

**Sub: Civil work of Unit#7 pertaining to renovation and retrofitting of ESP package of Singrauli STPS stage-II(2X500MW) for NTPC in Uttar Pradesh.**

**NIT NO.RMSG/MM&WC/SINGRAULI/T-02**

| <b>PRICE SUMMARY</b> |                    |                        |                       |
|----------------------|--------------------|------------------------|-----------------------|
| <b>SR. NO.</b>       | <b>ESTIMATE</b>    | <b>AMOUNT (IN RS.)</b> | <b>Weightage in %</b> |
|                      |                    |                        |                       |
| <b>1</b>             | <b>SCHEDULE- A</b> |                        | <b>98.4491</b>        |
|                      |                    |                        |                       |
| <b>2</b>             | <b>SCHEDULE- B</b> |                        | <b>1.5509</b>         |
|                      | <b>TOTAL</b>       |                        | <b>100.0000</b>       |

- Note:
- 1 Only Grand Total price of the complete package to be quoted by the bidder.
  - 2 Rate per unit for different items of the Price Schedule shall be derived from the percentage value assigned to that particular item and qty specified in the price schedule.

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**NIT NO.RMSG/MM&WC/SINGRAULI/T-02**

**PRICE SCHEDULE - A**

| ST. NO                                                                                                                                                                                                                                             | DESCRIPTION OF ITEM (Confidential:Controlled Circulation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UNIT | Quantity | UNIT RATE | AMOUNT (Rs.) | WIEGHTAGE TOTAL |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|--------------|-----------------|
| <b>100 EARTH WORK</b>                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |           |              |                 |
| Earth work In excavation, backfilling and disposal including necessary men/women, materials, equipment, loading, transportation, unloading, dewatering etc as per specification, drawing and as directed by engineer- in-charge for the following. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |           |              |                 |
| 101                                                                                                                                                                                                                                                | Earth work in excavation in <b>all types of soil including ash which can be excavated by any means</b> including setting out, levelling, dewatering (but excluding special type of dewatering viz. well point method), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 500 m, spreading/levelling of disposed materials etc all complete for following depths below ground level.                                                                                                                                                                         |      |          |           |              |                 |
| a                                                                                                                                                                                                                                                  | Depth from ground level but not exceeding 2 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 3850     |           |              | 0.85281         |
| b                                                                                                                                                                                                                                                  | Depth exceeding 2 m but not exceeding 4 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 3850     |           |              | 1.15982         |
| c                                                                                                                                                                                                                                                  | Depth exceeding 4 m but not exceeding 6 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 50       |           |              | 0.0196          |
| d                                                                                                                                                                                                                                                  | Depth exceeding 6 m but not exceeding 8 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 50       |           |              | 0.0288          |
| 102                                                                                                                                                                                                                                                | Extra over ST No. 101 for dewatering of ground water by <b>well point method</b> as per IS 9759.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CUM  | 2310     |           |              | 0.84428         |
| 103                                                                                                                                                                                                                                                | Earth work in excavation in <b>soft rock (rock without any recovery of excavated materials in the form of hard stone/boulder) including weathered rock which can be excavated by means of crow bar, pick axe, pneumatic rock breaker attachment with excavator machine etc but does not require chiselling or blasting</b> including setting out, levelling, dewatering (wherever required), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 500 m, spreading / levelling of disposed materials etc all complete for following depths below ground level. |      |          |           |              |                 |
| a                                                                                                                                                                                                                                                  | Depth from ground level but not exceeding 2 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 25       |           |              | 0.00814         |
| b                                                                                                                                                                                                                                                  | Depth exceeding 2 m but not exceeding 4 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 25       |           |              | 0.01285         |
| c                                                                                                                                                                                                                                                  | Depth exceeding 4 m but not exceeding 6 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 25       |           |              | 0.01528         |
| d                                                                                                                                                                                                                                                  | Depth exceeding 6 m but not exceeding 8 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 25       |           |              | 0.01739         |
| 106                                                                                                                                                                                                                                                | <b>Earth work in excavation in hard rock requiring chiselling</b> including wedging, line drilling, pre shearing etc as required, setting out, levelling, deawtering (wherever required), dressing the sides & bottom, all lifts, stacking/disposal of surplus excavated material within a lead upto 500m, spreading / levelling of disposed materials etc all complete for following depths below ground level.                                                                                                                                                                                                                                                                                         |      |          |           |              |                 |
| a                                                                                                                                                                                                                                                  | Depth from ground level but not exceeding 2 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 25       |           |              | 0.03893         |
| b                                                                                                                                                                                                                                                  | Depth exceeding 2 m but not exceeding 4 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 25       |           |              | 0.04098         |
| c                                                                                                                                                                                                                                                  | Depth exceeding 4 m but not exceeding 6 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 25       |           |              | 0.04447         |
| d                                                                                                                                                                                                                                                  | Depth exceeding 6 m but not exceeding 8 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CUM  | 25       |           |              | 0.05167         |
| 107                                                                                                                                                                                                                                                | Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with <b>selected materials from compulsorily excavated soil</b> available within a lead upto 500m and compacted as specified including re-excavation of stacked earth, watering, ramming/compaction by manual/mechanical means, dressing etc all complete.for the following.                                                                                                                                                                                                                                                   |      |          |           |              |                 |
| b                                                                                                                                                                                                                                                  | Each layer compacted so as to achieve at least 90% maximum dry density as per IS 2720 (Part-VII)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CUM  | 720      |           |              | 0.13237         |
| 108                                                                                                                                                                                                                                                | <b>Back filling</b> upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with selected materials <b>directly from excavation</b> and compacted as specified including watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.                                                                                                                                                                                                                                                                                                                      |      |          |           |              |                 |
| b                                                                                                                                                                                                                                                  | Each layer compacted so as to achieve at least 90% maximum dry density as per IS 2720 (Part-VII)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CUM  | 3600     |           |              | 0.63795         |
| 109                                                                                                                                                                                                                                                | <b>Extra over ST No. 101 and 103 to 107</b> for carriage of excavated earth/selected materials for every 1 km or part thereof beyond an initial lead of 500m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 6000     |           |              | 0.47846         |
| 110                                                                                                                                                                                                                                                | <b>Back filling</b> upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness <b>using/with approved borrowed soil</b> (borrowed soil to be arranged by the bidder) and compacted as specified including supplying borrowed soil, royalty (if any), watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.                                                                                                                                                                                                                                                   |      |          |           |              |                 |
| b                                                                                                                                                                                                                                                  | Each layer compacted so as to achieve at least 90% maximum dry density as per IS 2720 (Part-VII)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CUM  | 720      |           |              | 0.44816         |
| 111                                                                                                                                                                                                                                                | <b>Supplying and filling sand</b> upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted so as to achieve at least 80% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.                                                                                                                                                                                                                                                                                                                                            | CUM  | 720      |           |              | 0.95054         |
| <b>200 CONCRETE WORKS</b>                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |           |              |                 |
| <b>Providing and placing concrete work including cost of labour, materials and equipment for</b>                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |           |              |                 |
| 201                                                                                                                                                                                                                                                | <b>Concrete of grade M7.5</b> (1 part cement, 4 part sand, 8 parts of 40 mm graded aggregate by volume) as <b>filling course</b> at any depth below finished floor level, under and around foundations/floors, mass fill etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 363      |           |              | 2.36077         |
| 202                                                                                                                                                                                                                                                | <b>Concrete of grade M10</b> (1 part cement, 3 part sand, 6 parts of 40 mm graded aggregate by volume) as <b>lean concrete, levelling course</b> , mud mat under and around foundations/floors at any depth below finished floor level etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CUM  | 10       |           |              | 0.07454         |

|                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |  |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|----------|
| 203                                                                                                                                                                                                                                                                                                      | Concrete of <b>grade M15</b> (1 part cement, 2 part sand, 4 parts of 40 mm graded aggregate by volume) as <b>lean concrete, levelling course</b> , mud mat under and around foundations/floors at any depth below finished floor level etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CUM  | 10   |  | 0.08803  |
| 204                                                                                                                                                                                                                                                                                                      | Concrete under floors, paving, plinth protection, pipe encasing etc complete with 20 mm nominal size graded aggregate at any depth below finished floor level for the following grades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |  |          |
| b                                                                                                                                                                                                                                                                                                        | M20 Grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 10   |  | 0.09485  |
| 205                                                                                                                                                                                                                                                                                                      | Providing and laying Design Mix cement concrete conforming to IS:456 & IS 10262-2009 for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in <b>foundations/substructure, grade slab, paving, drains, under floors</b> etc at any level below finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to IS:9103 (latest) to achieve required slump in concrete all complete as per specification & drawing for the following                                                                                                                                                                                                                                                                   |      |      |  |          |
| a                                                                                                                                                                                                                                                                                                        | M25 Grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 1175 |  | 12.37338 |
| 206                                                                                                                                                                                                                                                                                                      | Providing and laying Design Mix cement concrete conforming to IS:456 & IS 10262-2009 for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in <b>superstructure</b> at any level above finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to IS:9103 (latest) to achieve required slump in concrete all complete as per specification & drawing for the following                                                                                                                                                                                                                                                                                                                           |      |      |  |          |
| a                                                                                                                                                                                                                                                                                                        | M25 Grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 10   |  | 0.11002  |
| 211                                                                                                                                                                                                                                                                                                      | Providing and <b>encasing</b> of structural steel member with <b>concrete</b> using nominal aggregate size of 12.5mm down. Encased member shall be wrapped with welded wire mesh/chicken wire mesh with proper lap etc. complete as per specification for the following grades. (Payment of welded wire mesh, chicken wire mesh shall be made separately)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |  |          |
| b                                                                                                                                                                                                                                                                                                        | M25 grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM  | 35   |  | 0.41059  |
| 212                                                                                                                                                                                                                                                                                                      | <b>Screed concrete</b> conforming to IS 456 with coarse sand and graded hard stone aggregate 12.5mm/6 mm nominal size on the roof at any level or thickness, drains etc complete as per following                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |  |          |
| a                                                                                                                                                                                                                                                                                                        | 1:2:4 (1 part cement, 2 part sand, 4 parts of aggregate by volume)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CUM  | 5    |  | 0.05149  |
| 213                                                                                                                                                                                                                                                                                                      | Providing and laying Design Mix cement concrete as per IS:456 & IS 10262-2009 for reinforced concrete works using graded aggregate for Concrete in <b>precast works</b> like roof slabs/trench covers, fins, lintels, chajjas, beams, columns, wall panels, facias etc. at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with M30 grade concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc. complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing for following grades |      |      |  |          |
| a                                                                                                                                                                                                                                                                                                        | M 25 grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CUM  | 5    |  | 0.08178  |
| 215                                                                                                                                                                                                                                                                                                      | <b>Dismantling concrete</b> work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unservicable material upto a lead of 2 km, cutting of reinforcement, labour, equipment, safety precautions etc all complete as per drawings, specification and instructions of engineer in charge                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |  |          |
| a                                                                                                                                                                                                                                                                                                        | Plain cement concrete of all grades                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CUM  | 325  |  | 1.30303  |
| b                                                                                                                                                                                                                                                                                                        | Reinforced cement concrete of all grades                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CUM  | 800  |  | 4.52764  |
| 216                                                                                                                                                                                                                                                                                                      | <b>Chipping of concrete</b> in reinforced concrete work, cutting pockets, making openings at all levels and according to shapes, disposal of waste materials upto a lead of 2 km as directed by engineer including equipment, safety precautions, making good the broken surface etc all complete as per specification, drawing, instructions of engineer in charge but excluding cutting of reinforcement                                                                                                                                                                                                                                                                                                                                                                                                           | CUDM | 50   |  | 0.0103   |
| 218                                                                                                                                                                                                                                                                                                      | Cutting Reinforced concrete with mechanised tools like Core drilling machine etc. for cutting pockets, holes, cores in slab, beam, column or foundation as per direction of engineer in charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CUDM | 50   |  | 0.01074  |
| 220                                                                                                                                                                                                                                                                                                      | Providing & laying Plum cement concrete 1:3:6 with 75% graded metal of maximum size 40 mm and 25% plums of maximum size 150 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CUM  | 50   |  | 0.37745  |
| <b>300 FORM WORKS</b>                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |  |          |
| Providing, fixing and removing formwork at any elevations for all structures, as per specifications and including all labour, material, scaffoldings and centering complete including pockets etc. complete as per drawing, specifications and as per direction of engineer in charge for the following. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |  |          |
| 301                                                                                                                                                                                                                                                                                                      | <b>Fairface form work</b> with good quality water proof ply wood of required thickness and smooth surface <b>below finished ground floor level</b> for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SQM  | 1445 |  | 0.99225  |
| 302                                                                                                                                                                                                                                                                                                      | <b>Fairface form work</b> with good quality water proof ply wood of required thickness and smooth surface <b>above finished ground floor level</b> for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches, circular overhead tanks etc. for all heights                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SQM  | 50   |  | 0.04353  |
| 304                                                                                                                                                                                                                                                                                                      | Providing, fixing and removing <b>formwork in block-outs/pockets</b> and openings (below 0.1 sqm plan area) at all elevations including cutting, formation of all shapes and all other operations required for making the required shape and size all complete as per specification, drawing and instruction of engineer in charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |  |          |
| a                                                                                                                                                                                                                                                                                                        | Upto 150 mm depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Each | 5    |  | 0.0041   |
| b                                                                                                                                                                                                                                                                                                        | Pockets of depths more than 150mm and upto 300 mm depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Each | 5    |  | 0.00425  |
| c                                                                                                                                                                                                                                                                                                        | Pockets of depths more than 300mm and upto 600 mm depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Each | 336  |  | 0.45475  |
| d                                                                                                                                                                                                                                                                                                        | Pockets of depths more than 600mm and upto 1000 mm depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 5    |  | 0.00939  |
| e                                                                                                                                                                                                                                                                                                        | Pockets of depths more than 1000mm and upto 1500 mm depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each | 5    |  | 0.01381  |
| <b>400 REINFORCEMENT</b>                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |  |          |
| 401                                                                                                                                                                                                                                                                                                      | Providing, straightening, cutting, bending, placing in position at any level, binding of <b>mild steel reinforcements</b> conforming to grade 1 of IS:432 part 1 in concrete including cost of reinforcement and binding wire, labour, scaffolding, transportation to & from stores etc. all complete as per specifications & drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MT   | 19   |  | 2.07689  |
| 402                                                                                                                                                                                                                                                                                                      | Providing, straightening, cutting, bending, placing in position at any level, binding in position of <b>steel reinforcements of TMT steel of grade Fe-500</b> conforming to IS:1786 including cost of binding wire, labour, scaffolding, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer.<br><b>Reinforcement shall be provided by M/S BHEL Free of cost.</b>                                                                                                                                                                                                                                                                                                                                                                                           | MT   | 375  |  | 6.00815  |

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| 406                                                                                                                                                                                                                                                                                           | Providing, straightening cutting, bending, placing in position at any level, binding of <b>mild steel reinforcements</b> in <b>brickwork</b> including cost of reinforcement and binding wire, labour, scaffolding etc. complete all as per specifications & drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MT      | 5   |  | 0.54797 |
| <b>600 JOINTS AND FILLERS</b>                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| <b>Joints &amp; fillers including all labour, material, equipment, transportation, handling etc at any level as per specification, drawings and as directed by engineer - in - charge.</b>                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| 602                                                                                                                                                                                                                                                                                           | Providing and applying <b>polysulphide based sealant</b> conforming to IS:12118 in expansion joints in concrete including cleaning of joints, raking out groove, application of primer, scaffolding etc. all complete for following size grooves:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |     |  |         |
| a                                                                                                                                                                                                                                                                                             | 12mm X 25mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RM      | 500 |  | 0.15838 |
| b                                                                                                                                                                                                                                                                                             | 20mmX25mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RM      | 250 |  | 0.12405 |
| c                                                                                                                                                                                                                                                                                             | 25mmX25mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RM      | 25  |  | 0.02193 |
| d                                                                                                                                                                                                                                                                                             | 50mmX25mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RM      | 25  |  | 0.04386 |
| 603                                                                                                                                                                                                                                                                                           | Supplying and filling in position hot applied <b>bitumin sealing compound</b> (Grade A) conforming to IS 1834 including cleaning, mixing, heating, pouring/injecting sealing compound in gaps in joints including application of primer etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |     |  |         |
| a                                                                                                                                                                                                                                                                                             | 10mm X 40mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RM      | 500 |  | 0.01329 |
| b                                                                                                                                                                                                                                                                                             | 12mm X 25mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RM      | 250 |  | 0.00498 |
| c                                                                                                                                                                                                                                                                                             | 20mmX25mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RM      | 25  |  | 0.00083 |
| <b>700 MS EMBEDMENTS</b>                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| <b>Embedments including all labour, material, equipment, transportation, handling etc. at any level as per specification, drawings and as directed by engineer - in - charge.</b>                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| 701                                                                                                                                                                                                                                                                                           | Supply, fabricating and fixing of mild steel embedments, inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc. including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MT      | 3   |  | 0.45897 |
| 702                                                                                                                                                                                                                                                                                           | Same as above with BHEL supplied material free of cost including loading, transportation, unloading etc. all complete from BHEL store to plant site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MT      | 3   |  | 0.14437 |
| 703                                                                                                                                                                                                                                                                                           | Fixing of embedments, inserts, pipe sleeves, angle pieces, anchor bolts of various diameters, plates of dimensions as required etc. including scaffolding, setting in position, transportation from BHEL site stores to work spot etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MT      | 3   |  | 0.09683 |
| 704                                                                                                                                                                                                                                                                                           | Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel foundation bolt assembly conforming to IS:2062 and grade 1 of IS:432 in concrete along with nuts, lock nuts (as per IS:1363, 1364 and IS:3138), washers, anchor plates, stiffner plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                       | MT      | 3   |  | 0.5691  |
| 705                                                                                                                                                                                                                                                                                           | Supplying, fabricating, erecting and installing following items in concrete/brickwall for all kind of works, including setting material in concrete, layout, scaffolding, cutting, forming, grinding, drilling, bolting, welding, jointing, testing etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |     |  |         |
| a                                                                                                                                                                                                                                                                                             | MS pipes of all diameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quintal | 1   |  | 0.01924 |
| b                                                                                                                                                                                                                                                                                             | PVC pipes / conduits of all diameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quintal | 1   |  | 0.03901 |
| d                                                                                                                                                                                                                                                                                             | Expansion fasteners (mechanical galvanised) of HILTI make or equivalent of safe tensile capacity as specified below for brick work with expansion sleeve of A6 polyamide:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |     |  |         |
| i                                                                                                                                                                                                                                                                                             | Upto 250 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each    | 25  |  | 0.01512 |
| ii                                                                                                                                                                                                                                                                                            | Beyond 250 Kg and upto 500 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each    | 25  |  | 0.02348 |
| iii                                                                                                                                                                                                                                                                                           | Beyond 500 Kg and upto 750 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each    | 25  |  | 0.03788 |
| e                                                                                                                                                                                                                                                                                             | Expansion fasteners (mechanical galvanised) of HILTI make or equivalent of safe tensile capacity as specified below for concrete work with expansion sleeve of stainless steel:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| i                                                                                                                                                                                                                                                                                             | Upto 250 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each    | 25  |  | 0.01789 |
| ii                                                                                                                                                                                                                                                                                            | Beyond 250 Kg and upto 500 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each    | 25  |  | 0.02725 |
| iii                                                                                                                                                                                                                                                                                           | Beyond 500 Kg and upto 750 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each    | 25  |  | 0.04281 |
| <b>800 GROUTING</b>                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| <b>Grouting including all labour, material, equipment, roughening surface, cleaning, ramming, curing etc. at any level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| 802                                                                                                                                                                                                                                                                                           | Providing & grouting for <b>pocket noles, pipe sleeves and under base plates</b> machinery, pipe supporting structures etc.including roughening of surface, cleaning, ramming, curing etc. all complete with nonshrink cementitious flowable grout of minimum Grade M-30. (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor). With mix 1:1 (1 cement:1sand) using non shrink admixture etc. all Complete.                                                                                                                                                                                                                                                                                                                                                                                    | CUM     | 61  |  | 3.27667 |
| 805                                                                                                                                                                                                                                                                                           | Providing & grouting for <b>equipment foundation</b> etc including roughening of surface, cleaning, ramming, curing etc. all complete with ready mixed nonshrink chloride free, cement based, free flowing, non metallic grout of minimum <b>Grade M-60</b> . (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CUM     | 1   |  | 0.13054 |
| <b>900 DOORS, WINDOWS, VENTILATORS, LOUVERS</b>                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| <b>Doors, windows, ventilators, louvers, roof ventilators, rolling shutters, partitions including all labour, material, equipments, transportation, handling, preparation of working drawings etc. at any level as per specification, drawings and as directed by engineer - in - charge.</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |     |  |         |
| 903                                                                                                                                                                                                                                                                                           | Providing, fitting and fixing <b>solid core flush door shutter</b> as per IS 2202 part II, 35mm thick homogenous particle board bonded with BWP type phenolformaldehyde synthetic resin, partial board core conforming to IS 3087 type I, 35x12 mm thick teakwood beading all around including preparation of working drawings. godrej or equivalent make mortice lock with handles on both sides, approved ISI mark anodised fittings like door stopper, 300mm long tower bolts, 16x300mm long aldrops, 125mm long handles on both sides etc. butt hinges, sliding bolt, knobs, (all fittings shall be anodised aluminium color dyed), finish synthetic paint over primer, screws etc. all complete as per drawing, specification and instruction of engineer in charge. with commercial faces and teak wood edges. (Finish painting said carpentry). | SQM     | 5   |  | 0.04223 |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |  |  |         |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|--|--|---------|
| 904 | Providing and fixing single or double steel door shutters with 45mm thk flush design shutter comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centres including void filled with mineral wool (density as per specification), all fittings, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SQM  | 5  |  |  | 0.06403 |
| 905 | Providing and fixing single or double steel door shutters with 18 gauge M.S. sheets shutter presenting a flush surface on the outside and inside stiffened with semitubular edge and central stiffening rail which shall convey the lock including fixtures, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SQM  | 5  |  |  | 0.05514 |
| 906 | Providing and fixing anodized extruded aluminium doors (single or double shutter) conforming to IS:1948, IS:1949 fabricated from extruded sections of HINDALCO/JINDAL or equivalent make having minimum 3mm wall thickness as per IS:1285, IS:733 and anodized and electro color coating of required shade as per IS 1868 ( minimum anodized coating of grade AC15 ). fixed with rawl plugs, expansion fasteners, SS screws / fixing clips necessary filling of gaps at Junctions, at top, bottom & sides with required PVC / neoprene felt for bi-metallic protection etc. Glazing shall be clear float glass of 6mm thickness including snap fit type beading, concealed screws, fixtures, Godrej or equivalent make Mortice lock with handle on both sides, etc all complete. Aluminium section shall be smooth, free of stains, straight, mitred & jointed mechanically wherever required. (Glazing shall be paid separately)                                                                                                                                                                                                                                                                                                                                                                                                | SQM  | 5  |  |  | 0.06015 |
| 907 | Providing and fixing fire proof steel doors (single or double shutter) with panic devices shall be 45mm thk flush design comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centres including all fittings, shop painting with approved post office/signal red color fire resistant paint and mineral wool insulation (64 kg/cum density) complete and shall be fire proof as per IS:3614, TAC requirements and as per specification. Minimum ratings shall be 2 Hrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SQM  | 5  |  |  | 0.1598  |
| 908 | Providing and fixing steel windows/ventilator with steel sections as per IS:1038, IS:1361 & IS:7452 latest revision including all fittings, metal beadings, hold fasts, shop and final painting glazing etc. all complete. (Glazing shall be paid separately)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |  |  |         |
| a   | openable type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SQM  | 5  |  |  | 0.03072 |
| b   | fixed type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SQM  | 5  |  |  | 0.02944 |
| 909 | Providing and fixing anodised aluminium work of Jindal, Hindalco or other equivalent approved make for door frames, windows, ventilators, partitions, railing etc with extruded standard tubular and other sections including all fittings & fixtures and accessories of approved make conforming to IS733 and IS1285, anodised and electro color dyed to required shade according to IS 1868 (minimum anodic coating of grade AC15), fixed with rawl plugs, expansion fasteners, SS screws or with fixing clips, including necessary filling of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt for bi-metallc protection etc.including preparation of working drawings, aluminium cleat angle, aluminium snap-on-beading for glazing/panelling, stair case tread nosing, with all fittings and fixtures (like tower bolts, handles, door stopper with rubber shoes, 'L' drops, stays, floor springs, hydraulic door closures etc.), CP brass/stainless steel screws, providing and fixing hinges/pivots, and making provision for fixing of fitting wherever required including cost of PVC/neoprene gasket, all complete as per drawing, specification and instructions of engineer in charge (Glazing and panelling shall be paid seperately).Weight of aluminium section only shall be measure. | Kg   | 25 |  |  | 0.0247  |
| 910 | Providing and fixing of aluminium composite panel(ACP) of following thickness with PVDF or polyester coating for interior partition of approved shade ,color etc all complete as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |    |  |  |         |
| a   | 3mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SQM  | 5  |  |  | 0.03475 |
| b   | 4mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SQM  | 5  |  |  | 0.07332 |
| c   | 5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SQM  | 5  |  |  | 0.08971 |
| 911 | Providing and fixing of door closers as per IS 3564 ,of approved make & quality all complete of following type :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |    |  |  |         |
| a   | Over head hydraulic door closures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Each | 3  |  |  | 0.01015 |
| b   | Floor mounted Hydraulic door closers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 3  |  |  | 0.01728 |
| 912 | Providing and fixing pressed steel frames fabricated from 16 gauge M.S sheet mortised, reinforced drilled and tapped for hinges and locks bolts strikes, hold fasts adjustable floor anchors, floor tiles/weather bars ,paintings etc all complete as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Kg   | 50 |  |  | 0.01218 |
| 913 | Providing and fixing in position rolling shutter of hot rolled double dipped galvanised steel lath section of 18 SWG tested mild steel strips at 75mm rolling centres interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs, top cover, primer & shop coats of approved enamel paint etc, all complete as per IS 6248 and specification of approved make of following types: The bottom lath shall be coupled to a lock plate fabricated from 3mm thick galvanised steel plate and securely rivetted with stiffening angles.(partly coiled and lath/full lath).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |  |  |         |
| a   | Hand Operated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SQM  | 5  |  |  | 0.03447 |
| b   | Mechanically Operated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SQM  | 5  |  |  | 0.04254 |
| c   | Electrically operated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SQM  | 5  |  |  | 0.07232 |
| 914 | Providing and fixing PVC doors(25 thk double skin) of sintex or equivalent make including all fitting & fixtures as per specification, drawing and instructions of engineer in charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SQM  | 5  |  |  | 0.02936 |
| 915 | Providing, fixing and fitting of glazing of first grade class in steel/aluminium/wooden frames, where ever required, cleaning after fixing including hardware, gaskets, clips, beadings etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |  |  |         |
| a   | 4 mm thick clear sheet glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SQM  | 5  |  |  | 0.00503 |
| b   | 4 mm thick clear float glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SQM  | 5  |  |  | 0.00585 |
| c   | 5.5 mm thick clear float glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SQM  | 5  |  |  | 0.0082  |
| d   | 6 mm thick wired glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SQM  | 5  |  |  | 0.00821 |
| e   | 6mm thick Polycarbonate sheet multi (twin) wall fire retardant and ultra violet resistant with sealed open edges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SQM  | 5  |  |  | 0.02318 |
| f   | 4 mm thick ground glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SQM  | 5  |  |  | 0.00622 |
| g   | 6 mm thick tinted heat reflecting type float glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SQM  | 5  |  |  | 0.01433 |

|                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                   |     |     |  |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|--|---------|
| h                                                                                                                                                                                                                    | 6 mm thick clear toughened safety glass                                                                                                                                                                                                                                                                                                                                                           | SQM | 5   |  | 0.01894 |
| i                                                                                                                                                                                                                    | Two nos. 6 mm thick clear toughened float glass hermetically sealed and separated by 12 mm thick air gap for thermal insulation (only single elevation area to be measured)                                                                                                                                                                                                                       | SQM | 5   |  | 0.032   |
| j                                                                                                                                                                                                                    | Two nos. 6 mm thick tinted toughened float glass hermetically sealed and separated by 12 mm thick air gap for thermal insulation (only single elevation area to be measured)                                                                                                                                                                                                                      | SQM | 5   |  | 0.03268 |
| k                                                                                                                                                                                                                    | One outer 6mm thick tinted heat-reflecting type float glass and one inner 6mm thick plain float glass hermetically sealed and separated by 12 mm thick gap for thermal insulation (only single elevation area to be measured).                                                                                                                                                                    | SQM | 5   |  | 0.03019 |
| l                                                                                                                                                                                                                    | 6 mm thick laminated glass                                                                                                                                                                                                                                                                                                                                                                        | SQM | 5   |  | 0.01333 |
| 916                                                                                                                                                                                                                  | Supplying and fixing <b>weather stripping</b> of approved make and quality to doors as per instructions of engineer in charge and specification complete.                                                                                                                                                                                                                                         | RM  | 5   |  | 0.00253 |
| 917                                                                                                                                                                                                                  | Providing and fixing <b>12 mm thick BWP particle board</b> , decorative veneer (prelaminated) on both sides, as panels in aluminium framed door shutter, fixed with necessary snap-on-beading etc. all complete (excluding aluminium works).                                                                                                                                                      | SQM | 5   |  | 0.01973 |
| 918                                                                                                                                                                                                                  | Providing and fixing <b>steel louvered window with ISMC 100 frame</b> all round including verticals with 18G pressed steel louvers, painting etc. all complete.                                                                                                                                                                                                                                   | SQM | 5   |  | 0.03325 |
| 919                                                                                                                                                                                                                  | Providing and fixing 1 mm thk. <b>MS sheet sliding shutters</b> with frame and diagonal braces of 50X50X6 angle iron, 3 mm MS gusset plates at junction and corners, 25 mm dia pulley, 50X50X6 angle and T-iron guide at the top and bottom respectively including painting etc. all complete.                                                                                                    | SQM | 5   |  | 0.06148 |
| <b>1000 BRICKWORK</b>                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                   |     |     |  |         |
| <b>Brickwork masonry including all labour, material, equipment, transportation, handling,</b>                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                   |     |     |  |         |
| 1001                                                                                                                                                                                                                 | Providing <b>brick work</b> in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions <b>below plinth</b> including raking out joints, curing, scaffolding etc. complete excluding plastering and painting                                                                                    |     |     |  |         |
| a                                                                                                                                                                                                                    | Using <b>fly ash lime bricks</b> confirming to IS 12894 with crushing strength of 75 kg/cm2                                                                                                                                                                                                                                                                                                       | CUM | 5   |  | 0.03183 |
| d                                                                                                                                                                                                                    | Using <b>burnt clay bricks</b> of class designation 5.0 of nominal dimension                                                                                                                                                                                                                                                                                                                      | CUM | 5   |  | 0.03632 |
| 1002                                                                                                                                                                                                                 | Providing <b>brick work</b> in cement mortar 1:6 (1 cement 6 coarse sand) in walls, chambers etc. in thickness 230mm at all heights, places and position <b>above plinth</b> including raking out joints, curing, scaffolding etc. complete excluding plastering and painting                                                                                                                     |     |     |  |         |
| a                                                                                                                                                                                                                    | Using <b>fly ash lime bricks</b> confirming to IS 12894 with crushing strength of 75 kg/cm2                                                                                                                                                                                                                                                                                                       | CUM | 21  |  | 0.173   |
| d                                                                                                                                                                                                                    | Using <b>burnt clay bricks</b> of class designation 5.0 of nominal dimension                                                                                                                                                                                                                                                                                                                      | CUM | 21  |  | 0.1589  |
| 1003                                                                                                                                                                                                                 | Providing <b>brick work</b> in cement mortar 1:4 (1 cement 4 coarse sand) in <b>partition walls</b> , chambers etc. in thickness 115mm at all heights, places and position above or below plinth/graded level including providing two nos. 6 mm diameter MS bars at every third layer, raking out joints, curing, scaffolding etc complete excluding plastering and painting as per specification |     |     |  |         |
| a                                                                                                                                                                                                                    | Using <b>fly ash lime bricks</b> confirming to IS 12894 with crushing strength of 75 kg/cm2                                                                                                                                                                                                                                                                                                       | SQM | 21  |  | 0.02475 |
| d                                                                                                                                                                                                                    | Using <b>burnt clay bricks</b> of class designation 5.0 of nominal dimension                                                                                                                                                                                                                                                                                                                      | SQM | 21  |  | 0.02717 |
| 1004                                                                                                                                                                                                                 | Providing <b>brick soling</b> including spreading of earth, ramming, watering including 25mm thick cushion of sand complete but excluding excavation and disposal of surplus earth (excavation and disposal of surplus earth shall be measured under applicable item). <b>Using brick on edge</b>                                                                                                 |     |     |  |         |
| a                                                                                                                                                                                                                    | Using <b>fly ash lime bricks</b> confirming to IS 12894 with crushing strength of 75 kg/cm2                                                                                                                                                                                                                                                                                                       | SQM | 3   |  | 0.00195 |
| d                                                                                                                                                                                                                    | Using <b>burnt clay bricks</b> of class designation 5.0 of nominal dimension                                                                                                                                                                                                                                                                                                                      | SQM | 3   |  | 0.00178 |
| 1005                                                                                                                                                                                                                 | Providing <b>brick soling</b> including spreading of earth, ramming, watering including 25mm thick cushion of sand complete but excluding excavation and disposal of surplus earth (excavation and disposal of surplus earth shall be measured under applicable item). <b>Using flat bricks</b>                                                                                                   |     |     |  |         |
| a                                                                                                                                                                                                                    | Using <b>fly ash lime bricks</b> confirming to IS 12894 with crushing strength of 75 kg/cm2                                                                                                                                                                                                                                                                                                       | SQM | 3   |  | 0.00167 |
| d                                                                                                                                                                                                                    | Using <b>burnt clay bricks</b> of class designation 5.0 of nominal dimension                                                                                                                                                                                                                                                                                                                      | SQM | 3   |  | 0.00117 |
| 1006                                                                                                                                                                                                                 | <b>Breaking</b> of existing brick work at all levels including plastering, removing the rubbish up to a distance of 500 m including transportation, loading, unloading etc. all complete as directed by the engineer                                                                                                                                                                              | CUM | 5   |  | 0.0095  |
| 1007                                                                                                                                                                                                                 | Providing and <b>encasing</b> of structural steel member with <b>masonry work</b> around flanges, webs etc. and filling the gap between steel and masonry by minimum 12mm thick mortar. Encased member shall be wrapped with chicken wire mesh with 50mm lap etc. complete as per specification. (Chicken wire mesh to paid separately)                                                           | CUM | 3   |  | 0.02115 |
| 1008                                                                                                                                                                                                                 | Providing and laying 75 mm thick bed of <b>dry brick aggregate</b> including of excavation, disposal of surplus earth spreading of earth, ramming, watering etc. complete in all respects as directed by the engineer.                                                                                                                                                                            | SQM | 50  |  | 0.01794 |
| 1009                                                                                                                                                                                                                 | <b>Making openings</b> in existing brick wall or partition wall including making good the broken edges/surface with cement mortar etc. complete.                                                                                                                                                                                                                                                  | CUM | 5   |  | 0.01274 |
| 1010                                                                                                                                                                                                                 | Supply and placing in position <b>mild steel wire fabric</b> of square mesh 25 mm size and wire diameter of 2 mm for encasing of steel sections in concrete including cutting, bending, fixing etc. complete.                                                                                                                                                                                     | SQM | 25  |  | 0.0139  |
| <b>1200 CEMENT MORTAR PLASTER</b>                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                   |     |     |  |         |
| <b>Cement mortar plaster including making grooves wherever required including all labour, material, scaffolding, curing etc at any level as per specification, drawings and as directed by engineer in - charge.</b> |                                                                                                                                                                                                                                                                                                                                                                                                   |     |     |  |         |
| 1201                                                                                                                                                                                                                 | Providing <b>18mm thick plaster</b> in two layers <b>outside</b> the building/boundary wall in cement mortar 1:6 on walls, finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete.                                                                                                                                            | SQM | 5   |  | 0.00168 |
| 1202                                                                                                                                                                                                                 | Providing <b>12mm thick plaster inside</b> the building/boundary wall in cement mortar 1:6 on walls finished to a smooth finish as per specification all complete.                                                                                                                                                                                                                                | SQM | 180 |  | 0.04585 |
| 1203                                                                                                                                                                                                                 | Providing <b>12mm thick plaster</b> in cement mortar 1:6 on walls with rough finish all complete.                                                                                                                                                                                                                                                                                                 | SQM | 10  |  | 0.00244 |
| 1204                                                                                                                                                                                                                 | Providing <b>6mm thick plaster on ceiling</b> in cement mortar 1:4 finished to a smooth all complete.                                                                                                                                                                                                                                                                                             | SQM | 65  |  | 0.01541 |
| 1205                                                                                                                                                                                                                 | Providing <b>12mm thick plaster in walls, drains/culverts</b> with a paste of <b>neat cement</b> @ 1kg/sqm and rubbed smooth with trowel etc. all complete.                                                                                                                                                                                                                                       | SQM | 150 |  | 0.0412  |

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| 1209                                                                                                                                                                                                                                | Providing and laying <b>encasement to box type steel beams</b> at all levels with lath plaster 50 mm nominal thickness with cement plaster (1:4) over chicken wire mesh including all labour, materials, equipment, handling, transporting, mixing, placing, leveling, curing and cleaning, finishing the exposed surfaces etc including centering and shuttering all complete as per specification, drawing and instructions of engineer in charge (chicken wire mesh to be paid separately)                                                                                                                                                             | SQM | 5 |  |  | 0.00309 |
| 1210                                                                                                                                                                                                                                | Ruled pointing in masonry in CM 1:3 (1 cement and 3 fine sand) including raking out joints, curing etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SQM | 5 |  |  | 0.00081 |
| <b>1300 FINISHES TO CONCRETE / PLASTERED SURFACES</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |   |  |  |         |
| <b>Finishes, painting to concrete, plastered surfaces including all labour, material, equipment, surface preparation, scaffolding etc. at any level as per specification, drawings and as directed by engineer - in charge.</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |   |  |  |         |
| 1301                                                                                                                                                                                                                                | Two or more coats of <b>white wash/ colour wash</b> as per IS 627 of approved brand and manufacture to give an even shade including a priming coat as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SQM | 5 |  |  | 0.00018 |
| 1302                                                                                                                                                                                                                                | Two or more coats of <b>Exterior masonry paint</b> (water or solvent base) of special resins, adhesives and additives mixed with fine, hard stone aggregate and suitable pigment. The paint shall be applied on a coat of primer over dried, prepared plaster surface as manufacturers guidelines. The final finished coating shall be fungus resistant, UV resistant, water repellent, alkali resistant and extremely durable with color fastness as per specification.                                                                                                                                                                                  | SQM | 5 |  |  | 0.0012  |
| 1303                                                                                                                                                                                                                                | Providing and applying two or more coats of <b>oil bound destemper</b> as per IS 428 of approved brand, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface as per manufacturers guideline.                                                                                                                                                                                                                                                                                                                                                                                           | SQM | 5 |  |  | 0.00083 |
| 1304                                                                                                                                                                                                                                | Two or more coats of <b>acrylic distemper</b> of approved brand and manufacture to give an even shade including a priming coat with distemper primer complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SQM | 5 |  |  | 0.00083 |
| 1305                                                                                                                                                                                                                                | Providing and applying two or more coats of <b>acrylic emulsion paint</b> as per IS 5411 of approved brand, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface as per manufacturers guideline.                                                                                                                                                                                                                                                                                                                                                                                       | SQM | 5 |  |  | 0.00132 |
| 1306                                                                                                                                                                                                                                | Providing and applying 2 or more coats of <b>acid/alkali resistant paint</b> of approved brand and colour to floors, walls and ceiling including preparation of surface to receive paint, providing and applying bitumen primer confirming to IS 158 complete all as per manufacturer's recommendations and as approved by engineer, at all heights above or below grade level complete as per specifications.                                                                                                                                                                                                                                            | SQM | 5 |  |  | 0.00349 |
| 1307                                                                                                                                                                                                                                | Two or more coats of <b>fire resistant transparent paint</b> as per IS 162 on all woodwork over french polish as per IS 348 or flat oil paint as per IS 137 of approved grade and manufacture to give an even shade as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                | SQM | 5 |  |  | 0.00439 |
| 1308                                                                                                                                                                                                                                | Two or more coats of black <b>anti-corrosive bitumastic</b> painting of approved brand and manufacture to give an even shade complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SQM | 5 |  |  | 0.00158 |
| 1309                                                                                                                                                                                                                                | Two or more coats of <b>synthetic enamel paint</b> of approved make made from synthetic resins and drying oil with rutile titanium dioxide and other selected pigments to give smooth, hard, durable & glossy finish to all interior and exterior surfaces complete.                                                                                                                                                                                                                                                                                                                                                                                      | SQM | 5 |  |  | 0.001   |
| 1310                                                                                                                                                                                                                                | Providing and applying 3 coats of <b>water proof cement paint</b> of approved make and color on exterior surface at all heights including material, labour, scaffolding, curing etc including primer coat complete as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                  | SQM | 5 |  |  | 0.00063 |
| 1311                                                                                                                                                                                                                                | Providing and applying <b>resin bonded granular textured finish, for external applications</b> shall consist of crushed stone/quartz chips of .5 mm to 2.5 mm size and of approved natural color/shade and bonded with synthetic resins, adhesives and additives altogether in a single pack mix, applied on cured and dried plaster surface with a dry film thickness of minimum 2 mm. The final finish shall have UV resistance, fungus, bacterial resistance properties all complete with grooves filled with poly sulfide sealant of matching color and shade as per specification/drawing/approval of engineer in charge.                            | SQM | 5 |  |  | 0.00492 |
| 1312                                                                                                                                                                                                                                | Providing and applying 2 mm thick <b>plaster of paris punning on walls</b> including preparation of surface, staging, etc. to achieve a smooth even surface all complete as per specification and as directed by Engineer.                                                                                                                                                                                                                                                                                                                                                                                                                                | SQM | 5 |  |  | 0.00075 |
| 1313                                                                                                                                                                                                                                | Providing and applying ready made <b>Epoxy Paint</b> over areas other than steel structure with suitable pigments of approved shade as per specification and direction of Engineer. The epoxy paint shall be a two pack material and shall be resistant to water, splash, spillage & acidic environment. The epoxy paint coating shall be of 150micron thickness over epoxy primer.                                                                                                                                                                                                                                                                       | SQM | 5 |  |  | 0.00383 |
| 1314                                                                                                                                                                                                                                | Providing and applying <b>Synthetic plaster for external applications</b> composed of synthetic fibre and petroleum based chemical similar to RENOVO or equivalent and of approved natural color/shade applied on cured and dried plaster surface. The final finish Paint shall have UV resistance, fungus, bacterial resistance properties all complete with grooves filled with poly sulfide sealant of matching color and shade as per specification/drawing/approval of engineer in charge.                                                                                                                                                           | SQM | 5 |  |  | 0.00536 |
| 1315                                                                                                                                                                                                                                | Providing and applying two or more coats of <b>Acrylic based weather coat paint</b> of approved brand and manufacture and required shade over one coat of primer after necessary cleaning/ washing, preparing the surface using coir brush/ wire brush, sand paper, including filling of cracks with putty wherever required etc. all complete to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface as per manufacturers guidelines. The final finished coating shall be fungus resistant, UV resistant, water repellent and extremely durable with color fastness as per specification.                     | SQM | 5 |  |  | 0.00143 |
| <b>1400 FLOORING AND SKIRTING</b>                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |   |  |  |         |
| <b>Flooring and skirting at any level including base layer, labour, material, equipments, transportation, handling, curing, polishing etc. at any level as per specification, drawings and as directed by engineer - in charge.</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |   |  |  |         |
| 1401                                                                                                                                                                                                                                | Providing and laying 50 mm thick <b>heavy duty cement concrete in flooring with metallic hardener pigmented topping</b> 12mm thick uniform graded treated iron particles in flooring. Under layer of 38mm thick cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates 12.5mm well graded) and top layer of 12mm thick metallic concrete of mix 1:2 (1 cement hardner mix with approved quality metallic hardening compound :2 stone aggregate 6mm nominal size) by volume including cement slurry, rounding off edges, aluminium strips etc. all complete for following (Quoted item rate shall be inclusive of providing glass joint strips): | SQM | 5 |  |  | 0.00434 |
| 1402                                                                                                                                                                                                                                | Providing and laying 25 mm thick <b>heavy duty cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates)</b> flooring with metallic hardener pigmented topping of 10 mm thick uniform graded treated iron particles in skirting and dado complete as per specification.                                                                                                                                                                                                                                                                                                                                                                           | SQM | 5 |  |  | 0.00445 |





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| <b>False ceiling including all labour, material, equipment, transportation, handling, suspension system etc at any level as per specification, drawings and as directed by engineer - in - charge.(clause no. 4.16.02 pg no. 30 of 58 of civil technical specification)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |         |
| 1606                                                                                                                                                                                                                                                                        | Providing and Fixing False ceiling system consisting of<br>Panel carriers/runners:<br>All air conditioned areas, shall be provided with, lineal pattern (closed type) of 100 mm nominal width, with carrier support<br>Prepainted .Coil coated consisting of 0.5 mm thick galvanized steel runners in profile of size 32mm x 39mm. These shall be suspended from roof structure by means of GI suspension angles, ceiling brackets and hold on clamps at 1200mm c/c alongwith exposed faces of galvanized members to be prepainted with regular modified polyester coating/super polysler coating minimum 20 DFT, to form panels of specified size for tile type panels and roll formed stove enameled 0.6mm thick steel carrier, for fixing lineal type panels by -clip on arrangement. uspended from RCC slab/ structural steel or calwalkway steel channel grid above With 4 mm (minimum) galvanized wires(rods), with special height arrangement clips providing angle section of mInimum 25 mm leg width along the perimeter of ceiling/members minimum 0.8 mm thick and galvanized@180g/sq.m. as per IS:277 | SQM     | 30  |  |  | 0.06891 |
| 1608                                                                                                                                                                                                                                                                        | Providing and Fixing under deck insulation provided on the ceiling (underside of roof slab) and underside of floor slab of air - conditioned areas depending upon the functional.requirements. This under deck insulation shall consist of 50 mm thick mineral wool insulation mat conforming 10 IS: 8183 having a density of 32 kg/cum for glass wool or 48 kg/cum for rock-wool, backed with 0.05mm thick aluminium foil and 24G x 25 mm mesh wire netting and shall be fixed to the ceiling with .14G wire ties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SQM     | 30  |  |  | 0.10862 |
| <b>1800 MISCELLANEOUS WORKS</b>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |         |
| <b>Miscellaneous works including all labour, material, equipment etc. at any level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.</b>                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |         |
| 1801                                                                                                                                                                                                                                                                        | <b>Providing and Filling in trenches, plinths, area paving and other underground structures with graded stone aggregate of size range 63 mm to 45 mm in layers not exceeding 230 mm in thickness including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CUM     | 654 |  |  | 1.92238 |
| 1807                                                                                                                                                                                                                                                                        | Providing and fixing <b>G.I strips</b> minimum 1.5mm thk and 150mm wide including fixing accessories etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Kg      | 50  |  |  | 0.02813 |
| 1808                                                                                                                                                                                                                                                                        | Providing and fixing <b>aluminium strips</b> minimum 18 SWG thk and 300mm wide over expansion joints with minimum lap of 50mm length including brass / aluminium screws, rawl plugs etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Kg      | 50  |  |  | 0.05139 |
| 1810                                                                                                                                                                                                                                                                        | Providing, laying and fixing <b>rails and guide rails in concrete</b> for transformer, rail track including cutting of rails, joining of rails, anchoring lugs etc all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MT      | 1   |  |  | 0.18296 |
| 1811                                                                                                                                                                                                                                                                        | Providing and fixing <b>weep holes</b> in Drains consisting of <b>100 mm dia HDPE pipe sleeves</b> with single side covering for the pipe mouth with galvanised welded wire fabric of 20 mm sq. opening covered with 40 mm downgraded aggregates in 300 X 300 mm sq and 300 mm deep size all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EACH    | 25  |  |  | 0.04314 |
| 1815                                                                                                                                                                                                                                                                        | Providing and fixing <b>GI rungs</b> in concrete/brick walls having zinc coating of <b>minimum 900 g/sqm</b> etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kg      | 50  |  |  | 0.0113  |
| 1822                                                                                                                                                                                                                                                                        | Cutting of <b>groove</b> of 10mm X 40mm size with groove cutting machine in concrete paving all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RM      | 50  |  |  | 0.00365 |
| 1828                                                                                                                                                                                                                                                                        | Dismantling old existing reinforced/non-reinforced brickwork/blockwork/stone masonry work in mud/lime/ cement mortar at any level including clearing/cleaning, stacking the serviceable materials at plant site and disposal of unserviceable materials within a lead upto1km all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CUM     | 50  |  |  | 0.08805 |
| 1830                                                                                                                                                                                                                                                                        | Dismantling old existing structural steel work at any level including plates, bolts, cutting rivets, welding, dismembering and stacking the dismantled materials within a lead upto 1km etc all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MT      | 5   |  |  | 0.10847 |
| 1831                                                                                                                                                                                                                                                                        | Sprinkling of water by water tanker fitted with perforated GI pipe (portable tanker minimum 3000 litre capacity) for roads and miscellaneous area within plant boundary, for dust supression and reduction of suspended material at site for day to day work, as directed by BHEL site engineer (water for this purpose shall be provided by BHEL free of cost and utilisation of machine will be in terms of Tank- hour put in actual use for water sprinkling).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TANK-HR | 50  |  |  | 0.02448 |
| <b>2200 SANITARY WORKS</b>                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |         |
| <b>Sanitary work including all labour, material, equipment etc. at any level as per specification, drawings and as directed by engineer - in - charge.</b>                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |         |
| 2208                                                                                                                                                                                                                                                                        | Providing, laying light duty non pressure <b>NP3 class RCC pipes</b> with collars jointed with stiff mixture of cement mortar 1:2 including testing of joints etc all complete for following.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |     |  |  |         |
| a                                                                                                                                                                                                                                                                           | 200mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RM      | 25  |  |  | 0.04364 |
| b                                                                                                                                                                                                                                                                           | 300mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RM      | 25  |  |  | 0.0675  |
| c                                                                                                                                                                                                                                                                           | 450mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RM      | 13  |  |  | 0.06796 |
| b-d                                                                                                                                                                                                                                                                         | 600mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RM      | 13  |  |  | 0.08025 |
| <b>2300 STRUCTURAL STEEL</b>                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |         |
| <b>Structural steel works including all labour, material, equipments, transportation, handling etc. at any level as per specification, drawings and as directed by engineer - in - charge.</b>                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |     |  |  |         |

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| 2301                     | <b>Supply, fabrication and erection of structural steel with mild steel rolled section / built up section / combination of both</b> conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052, mild steel rounds, monorails, stays, safety chains, ladders, MS grating etc. in columns, beams, gantry girders, bunkers, silos, hoppers, roof trusses, portals, laced purlins, space frames, hangers, struts, <del>monorails</del> , galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles, base plates, splice plates, chequered plate flooring, decking and seal plates, steel frame grid over false ceiling, walkway platforms, ladders, stairs, stringers, treads, landings, hand-rails etc including 2 coats of redoxide zinc-chromate primer (one coat at shop and one coat after erection), connection design & preparation of fabrication drgs, collection of steel from stores, fabrication, straightening, cutting, bending, rolling, grinding, machining, drilling, welding, electrodes and other consumables, alignment, erection bolts & nuts (weight of erection bolts, nuts and welds not payable), assembly, edge preparation, preheating (min preheat and interpass temperature of 20. C for welding over 20 mm and upto 40 mm & 66. C for welding over 40 mm and upto 63 mm & 110. C for thickness over 63 mm & use of low hydrogen/ radiogenic electrodes), post heating, testing of welders, inspection of welds, visual inspection, non destructive and special testing, rectification and correction of defective welding works, production test plate, inspection and testing, erection scheme, protection against damage in transit, stability of structures, installation of temporary structures, setting column bases, surface preparation by means of manual or mechanical power tools as per IS:1477 part 1, touch-up painting, rectification, dismantling and removal of all temporary structures (weight of temporary structures not payable), return of surplus / waste steel materials to store etc all complete. Including appointment of a separate agency, approved by BHEL, for review and approval of fabrication drgs, in consultation with BHEL. | MT   |    |  |  |         |
| a                        | <b>Fabrication</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MT   | 3  |  |  | 0.0583  |
| b                        | <b>Erection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MT   | 3  |  |  | 0.0583  |
| 2302                     | Extra over ST NO. 2301 for <b>blast cleaning of steel structures</b> to near white metal surface(Sa 2 1/2 ) and applying epoxy based zinc phosphate primer in coats of minimum 25 micron (DFT) at shop and 25 micron (DFT) after erection, instead of primer coat of red oxide zinc-chromate, including <del>touch-up painting etc all complete.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MT   | 3  |  |  | 0.02507 |
| 2304                     | <b>Extra over ST No. 2301</b> for providing and applying two coats of <b>synthetic enamel paint</b> with minimum 50 micron total dry film thickness (DFT) of approved make and shade to achieve an even shade over steel sections already having primer coats and keeping overall DFT with primer not less than 110 microns including protection and cleaning, scaffolding etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MT   | 3  |  |  | 0.01073 |
| 2307                     | Supplying, fabrication, erection and alignment of <b>factory made electroforged galvanised grating units</b> with mild steel (having minimum galvanisation of 610 g/sqm) conforming to IS:2062 in flooring, platforms, drain and trench covers, walk- ways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MT   | 5  |  |  | 1.23792 |
| 2312                     | <b>Dismantling of steel structure</b> , lowering of material and carriage of the dismantled material up to field fabrication shop / projects storage including temporary dismantling, cutting, re-welding, supporting, and restoring to correct position all temporarily dismantled members, re-alignment of all adjacent connected members to their correct positions ( weight of such adjacent members and temporarily dismantled members not payable), scaffolding, staging, tools & tackles, gas cutting, <del>welding consumables etc all complete.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MT   | 5  |  |  | 0.08917 |
| 2321                     | Conducting <b>radiography test on welds</b> wherever specified including equipments, measuring devices, gauges, test report etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RM   | 25 |  |  | 0.1282  |
| 2322                     | Conducting <b>ultrasonic test on welds</b> wherever specified including equipments, measuring devices, gauges, test report etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RM   | 25 |  |  | 0.08423 |
| 2323                     | Conducting <b>ultrasonic test on steel plates</b> as per ASTM-A435 or equivalent wherever specified including equipments, measuring devices, gauges, test report etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SQM  | 10 |  |  | 0.04942 |
| 2324                     | Conducting <b>magnetic particle test on welds</b> wherever specified including equipments, measuring devices, gauges, test report etc. all complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RM   | 25 |  |  | 0.07509 |
| 2325                     | Conducting <b>dye penetration test on welds</b> wherever specified by the engineer including provision of necessary equipments, measuring devices, gauges etc. all complete (over and <del>above the work already specified in the specifications.</del> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RM   | 25 |  |  | 0.07775 |
| 2326                     | Painting of steel surfaces embedded in Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |  |  |         |
| a)                       | For the portion of steel surfaces embedded in Concrete, the surface shall be prepared by manual Cleaning and provided with Primer Coat of Chlorinated Rubber based Zinc Phosphate Primer of minimum 50 micron Dry Film Thickness (DFT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MT   | 3  |  |  | 0.02955 |
| b)                       | All threaded and other surfaces of foundation bolts and its materials , insulation pins, Anchor channels, Sleeves etc shall be coated with temporary rust preventive fluid and during execution of Civil works, the dried film of coating shall be removed using organic solvents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MT   | 3  |  |  | 0.02955 |
| 2327                     | Painting of steel surfaces (other than those embedded in concrete including steel doors, rolling shutters, windows, in all indoor & outdoor structures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |    |  |  |         |
| a)                       | i) All steel surfaces shall be provided with self curing inorganic Zinc Silicate Primer Coat (Solid by Volume 60%) of minimum 75 micron dry film thickness (DFT) apply over blast cleaned surface to near white metal confirming to SA 2 1/2 finish of swedish standard SIS- 05-5900. The primer coat shall bve applied in shop immediately after blast cleaning by air less spray technique.<br>ii) Primer coat shall be followed with the application of intermediate coat of polyamide cured pigmented Titanium Dioxide (TiO2) or micaceous iron oxide (MIO) Epoxy based paint (Solid by volume minimum 60%) of minimum 75 micron DFT. This coat shall be applied in shop afre an interval of minimum overnight (from the application of primer coat) by airless spray technique.<br>iii) Intermediate coat shall be followed with the application of finished coat of polyamide cured colour pigmented epoxy based paint (solid by volume minimum 60%) of minimum 75 micron DFT. This coat shall be applied after an interval of minimum overnight and maximum indefinite (from the application of intermediate coat) either before erection by airless apray technique or after erection by brusah and / or spray. Colour and shade of the coat shall be as approved by the Employer. the finished coat thickness of 75micron can be built up either in single application at shop or in two applications one at shop and the other at site.<br>iv) Finish Coat shall be followed with the application of final finished coat of Polyurethane based colour pigmented paint (solid by volume minimum 40%) of minimum 25 microns DFT. This coat shall be applied within seven (7) days (from the completion of finished coat), after erection by brush and / or spray. Colour and shade of the coat shall be as approved by the Employer.                                                                                                                                                                                                                                                                                                                                                                                                                                        | SQM. | 10 |  |  | 0.00258 |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |  |  |         |
| <b>2500 PILING WORKS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |  |  |         |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |  |  |            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|--|--|------------|
| 2501                | Mobilisation of hydraulic rotary piling rigs and accessories capable of pile boring/drilling in all types of strata/installing various size of bored cast in situ RCC piles to project site and demobilisation of the same after completion of piling works etc all complete <b>Clause no. 1.3.3 of errata/Amendment No.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LS   | LS  |  |  | 2.29042    |
| 2502                | Mobilisation of conventional DMC/RMC piling rigs and accessories capable of pile boring/drilling in all types of strata/installing various size of bored cast in situ RCC piles to project site and demobilisation of the same after completion of piling works etc all complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LS   | LS  |  |  | 0.66096    |
| 2503                | and length as specified (length to be measured from pile cut-off level to the bottom of pile) using cement concrete grade M25 conforming to IS:456 with 20 mm nominal size stone aggregates with a minimum cement content of 400Kg per cum of concrete including providing all materials (but excluding reinforcement steel for which measurement/payment shall be made separately), boring/drilling in all types of soil, providing bentonite slurry and/or casing for stabilization of pile bore, flushing of pile bore, cleaning, providing plasticizer wherever required, breaking pile head to cut off level and exposing pile reinforcement for embedment in pile cap etc including empty boring from ground level to pile cutoff level etc all complete as per specification, drawing and as directed by the engineer-in-charge for the following.<br>Note:<br>1) No compansation shall be made towards additional qty. of cement beyond 400kg/Cum. for concrete mix design.<br>Note: Length of pile mentioned is indicative only and may vary as per site condition. |      |     |  |  |            |
| d                   | Pile with 600 mm diameter and 20 m length below cut off level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Each | 213 |  |  | 33.50588   |
| 2504                | Extra over ST. No. 2503 for pile length more than the specified length of 20m below cut off level for the following.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |  |  |            |
| c                   | For 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rm   | 532 |  |  | 3.35498    |
| 2505                | Rebate on ST.No.2503 for pile length less than the specified length of 20m below cut off level for the following.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |     |  |  |            |
| c                   | For 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rm   | -50 |  |  | -0.03721   |
| 2506                | Extra over ST.No.2503 for boring/drilling in rock for a length not exceeding 4 times the diameter of pile, cleaning the pile hole, concreting etc all complete for the following.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |     |  |  |            |
| c                   | For 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rm   | 852 |  |  | 8.03782    |
| 2507                | Conducting initial load test upto a maximum test load of 3.0 times the safe load capacity on single pile as specified in accordance with IS 2911 (Part-4) including preparation of pile head for testing, necessary excavation, all arrangements of loading, unloading, test equipments/accessories, jacks, recording of results, labour, submission of test report but excluding the cost of installation of pile (installation of pile shall be paid seperately) etc all complete as per specification, drawing and as directed by engineer in-charge for the following                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |  |  |            |
| a                   | For vertical compression test by cyclic load method as per <b>Clause no. 1.03.04 of errata/ammaendment No.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |  |  |            |
| iii                 | 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each | 1   |  |  | 0.37842    |
| b                   | For lateral load test as per Clause no. 1.03.04 of errata/ammaendment No.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |  |  |            |
| iii                 | 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each | 1   |  |  | 0.10898    |
| c                   | For tension/uplift test as per Clause no. 1.03.04 of errata/ammaendment No.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |  |  |            |
| iii                 | 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each | 1   |  |  | 0.15371    |
| 2508                | Conducting routine load test upto 1.5 times the allowable pile capacity on single job pile as specified in accordance with IS 2911 (Part-4) including preparation of pile head for testing, necessary excavation, providing all arrangements of loading, unloading, test equipments/accessories, jacks, recording of results, labour, submission of test report etc but excluding the cost of installation of job pile complete as per specification, drawing and as directed by the engineer-in-charge for the following                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |  |  |            |
| a                   | For vertical compression test by direct load methodas per <b>Clause no. 1.03.04 of errata/ammaendment No.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |  |  |            |
| iii                 | 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each | 2   |  |  | 0.50502    |
| b                   | For lateral load test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |  |  |            |
| iii                 | 600 mm diameter pile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each | 2   |  |  | 0.17439    |
| 2509                | Carrying out <b>low strain pile integrity test</b> on 600mm diameter pile including all arrangements for test, equipments/accessories, materials, labour, submission of test report etc but excluding the cost of installation of job pile all complete as per specification and as directed by the engineer-in-charge. <b>Clause no. 1.03.04 of Errata/AmendmentNo.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Each | 220 |  |  | 0.60135    |
| <b>Total Amount</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |  |  | <b>100</b> |

**Sub: Civil work of Unit#7 pertaining to renovation and retrofitting of ESP package of Singrauli STPS stage-II(2X500MW) for NTPC in Uttar Pradesh.**

**NIT NO.RMSG/MM&WC/SINGRAULI/T-02**

**PRICE SCHEDULE - B(EARTHING WORKS)**

| <b>Item No.</b> | <b>Description</b>                                                                                                                                                                                                                                                                      | <b>Unit</b>         | <b>Quantity</b> | <b>Unit Rate (In Rs.)</b> | <b>WEIGHTAGE OF TOTAL AMOUNT (%)</b> |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|---------------------------|--------------------------------------|
| <b>1</b>        | <b>2</b>                                                                                                                                                                                                                                                                                | <b>3</b>            | <b>4</b>        |                           |                                      |
| 1               | Supplying &Laying & fixing of 65x8mm GI Strip conductor as per specifications and standard practice. The rate shall include the supply & services of 65x8mm thick GI Strip.                                                                                                             | RM                  | 200             |                           | 12.65495                             |
| 2               | Supplying and Laying of earthing mats/rods including risers, transportation from yard stores, loading, unloading, cutting to length, welding, protective painting of joints etc. all complete. (Excavation & Back filling shall be paid separately under respective item of earth work. | MT                  | 12.000          |                           | 64.99395                             |
| 3               | Providing Earthing pit as per drawing with charcoal & salt, GI pipes, GI earth electrodes, GI wire, GI strips, brick chamber with covers including associated earthwork etc. all complete                                                                                               | EACH                | 12              |                           | 19.77584                             |
|                 |                                                                                                                                                                                                                                                                                         | <b>TOTAL AMOUNT</b> |                 |                           | 100                                  |