



# **BHARAT HEAVY ELECTRICALS LIMITED**

## **(Name of work-transformer Civil Work)**

| <b>SL.NO.</b> | <b>DSR 2016 Reference</b> | <b>Description of Items</b>   | <b>Unit</b> | <b>Quantity</b> |
|---------------|---------------------------|---|-------------|-----------------|
| 1             | 1.1.2/68                  | Carriage of material by Mechanical Transport including loading, unloading & stacking up 1 km ----Earth.   | cum         | 103             |
| 2             | 2.6.1/76                  | Earth work in excavation by mechanical means( Hydraulic Excavator)/ manual means over areas ( exceeding 30 cm in depth,1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth load up to 50 m and lift up to 1.5 m as directed by engineer Incharge .....all kinds of soil.  | cum         | 341             |
| 3             | 2.25/79                   | Filling available excavated earth (excluding rock) intrenches, plinth, sides of foundations etc. in layer exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.   | cum         | 238             |
| 4             | 4.1.8/88                  | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering -all work up to plinth level 1:4:8 ( 1 cement : 4 coarse sand (Zone III) : 8 graded stone aggregate 40mm nominal size.   | cum         | 15              |
| 5             | 5.33.1/102                | Proving and laying in position machine batches and machine mixed design mix M-25 grade cement concrete for reinforced concrete work, using cement content as per approved design mix including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement of including admixures in recommended proportions as per : 9103 to accelerate ,retard setting of cement concrete, improve workability without impairing strength and durability as per direction of Engineer Incharg(Note-cement content considered in this item is @ 330 Kg/cum. excess /less cement used as per design mix is payable/recoverable seperately).....all work up to plinth level. | cum         | 88              |
| 6             | 5.9.1/98                  | Centering and shuttering including strutting, propping etc. and removal of form for all heights.... Foundations, Footings, bases of columns,etc. for mass concrete.   | Sqm         | 247             |

|   |           |  |    |      |
|---|-----------|--|----|------|
| 7 | 5.22.6/98 | Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete up to plinth level....Thermo- Mechanically Treated bars of grade Fe-500D or more. | Kg | 4460 |
|---|-----------|--|----|------|



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|--------|--------------------|--|------|----------|
| 8      | 10.2/182           | Structural steel work riveted, bolted or welded in built up sections, trusses and frame work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.   | Kg   | 370      |
| 9      | 10.19/185          | Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.   | Kg   | 37       |
| 10     | DSR 2016           | All items as per DSR 2016.   | Unit | 1        |
| 11     | Ns-1               | Fabrication and erection of structural steel works at all heights(Maximum height up to 30.0 M ) consisting of railing, clamps, purlins with channels & angles, M.S. flat, M.S Tubes, supports including all connections as per detailed drawings connected steel works, etc. cleats, gussets plates all bolts, nuts, washers, base plates, anchor bolts etc. ....as per detailed drawings cutting welding and painting 1 coats of red oxide primer before erection & 2 coats of synthetic enamel paint/Aluminium paint of approved brand & colour after erection complete. Advani made electrodes or other approved make electrodes are to be used. All bolts, nuts, washers, gas, electrodes are in contractor's scope. Fabrication to be done as per I.S. code of latest revision.( All the materials are in contractor scope except the structural steel. Structural steel shall be provided by BHEL free of cost.) (Make of paint and primer shall be Asian, Burger, Narolac and Salimar). | Kg   | 1442     |