

Amendment No. 2 dated 28.12.2022

to

**RFP documents for selection of Transmission Service Provider through Tariff Based Competitive Bidding process to establish transmission system for
“Western Region Expansion Scheme- XXVII (WRES-XXVII)”**

| S. No. | Existing Provisions | Revised Provisions | | | | | | | | | | | | | | | | | | | | | | | | | | |
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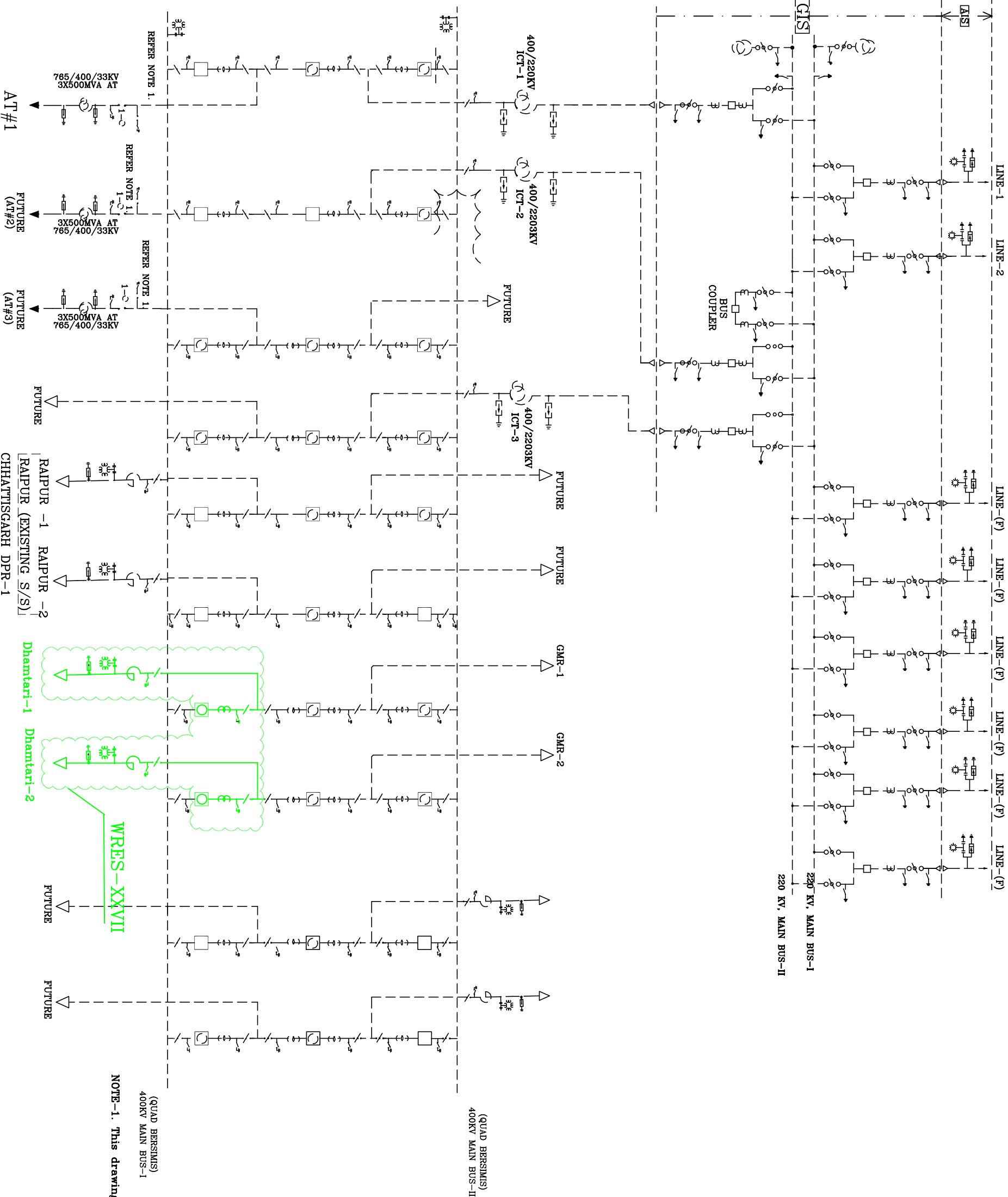
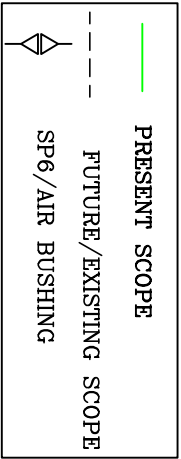
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|--------|--|-------|---|-------|--|---|-------|--|-------|--|
| | iii. | | matching with 3rd 400/220kV, 315MVA ICT at Dhamtari S/s to be implemented by CSPTCL (anticipated by Mar-24), whichever is later.* | | | iii. | | | | |
| | <p><i>*To be firmed up based on implementation schedule of 3rd 400/220kV, 315MVA ICT at Dhamtari S/s as per inputs of CSPTCL, before submission of bids.</i></p> <p>Note:</p> <ul style="list-style-type: none"> (i) Powergrid to provide space for 400 kV bays at Raipur PS for termination of Raipur Pool – Dhamtari 400 kV D/c Line (Quad ACSR/AAAC/AL59 Moose equivalent). (ii) CSPTCL to provide space for 400 kV bays at Dhamtari S/s for termination of Raipur Pool – Dhamtari 400 kV D/c Line (Quad ACSR/AAAC/AL59 Moose equivalent). (iii) Downstream system associated with the scheme to be implemented by CSPTCL as an intrastate scheme: <ul style="list-style-type: none"> • Dhamtari (Kurud) - Gurur 220kV D/c (2nd) line by Dec'23 timeframe. • 3rd 400/220kV, 315 MVA ICT at Dhamtari S/s by Mar'24 timeframe. (iv) The schedule of implementation would be 18 months from SPV Transfer or matching with 3rd 400/220kV, 315 MVA ICT at | | | | | <p>*deleted</p> <p>Note:</p> <ul style="list-style-type: none"> (i) Powergrid to provide space for 400 kV bays at Raipur PS for termination of Raipur Pool – Dhamtari 400 kV D/c Line (Quad ACSR/AAAC/AL59 Moose equivalent). (ii) CSPTCL to provide space for 400 kV bays at Dhamtari S/s for termination of Raipur Pool – Dhamtari 400 kV D/c Line (Quad ACSR/AAAC/AL59 Moose equivalent). (iii) Downstream system associated with the scheme to be implemented by CSPTCL as an intrastate scheme: <ul style="list-style-type: none"> • Dhamtari (Kurud) - Gurur 220kV D/c (2nd) line. • 3rd 400/220kV, 315 MVA ICT at Dhamtari S/s. (iv) The schedule of implementation would be 18 months from SPV Transfer. <p>Scheduled COD for overall Project: 18 months from SPV Transfer.</p> | | | | |

| S. No. | Existing Provisions | Revised Provisions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|---|---------------|---------------------|----------|--|--|--|--|----|---------------------|----------|----|----|---------------------|----------|--|----|-------|-------|--|----|------|-------|--|----|-------|-------|--|----|-------|-------|--|--|------------------------------------|--|--|----|-------|-------|-------|---|-------|-------|-------|----|-------|-------|-------|---|--------|---------------|---------------------|----------|--|--|--|--|----|---------------------|---------------------------------|---|----|---------------------|---|---|----|-------|-------|--|----|------|-------|--|----|-------|-------|--|----|-------|-------|--|--|------------------------------------|--|--|----|-------|-------|-------|---|-------|-------|-------|----|-------|-------|-------|
| | <p>Dhamtari S/s to be implemented by CSPTCL (anticipated by Mar-24), whichever is later</p> <p>Scheduled COD for overall Project: 18 months from SPV Transfer or matching with 3rd 400/220kV, 315MVA ICT at Dhamtari S/s to be implemented by CSPTCL (anticipated by Mar-24), whichever is later.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | <p>Annexure-C of RFP & Schedule: 1 of TSA</p> <p>Clause No. B.5.0, Specific Technical Requirements for Substation</p> <p>B.5.0 EXTENSION OF EXISTING SUBSTATION</p> <p>The following drawings/details of existing substation are attached with the RFP documents for further engineering by the bidder.</p> <table><tr><th>S. No</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr><tr><td></td><td colspan="3">400kV Raipur Pool (POWERGRID) S/S</td></tr><tr><td>1.</td><td>Single Line Diagram</td><td>Attached</td><td>--</td></tr><tr><td>2.</td><td>General Arrangement</td><td>Attached</td><td></td></tr><tr><td>3.</td><td>.....</td><td>.....</td><td></td></tr><tr><td>4.</td><td>....</td><td>.....</td><td></td></tr><tr><td>5.</td><td>.....</td><td>.....</td><td></td></tr><tr><td>6.</td><td>.....</td><td>.....</td><td></td></tr><tr><td></td><td colspan="3">400kV Dhamtari (CSPTCL) S/S</td></tr><tr><td>1.</td><td>.....</td><td>.....</td><td>.....</td></tr><tr><td>.</td><td>.....</td><td>.....</td><td>.....</td></tr><tr><td>6.</td><td>.....</td><td>.....</td><td>.....</td></tr></table> | S. No | Drawing Title | Drawing No./Details | Rev. No. | | 400kV Raipur Pool (POWERGRID) S/S | | | 1. | Single Line Diagram | Attached | -- | 2. | General Arrangement | Attached | | 3. | | | | 4. | | | | 5. | | | | 6. | | | | | 400kV Dhamtari (CSPTCL) S/S | | | 1. | | | | . | | | | 6. | | | | <p>Annexure-C of RFP & Schedule: 1 of TSA</p> <p>Clause No. B.5.0, Specific Technical Requirements for Substation</p> <p>B.5.0 EXTENSION OF EXISTING SUBSTATION</p> <p>The following drawings/details of existing substation are attached with the RFP documents for further engineering by the bidder.</p> <table><tr><th>Sl. No</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr><tr><td></td><td colspan="3">400kV Raipur Pool (POWERGRID) S/S</td></tr><tr><td>1.</td><td>Single Line Diagram</td><td>C/Engg/WRES-XVII/Raipur/SLD/01*</td><td>0</td></tr><tr><td>2.</td><td>General Arrangement</td><td>C/Engg/WR/TBCB/WRES-XVII/Raipur/GA/400kV*</td><td>0</td></tr><tr><td>3.</td><td>.....</td><td>.....</td><td></td></tr><tr><td>4.</td><td>....</td><td>.....</td><td></td></tr><tr><td>5.</td><td>.....</td><td>.....</td><td></td></tr><tr><td>6.</td><td>.....</td><td>.....</td><td></td></tr><tr><td></td><td colspan="3">400kV Dhamtari (CSPTCL) S/S</td></tr><tr><td>1.</td><td>.....</td><td>.....</td><td>.....</td></tr><tr><td>.</td><td>.....</td><td>.....</td><td>.....</td></tr><tr><td>6.</td><td>.....</td><td>.....</td><td>.....</td></tr></table> <p><i>*It may be mentioned that bay allocation has been revised in the above-mentioned drawings.</i></p> | Sl. No | Drawing Title | Drawing No./Details | Rev. No. | | 400kV Raipur Pool (POWERGRID) S/S | | | 1. | Single Line Diagram | C/Engg/WRES-XVII/Raipur/SLD/01* | 0 | 2. | General Arrangement | C/Engg/WR/TBCB/WRES-XVII/Raipur/GA/400kV* | 0 | 3. | | | | 4. | | | | 5. | | | | 6. | | | | | 400kV Dhamtari (CSPTCL) S/S | | | 1. | | | | . | | | | 6. | | | |
| S. No | Drawing Title | Drawing No./Details | Rev. No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400kV Raipur Pool (POWERGRID) S/S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Single Line Diagram | Attached | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | General Arrangement | Attached | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400kV Dhamtari (CSPTCL) S/S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sl. No | Drawing Title | Drawing No./Details | Rev. No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400kV Raipur Pool (POWERGRID) S/S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Single Line Diagram | C/Engg/WRES-XVII/Raipur/SLD/01* | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | General Arrangement | C/Engg/WR/TBCB/WRES-XVII/Raipur/GA/400kV* | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400kV Dhamtari (CSPTCL) S/S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| BILL OF QUANTITY - 400 kV | | |
|---------------------------|--|--------|
| SL. | ITEM DESCRIPTION | SYMBOL |
| 1 | CIRCUIT BREAKER WITHOUT CR (3150 A,50 KA,3-PH) | |
| 2 | CIRCUIT BREAKER WITH CR (3150 A,50 KA,3-PH) | |
| 3 | ISOLATOR WITH ONE EARTH SWITCH (3-PH) DOUBLE BREAK (60 KA 1SEC,3-PH) | |
| 4 | ISOLATOR WITH TWO EARTH SWITCHES(4-PH) DOUBLE BREAK (60 KA,50 KA 1SEC,3-PH) | |
| 5 | CURRENT TRANSFORMER (3000 A,50 KA,1-PH) | |
| 6 | CAPACITOR VOLTAGE TRANSFORMER (420 KV,50 KA,1SEC,1-PH,4400PF) | |
| 7 | SURGE ARRESTER (336 KV) | |
| 8 | WAVE TRAP 2000A,1mH,400KV | |
| 9 | CIRCUIT BREAKER WITH CR (2000A,50 KA,3-PH) | |
| 10 | ISOLATOR WITH ONE EARTH SWITCH(4-PH) DOUBLE BREAK (2000 A,50 KA 1SEC,1-PH) | |

LEGEND:-



NOTE-1. This drawing shall be refer for present scope only

FOR TENDER PURPOSE

POWER GRID CORPORATION
OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT : Western Region Expansion Scheme-XXVII

TITLE : SINGLE LINE DIAGRAM - 400KV
RAIPUR POOLING STATION

| | | |
|---------------------------------|-------|------|
| DRAWN BY | SCALE | REV. |
| SK. SAHA | MMS | 00 |
| C/ENGG/WRES-XXVII/RAIPUR/SLD/01 | | |