

### BOQ

**Name of Work: Repairing and renovation of damaged boundary fencing and protection wall of switchyard at 132/33kV Rangia GSS.**

Name & Address of Bidder:-

| Sl. No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                          | Qty     | Unit | Rate (in Rs.) | Amount (in Rs.) |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|---------------|-----------------|
| 1       | Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.                                                                                                                                                                                                                                                                                                                                          | 300.00  | kg   |               |                 |
| 2       | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar                                                                                                                                                                                                                                        | 10.59   | cum  |               |                 |
| 3       | Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.                                                                                                                                                                                                                                            | 1733.02 | kg   |               |                 |
| 4       | Earth work in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m :<br>All kinds of soil | 120.53  | cum  |               |                 |
| 5       | <b>Soling-</b> 75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with :<br>Stone aggregate 40 mm nominal size                                                                                                                                                                                                                                                                                  | 89.28   | sqm  |               |                 |
| 6       | <b>PCC-</b> Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)                                                                                                                                           | 9.34    | cum  |               |                 |
| 7       | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.<br>Thermo-Mechanically Treated bars of grade Fe-500D or more.                                                                                                                                                                                                                                                 | 2715.70 | kg   |               |                 |

| Sl. No. | Description of Item                                                                                                                                                                                                                                                                                                                              | Qty     | Unit | Rate (in Rs.) | Amount (in Rs.) |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|---------------|-----------------|
| 8       | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) | 35.98   | cum  |               |                 |
| 9       | <b>FORM WORK-</b> Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete                                                                                                                                                                            | 59.52   | sqm  |               |                 |
| 10      | <b>FORM WORK-</b> Centering and shuttering including strutting, propping etc. and removal of form for Columns, Pillars, Piers, Abutments, Posts and Struts                                                                                                                                                                                       | 148.80  | sqm  |               |                 |
| 11      | <b>FORM WORK-</b> Centering and shuttering including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantilevers                                                                                                                                                                          | 69.50   | sqm  |               |                 |
| 12      | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)                                                                                                                                                                                 | 16.20   | cum  |               |                 |
| 13      | 12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)                                                                                                                                                                                                                                                                                        | 422.41  | sqm  |               |                 |
| 14      | Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. Two coats                                                                                      | 352.91  | sqm  |               |                 |
| 15      | Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.                                                                                                                                              | 2396.11 | kg   |               |                 |
| 16      | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.                                                                                                                                | 985.61  | kg   |               |                 |

| Sl. No.         | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Qty     | Unit  | Rate (in Rs.) | Amount (in Rs.) |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------------|-----------------|
| 17              | Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately) | 139.00  | metre |               |                 |
| 18              | Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :<br>Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture                                                                                                                                                                                                                                                                                                                                                                                                    | 1054.10 | sqm   |               |                 |
| 19              | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 75.00   | cum   |               |                 |
| Total=          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |               |                 |
| Adding 18% GST= |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |               |                 |
| Grand Total=    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |               |                 |
| Say=            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |               |                 |