

**ODISHA POWER TRANSMISSION CORPORATION LIMITED**

**Construction of 2x12.5 MVA 132/33 KV GRID Sub-Station at BANGIRIPOS I along with 132 KV LILO Line on D/C Tower from the existing KUCHEI-RAIRANGPUR 132 KV Line & Associated System**

**BID DOCUMENT No.: Sr. G.M-CPC- Tender-BANGIRIPOS I-Package – 26-05/2012-13**

**NOTICE INVITING TENDER-NIT NO. 25 /2012-13**

**CORRIGENDUM-II TO (Erection of Equipment/Materials Price Break-up against BANGIRIPOS I S/S PACKAGE)**

| <b>PART-I, SCHEDULE-2C (FOR SUBSTATION)</b> |  | <b>SUB-STATION</b> |   |   |  |                             |
|---|--|--------------------|---|---|--|-----------------------------|
| <b>S. No.</b>                               | <b>DESCRIPTION OF ITEMS</b>  | <b>UNITS</b>       | <b>QUANTITY AS PER THE TENDER</b>   | <b>REVISED QUANTITY</b>   | <b>Erection &amp; Civil Works charges IN INR</b> |                             |
|   | <b>ERECTION, TESTING &amp; COMMISSIONING INCLUDING CIVIL WORKS OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)</b> |                    | <b>Quantity for: Construction of 2x12.5 MVA, 132/33 KV Sub-Station at BANGIRIPOS I (132 KV BAY-05 NOS :01 FDR,02 TFR &amp; 01 B/C) &amp; (33 KV BAY-07 NOS:04 FDR, 02 TFR ,01 B/C).</b> | <b>Quantity for: Construction of 2x12.5 MVA, 132/33 KV Sub-Station at BANGIRIPOS I (132 KV BAY-05 NOS :01 FDR,02 TFR &amp; 01 B/C) &amp; (33 KV BAY-07 NOS:04 FDR, 02 TFR ,01 B/C).</b> | <b>Unit Erection Rate</b>                        | <b>Total Erection Price</b> |
| <b>1</b>                                    | <b>2</b>   | <b>3</b>           | <b>4</b>  | <b>5</b>  | <b>6 = 4X5</b>                                   |                             |
| <b>B</b>                                    | <b>CIVIL WORKS</b>   |                    |   |   |  |                             |

| PART-I, SCHEDULE-2C (FOR SUBSTATION) |   | SUB-STATION |   |   |                                       |                      |
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|                                      | ERECTION, TESTING & COMMISSIONING INCLUDING CIVIL WORKS OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)   |             | Quantity for: Construction of 2x12.5 MVA, 132/33 KV Sub-Station at BANGIRIPOSI (132 KV BAY-05 NOS :01 FDR,02 TFR & 01 B/C) & (33 KV BAY-07 NOS:04 FDR, 02 TFR ,01 B/C). | Quantity for: Construction of 2x12.5 MVA, 132/33 KV Sub-Station at BANGIRIPOSI (132 KV BAY-05 NOS :01 FDR,02 TFR & 01 B/C) & (33 KV BAY-07 NOS:04 FDR, 02 TFR ,01 B/C). | Unit Erection Rate                    | Total Erection Price |
| 1                                    | 2   | 3           | 4   | 5   | 6 = 4X5                               |                      |
| 1                                    | <b>Foundations : Design, engineering, supply of all labour, material (Cement-OPC-43 Grade,MS Rod(FE 500), coarse and fine aggregates(Sand and Metal Chips) etc) for construction of RCC ( 1:1.5:3) &amp; PCC (1:3:6), RCC footings of any depth, pedestal and piling as per requirement including soil investigation, excavation,concreting, shuttering, grouting, underpinning and back filling of foundations etc complete for the following switch yard gantry/ portal structures and equipment support &amp; others as per the technical specification and approved drawings.(RCC RATIO 1:1.5:3). This also includes excavation in all types of soil or rocks,back filling,and disposal of excess earth as per the direction of Engineer In charge.</b> |             |   |   |                                       |                      |
| 1.1                                  | <b>Switch yard gantry/portal structure foundations</b>  |             |   |   |                                       |                      |
| 1.1.1                                | T1S - 132 KV(NOMINAL UNIT WT- 1.2 MT)   |             |   |   |                                       |                      |
| 1.1.2                                | T4S - 132KV (NOMINAL UNIT WT- 0.95 MT)  |             |   |   |                                       |                      |
| 1.1.3                                | T8S - 33KV(NOMINAL UNIT WT- 0.8 MT)   |             |   |   |                                       |                      |
| 1.1.4                                | T9S - 33KV(NOMINAL UNIT WT- 0.6 MT)   |             |   |   |                                       |                      |
| 1.2                                  | <b>Equipment foundations :</b>  |             |   |   |                                       |                      |
| 1.2.8                                | 145 KV,800-400-200 A,31.5 KA,4CORE SINGLE PHASE CURRENT TRANSFORMER   |             |   |   |                                       |                      |
| 1.3                                  | 145 KV,1200A,31.5KA,ISOLATORS   |             |   |   |                                       |                      |
| 1.3.1                                | S/I WITH OUT EARTH SWITCH   |             |   |   |                                       |                      |

| PART-I, SCHEDULE-2C (FOR SUBSTATION) |  | SUB-STATION |   |   |                                       |                      |
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| S. No.                               | DESCRIPTION OF ITEMS   | UNITS       | QUANTITY AS PER THE TENDER  | REVISED QUANTITY  | Erection & Civil Works charges IN INR |                      |
|                                      | ERECTION, TESTING & COMMISSIONING INCLUDING CIVIL WORKS OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)                                  |             | Quantity for: Construction of 2x12.5 MVA, 132/33 KV Sub-Station at BANGIRIPOSI (132 KV BAY-05 NOS :01 FDR,02 TFR & 01 B/C) & (33 KV BAY-07 NOS:04 FDR, 02 TFR ,01 B/C). | Quantity for: Construction of 2x12.5 MVA, 132/33 KV Sub-Station at BANGIRIPOSI (132 KV BAY-05 NOS :01 FDR,02 TFR & 01 B/C) & (33 KV BAY-07 NOS:04 FDR, 02 TFR ,01 B/C). | Unit Erection Rate                    | Total Erection Price |
| 1                                    | 2  | 3           | 4   | 5   | 6 = 4X5                               |                      |
| 1.3.2                                | D/I WITH SINGLE EARTH SWITCH   |             |   |   |                                       |                      |
| 1.3.3                                | D/I WITHOUT EARTH SWITCH   |             |   |   |                                       |                      |
| 1.4                                  | 145 KV,6600pF,3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER   |             |   |   |                                       |                      |
| 1.5                                  | 120 KV METAL OXIDE SURGE ARRESTOR, 10 KA, Class III  |             |   |   |                                       |                      |
| 1.6                                  | 145 KV ,2 CORE,SINGLE PHASE,IVT  |             |   |   |                                       |                      |
| 1.7                                  | 132 KV Bus Post Insulators   |             |   |   |                                       |                      |
| 1.8                                  | 145KV,3150A,40KA,SF6,CIRCUIT BREAKER WITH SUPPORTING STRUCTURE   |             |   |   |                                       |                      |
| 1.9                                  | 36 KV,800-400-200,25KA,3CORE & 4 CORE SINGLE PHASE CURRENT TRANSFORMER   |             |   |   |                                       |                      |
| 1.10                                 | 36 KV CLASS NCT FOR POWER TRANSFORMER REF PROTECTION (RATIO 800-400-200 A) & HAVING TWO CORE (PS CLASS) (IN EACH POWER TRANSFORMER 132 KV SIDE: 1 NO, & 33 KV SIDE:1 NO) |             |   |   |                                       |                      |
| 1.11                                 | <b>36 KV,800A,25KA,ISOLATORS</b>   |             |   |   |                                       |                      |
| 1.11.1                               | S/I WITH OUT EARTH SWITCH  |             |   |   |                                       |                      |
| 1.11.2                               | D/I WITH SINGLE EARTH SWITCH   |             |   |   |                                       |                      |
| 1.11.3                               | D/I WITHOUT EARTH SWITCH   |             |   |   |                                       |                      |
| 1.12                                 | 30 KV, METAL OXIDE SURGE ARRESTOR, 10KA, class II  |             |   |   |                                       |                      |
| 1.13                                 | 36 KV ,2 CORE,SINGLE PHASE,IVT   |             |   |   |                                       |                      |
| 1.14                                 | 36KV,1250A,25KA,VACUUM CIRCUIT BREAKER WITH SUPPORTING STRUCTURE   |             |   |   |                                       |                      |
| 1.15                                 | 33 KV Bus Post Insulators  |             |   |   |                                       |                      |
| 1.16                                 | SUB STATION SWITCHYARD BMK,AC CONSOLE & OTHER MARSHALLING BOXES  |             |   |   |                                       |                      |
| 1.16.1                               | BAY MARSHALLING KIOSK (03 Nos 132 kv bay & 04 Nos 33 KV bay)   |             |   |   |                                       |                      |

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| 1                                    | 2  | 3           | 4   | 5   | 6 = 4X5                               |                      |
| 1.16.2                               | SWITCH YARD AC CONSOLE FOR LIGHTING ( 01 Nos 132 kv bay & 01 No in 33KV bay )  |             |   |   |                                       |                      |
| 1.16.3                               | SWITCH YARD RECEPTACLE BOARD FOR TFR OIL FILTERATION ( 1 No near 132/33 KV power Transformer)  |             |   |   |                                       |                      |
| 1.16.4                               | SWITCH YARD RECEPTACLE BOARD FOR WELDING & OTHER EMERGENCY (01 nos each on 132 & 33 kv bay )   |             |   |   |                                       |                      |
| 1.17                                 | EXCAVATION.:This also includes excavation in all types of soil or rocks,back filling,and disposal of excess earth as per the direction of Engineer In charge.  |             |   |   |                                       |                      |
| 1.17.1                               | Normal Soil(SOFT/LOOSE)  | Cum         | 2600  | 800   |                                       |                      |
| 1.17.2                               | Hard Soil  | Cum         | 1000  | 400   |                                       |                      |
| 1.17.3                               | Soft Rock  | Cum         | 2000  | 300   |                                       |                      |
| 1.17.4                               | Hard Rock(Requiring Blasting/Using breaker machinery)  | Cum         | 4100  | 100   |                                       |                      |
| 1.17.5                               | Design, Engineering, Providing and laying of plain cement concrete (PCC 1:3:6) of grade M10 with approved quality coarse aggregates (Nominal size 12mm to 20mm) , fine aggregates, cement in column and equipment foundation as blind layer inclusive of labour charges for concrete mixing & curing. This includes supply of all labourers, T&P and dewatering wherever required as per Technical specification and instruction of Engineer In charge.  | Cum         | 850   | 100   |                                       |                      |
| 1.17.6                               | Open cast foundation for the above column/equipment/marshalling box foundations with RCC: 1:1.5:3 (Grade M-20),including supply of Labour all materials like Steel (Supply of MS Rod FE-500,Cutting,Bending,Binding (including supply of binding wire) and placing in position of steel rods of different size as per design in the foundation pit as required for the above foundations),Cement, coarse and fine aggregates,shuttering,proper curing of the foundations/concrete and T&P in line with the Specification and as per direction of Engineer in Charge. | Cum         | 3500  | 980   |                                       |                      |

| PART-I, SCHEDULE-2C (FOR SUBSTATION) |   | SUB-STATION |   |   |                                       |                      |
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| 1                                    | 2   | 3           | 4   | 5   | 6 = 4X5                               |                      |

- Note: 1** Before filling up rate/amount etc. in the schedules bidders are requested to read carefully the instruction given in Vol-I of Bidding Document.
- 2** Bidders are required to fill up amount in all column except shaded portion.
- 3** Bidders are requested not to leave any column blank. If any column is left blank it shall be considered that amount against those items are included in any other item and the total amount for that item shall be calculated as free of cost (Zero value). No rate shall be furnished/obtained after bid opening (Ref clause no 33.4.1 of INB vol-I).
- 4** Kindly enclose soft copy of the duly filled schedule in a CD with the priced copy of Bid.
- 5** Bidder has to quote rates excluding service tax (if any), service tax shall be paid/reimbursed as per conditions of Bid Document.

**REMARKS: BIDDERS ARE REQUESTED TO QUOTE FOR REVISED QUANTITY(SS-2C) AGAINST ITEM SL NO. 1.17.1,1.17.2,1.17.3,1.17.4,1.17.5 & 1.17.6. ALL OTHER ITEMS SHALL REMAIN UNCHANGED.**

**CHIEF GENERAL MANAGER**