVC tapes.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |             |               |                  |
| 219    | 9.2.1         | 25 x 3 mm cu. Strip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 125.00   |             | -             |                  |
| 220    | 9.2.2         | No.8 gauge bare cu. earth wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt  | 75.00    |             | -             |                  |
| 221    | 9.2.3         | Earth Link : 40mm x 6 mm 1ft Long Cu.earth link fixed by necessary screws on wall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 2.00     |             | -             |                  |
|        |               | <b>Sub Total 9.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |             |               | -                |
|        | <b>10.0</b>   | <b>Miscellaneous</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |             |               |                  |
|        | <b>10.1</b>   | <b>PVC PIPES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |             |               |                  |
|        |               | Supplying and laying following sizes PVC pipe of approved make in open / recess manner including excavation and back filling (if required) as per layout and drawing and re-filling the trenches etc. complete as directed.                                                                                                                                                                                                                                                                                                                                               |      |          |             |               |                  |
| 222    | 10.1.1        | Heavy gauge pipe in Open / Concealed manner minimum 25 mm dia with GI pulling wire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 150.00   |             | -             |                  |
| 223    | 10.1.2        | Heavy gauge pipe in Open / Concealed manner minimum 32 mm dia with GI pulling wire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 10.00    |             | -             |                  |
| 224    | 10.1.3        | Heavy gauge pipe in Open / Concealed manner minimum 40 mm dia with GI pulling wire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  | 10.00    |             | -             |                  |
| 225    | 10.1.4        | Supplying & Erecting Rubber mat 1.1 KV grade ISI marked 1000 x 2000 x 6 mm size.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 2.00     |             | -             |                  |
|        | <b>10.2</b>   | <b>DWC PIPES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |             |               |                  |
| 226    | 10.2.1        | Supply & laying of 50 mm dia. Double wall corrugated(DWC) pre lubricated conduit for Fibre/Data Cable in ground but excluding cost of excavation and back filling                                                                                                                                                                                                                                                                                                                                                                                                         | Rmt  | 50.00    |             | -             |                  |
| 227    | 10.2.2        | Supply & laying of 150 mm dia. Double wall corrugated(DWC) pre lubricated conduit for Fibre/Data Cable in ground but excluding cost of excavation and back filling                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt  | 50.00    |             | -             |                  |
|        | <b>10.3</b>   | <b>HEAT / FIRE RESISTANT COATING OF CABLE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               |                  |
| 228    | 10.3.1        | Supply and application of intumescent based coating on cables/ cable tray using CP 678 firestop cable coating of HILTI make or equivalent .The coating shall have a density in the range of 1.2 to 1.4 Kg/ L. The coating shall be non-toxic, asbestos and halogen free and shall have good mechanical strength. The coating shall comply with IEC 332 part 3 (1992).                                                                                                                                                                                                     | KG   | 1        |             | -             |                  |
|        |               | <b>Sub Total 10.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |             |               | -                |
|        | <b>11.0</b>   | <b>Telephone, Data and Television Distribution</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               |                  |
|        | <b>11.1</b>   | <b>Telephone cable</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |             |               |                  |
| 229    | <b>11.1.1</b> | Supply, laying, Testing & termination of 10 Pair 0.5mm dia PVC insulated annealed and tinned copper armoured telephone cable in existing hume pipe or cable trench or cable tray complete in all respect with termination as per drawing and directed by Engineer-in-Charge.                                                                                                                                                                                                                                                                                              | Rmt  | 200.00   |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 230    | 11.1.2   | Supply, laying, Testing & termination of 20 Pair 0.5mm dia PVC insulated annealed and tinned copper armoured telephone cable in existing hume pipe or cable trench or cable tray complete in all respect with termination as per drawing and directed by Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                     | Rmt  | 200.00   |             | -             |                  |
| 231    | 11.2     | <b>Tag Blocks - Multipair Telephone Cable Termination</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |             |               |                  |
| 232    | 11.2.1   | Supply & fixing of 30 pair MDF unit with KRONE modules in a fabricated CRCA powder coated junction box of size 260x225x100 with two no. of pad-lock, provision for earthing & built-in protection for over-current and over-voltages by way of integrated IPM modules.                                                                                                                                                                                                                                                                                                                                                                                           | No.  | 1.00     |             | -             |                  |
|        | 11.3     | <b>Telephone / Data Networking/Television Cabling</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |             |               |                  |
| 233    | 11.3.1   | Supply, Installation, Testing & Commissioning of Telephone point including supply and laying of 0.2 pair 0.5 mm dia PVC insulated and tinned copper conductor unarmoured telephone cable including 25 mm dia ele. Grade HMS PVC conduit concealed in ceiling or wall , or floor or column, including supply and fixing of modular RJ- 11 I/O (Telephone socket) in a suitable size metal sheet flush box , suitable for modular I/O and covered with modular switch plates concealed in wall including supply of all fixing materials, complete as required & directed by Engineer-in-Charge (Wire to be drawn from Krone connector to Telephone out let point). | No.  | 15.00    |             | -             |                  |
| 234    | 11.3.2   | Supply, Installation, Testing & Commissioning of LAN and CCTV Point including supply and laying of UTP Cat 6A cable including 25mm dia ele. Grade HMS PVC conduit concealed in ceiling or wall , or floor or column, including supply and fixing of modular RJ- 45 I/O (Lan socket) suitable for cat-6A cable in a suitable size metal sheet flush box , suitable for modular I/O and covered with modular switch plates concealed in wall including supply of all fixing materials, complete in all respect as required and directed by Engineer-in-Charge. (Cable to be drawn from network rake to Lan point).                                                 | No.  | 25.00    |             | -             |                  |
| 235    | 11.3.3   | Supply & Fixing of 1 Pair Jumper wire (Roll of 1000 feet) of specified make for connection between MDF box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No.  | 1.00     |             | -             |                  |
| 236    | 11.4     | Supply, Installation, Testing & Commissioning of camera point with Supplying and laying of TV point with RG 11 cable in 25 mm dia elec grade PVC conduit concealed in ceiling or wall or floor or column, including supply and installing of TV socket suitable for TV cable in a suitable size metal sheet flush box, suitable for modular socket and covered with modular switch concealed in wall including supply of all fixing materials, complete in all respect as required and directed by Engineer-in-Charge.                                                                                                                                           | No.  | 2.00     |             | -             |                  |
|        |          | <b>Sub Total 11.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |             |               | <b>0.00</b>      |
|        | 12.0     | <b>Access Control System</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |             |               |                  |
| 237    | 12.1     | Supply, installation, testing and commissioning of IP Based 4 Door Controller with Enclosure & Power Supply including all accessories, complete in all respect to make it in working condition as per specification and as instructed by Architect/Engineer-in-Charge or his representative                                                                                                                                                                                                                                                                                                                                                                      | No.  | 1.00     |             | -             |                  |
| 238    | 12.2     | Supply, installation, testing and commissioning of Biometric Reader including all accessories, complete in all respect to make it in working condition as per specification and as instructed by Architect/Engineer-in-Charge or his representative                                                                                                                                                                                                                                                                                                                                                                                                              | No.  | 3.00     |             | -             |                  |
| 239    | 12.3     | Supply, installation, testing and commissioning of Exit Switch including all accessories, complete in all respect to make it in working condition as per specification and as instructed by Architect/Engineer-in-Charge or his representative                                                                                                                                                                                                                                                                                                                                                                                                                   | No.  | 3.00     |             | -             |                  |
| 240    | 12.4     | Supply, Installation, Testing and Commissioning of EMI Lock with door sensor including all accessories, complete in all respect to make it in working condition as per specification and as instructed by Architect/Engineer-in-Charge or his representative                                                                                                                                                                                                                                                                                                                                                                                                     | No.  | 3.00     |             | -             |                  |
| 241    | 12.5     | Supply, Installation, Testing and Commissioning of 8C - 0.75 Sqmm CU Shielded Flexible Cable including all accessories, complete in all respect to make it in working condition as per specification and as instructed by Architect/Engineer-in-Charge or his representative                                                                                                                                                                                                                                                                                                                                                                                     | Rmt  | 50.00    |             | -             |                  |
| 242    | 12.6     | Supply, Installation, Testing and Commissioning of 4C -0.75 Sqmm CU Shielded Flexible Cable including all accessories, complete in all respect to make it in working condition as per specification and as instructed by Architect/Engineer-in-Charge or his representative                                                                                                                                                                                                                                                                                                                                                                                      | Rmt  | 50.00    |             | -             |                  |
| 243    | 12.7     | Supply, Installation, Testing and Commissioning of Upgradation users Data base Management, Real-time alarm/event monitoring , Elevator control, Anti-passback processing ,card holder,log in -log out ,card holder history report etc. using Access control management software including all accessories, complete in all respect to make it in working condition as per specification and as instructed by Architect/Engineer-in-Charge or his representative                                                                                                                                                                                                  | No.  | 1.00     |             | -             |                  |
|        |          | <b>Sub Total 12.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |             |               | <b>0.00</b>      |
|        | 13.0     | <b>Fire Detection, Alarm and Control System</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |             |               |                  |
| 244    | 13.1     | Supply, Installation, Testing And Commissioning of UL Listed Analog addressable Multi Sensor smoke detector with mounting based LED, to programme the detectors, complete as per all requirements of technical specifications & contracts works.                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 53       |             | -             |                  |
| 245    | 13.2     | Supply, Installation, Testing And Commissioning of Heat Detector: UL Listed, Fixed temperature cum rate of rate of rise heat detector as per all requirements of technical specifications & contracts works                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No.  | 1        |             | -             |                  |
| 246    | 13.3     | Supply, Installation, Testing And Commissioning of UL listed, Flush or surface mounted Manual Call Point in manufacturers prescribed matching red enamel outlet box complete with key operated test-reset lock. The word FIRE shall appear in front of station as per all requirements of technical specifications & contracts works.                                                                                                                                                                                                                                                                                                                            | No.  | 3        |             | -             |                  |
| 247    | 13.4     | Supply, Installation, Testing And Commissioning of UI Listed Directional Sounders with 20 hz to 20 khz operating frequency with minimum 8 distinct sound patterns to indicate corridors, Exit doors, Move upward, move down ward etc. to direct Occupants for fast & safe Evacuation as specified in NFPA 72 - 2007 edition complete as per all requirements of technical specifications & contracts works.                                                                                                                                                                                                                                                      | No.  | 3        |             | -             |                  |
| 248    | 13.5     | Supply, Installation, Testing And Commissioning of UI Listed Ceiling / Wall Mounted Strobe with field selctable settings of 15,75 and 115 candela. UL/FM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  | 3        |             | -             |                  |
|        | 13.6     | Supply, Installation, Testing And Commissioning of UL Listed Addressable Interface Devices: Providing, fixing, testing and commissioning UL listed, modules complete with mounting arrangement on north American junction box as per technical specifications and all requirements of contract works. Following devices shall be used but not limited to:                                                                                                                                                                                                                                                                                                        |      |          |             |               |                  |
| 249    | a        | SITC of Control Module for activation of third party services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No.  | 4        |             | -             |                  |

| SL. No | ITEM NO. | ITEM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UNIT | QUANTITY | RATE in Rs. | AMOUNT in Rs. | SUB TOTAL in Rs. |
|--------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------------|---------------|------------------|
| 250    | b        | SITC ofisolator Module for fault isolator.                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 4        |             | -             |                  |
| 251    | 13.7     | Supply, installation, testing & commissioning of UL listed response indicator housed in suitable MS enclosure with acrylic cover fixed in flush with wall.                                                                                                                                                                                                                                                                                                             | No.  | 36       |             | -             |                  |
| 252    | 13.8     | Supply, Installation, Testing And Commissioning of Supply, Installation, Testing and Comissioning of 2 Core X 1.5 Sq.mm FRLS twisted pair shield 1.1 KV grade PVC insulated unarmoured copper conductor cable.                                                                                                                                                                                                                                                         | Rmt  | 500      |             | -             |                  |
| 253    | 13.9     | Supply & laying of 25 mm dia. Open/conceal manner heavy guage rigid PVC pipe with GI pulling wire concealed in wall/ceiling/column with all accessories                                                                                                                                                                                                                                                                                                                | Rmt  | 500      |             | -             |                  |
| 254    | 13.10    | Supply,installation,Testing & commissioning of Air sampling type Networkable Single Zone HSSD System, Auxiliary Programmable relays for Prealert / Alert / Action / Fire on board for FAS system. Detector capable of covering 900 Sqr Mtr area and having pipe length as 80 Mtrs. The laser detector shall have autocleaning of Laser chamber.It should have absolute smoke particle detection by laser beam and not change of algorithms or drift compensation type. | No.  | 1        |             | -             |                  |
| 255    | 13.11    | Supply,installation,Testing & commissioning of 24VDC,2A power supply unit with battery backup                                                                                                                                                                                                                                                                                                                                                                          | No.  | 1        |             | -             |                  |
| 256    | 13.12    | Supply,installation,Testing & commissioning of Sampling Pipes for Primary Sampling, smooth Inner Bore 21mm inner diameter & 25 mm outer diameter, Sch 40 PVC pipe Plenum rated with Fittings, Hi-Tech Supports, accessories and Sealing compound.                                                                                                                                                                                                                      | Rmt  | 85       |             | -             |                  |
| 257    | 13.13    | Supply, Installation, Testing And Commissioning of 2 Core X 1.5 Sq.mm FRLS twisted pair shield 1.1 KV grade PVC insulated armoured copper conductor cable.                                                                                                                                                                                                                                                                                                             | Rmt  | 300      |             | -             |                  |
| 258    | 13.14    | Supply, Installation, Testing And Commissioning of VHX1410 module for software integration.                                                                                                                                                                                                                                                                                                                                                                            | No.  | 1        |             | -             |                  |
|        |          | <b>Sub Total 13.0.....</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |             |               | -                |

| SUMMARY OF COST FOR CIVIL & PLUMBING (PH) ELECTRICAL                   |                                          |  |  |  |               |
|------------------------------------------------------------------------|------------------------------------------|--|--|--|---------------|
| DESCRIPTION                                                            |                                          |  |  |  | AMOUNT IN Rs. |
| <b>I - CIVIL WORKS</b>                                                 |                                          |  |  |  |               |
| A                                                                      | Demolition & Dismantling Works           |  |  |  | -             |
| B                                                                      | Earth Works                              |  |  |  | -             |
| C                                                                      | Concrete Works                           |  |  |  | -             |
| D                                                                      | Form Works                               |  |  |  | -             |
| E                                                                      | Reinforcement & Structural Steel Works   |  |  |  | -             |
| F                                                                      | Brick / Stone Masonry Works              |  |  |  | -             |
| G                                                                      | Plastering & External Finishing Works    |  |  |  | -             |
| H                                                                      | Water Proofing Works                     |  |  |  | -             |
| I                                                                      | Flooring Works                           |  |  |  | -             |
| J                                                                      | Painting Works                           |  |  |  | -             |
| K                                                                      | Aluminium Works                          |  |  |  | -             |
| L                                                                      | General Development Works                |  |  |  | -             |
| N                                                                      | False Ceiling Works                      |  |  |  | -             |
| O                                                                      | Miscellaneous Works                      |  |  |  | -             |
| <b>SUB TOTAL I</b>                                                     |                                          |  |  |  | -             |
| <b>II - PLUMBING WORKS</b>                                             |                                          |  |  |  |               |
| M                                                                      | Plumbing Works                           |  |  |  | -             |
| <b>SUB TOTAL II</b>                                                    |                                          |  |  |  | -             |
| <b>III - ELECTRICAL WORKS</b>                                          |                                          |  |  |  |               |
| 1                                                                      | MV Switchgear                            |  |  |  | -             |
| 2                                                                      | Distribution Board                       |  |  |  | -             |
| 3                                                                      | Cable Trench                             |  |  |  | -             |
| 4                                                                      | MV Cabling                               |  |  |  | -             |
| 5                                                                      | Cable Termination                        |  |  |  | -             |
| 6                                                                      | Cable Tray                               |  |  |  | -             |
| 7                                                                      | Internal Wiring                          |  |  |  | -             |
| 8                                                                      | Light Fixtures and Fans                  |  |  |  | -             |
| 9                                                                      | Earthing                                 |  |  |  | -             |
| 10                                                                     | Miscellaneous                            |  |  |  | -             |
| 11                                                                     | Telephone & Data Distribution            |  |  |  | -             |
| 12                                                                     | Access Control System                    |  |  |  | -             |
| 13                                                                     | Fire Detection, Alarm and Control System |  |  |  | -             |
| <b>SUB TOTAL III</b>                                                   |                                          |  |  |  | -             |
| <b>GRAND TOTAL Civil , Plumbing &amp; Electrical( I+II+III) in Rs.</b> |                                          |  |  |  | -             |
|                                                                        |                                          |  |  |  |               |
|                                                                        |                                          |  |  |  |               |
| <b>Service tax in %</b>                                                |                                          |  |  |  |               |
| <b>Service tax amount in Rs.</b>                                       |                                          |  |  |  | -             |
| <b>GRAND TOTAL( I+II+III) in Rs. Including Service Tax</b>             |                                          |  |  |  | -             |