



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

( भारत सरकार का उपक्रम )

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

**TCN - 01**

Ref: PSER:SCT:PAL-I1263:TCN-01

Date: 25/10/2011

|     |  |   |
|-----|--|---|
| Sub | Tender change notice (TCN) - 01  |   |
| Job | Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura. |   |
| Ref | 1.0  | Tender no PSER:SCT:PAL-I1263:11                                     |
|     | 2.0  | BHEL's NIT, vide ref no Ref: PSER:SCT:PAL-I1263:11 Dated 13/10/2011 |
|     | 3.0  | Other references (if any).  |

With reference to above, following points , relevant to tender, may please be noted and complied with while submitting offer.

1.0

| SL. NO. | Reference Cl. of Tender Document  | BHEL's clarification   |
|---------|---|--|
| 1       | <b>VOL-IF – TCC<br/>ANNEXURE – II</b><br>(List of major Testing & measuring instrument / Tools and tackles to be arranged/ brought by contractor )<br>UNDER SECTION I – INSTRUMENTS, SL. NO. 1  | VOL-IF, ANNEXURE-II, UNDER SECTION I – INSTRUMENTS, SL.NO.1 – DESCRIPTION SHALL BE READ AS BELOW:<br><br>Dead weight tester/Comparison tester rated 400 and 700 kg/cm <sup>2</sup> with weights and test gauge facility. |
| 2       | <b>VOL-IF – TCC<br/>ANNEXURE – II</b><br>(List of major Testing & measuring instrument / Tools and tackles to be arranged/ brought by contractor )<br>UNDER SECTION I – INSTRUMENTS, SL. NO. 32 | ITEM (HART Calibrator for calibrating Micro processor based SMART Transmitter) STANDS DELETED.   |

3.0 BOQ cum price schedule format VOL-IIIA, PRICE SCHEDULE, REV-0 has been revised as VOL-IIIA- PRICE SCHEDULE, REV-01 which is enclosed herewith. As such you are requested to consider the revised BOQ/price schedule only and quote your price accordingly. Offer from bidders in superseded price schedule (Vol-III, REV-0) shall not be considered. Bidders are also requested to submit a declaration in techno-commercial offer that they have submitted their price bid in sealed envelope as per REVISED price schedule format (VOL-IIIA , PRICE SCHEDULE , REV-01)

4.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached Format only.

2.0 Due date of submission of offer is extended from 27/10/2011 to 02/11/2011 at 1400 hrs.

5.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,  
for BHARAT HEAVY ELECTRICALS LTD

**ENGR (SCT)**

Encl

1.0 Revised BOQ cum price schedule format (VOL-IIIA , PRICE SCHEDULE , REV-01)

2.0 Revised 'No deviation certificate' format.

पावर सेक्टर पूर्वी क्षेत्र ( मुख्यालय )

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

**FORMAT FOR NO DEVIATION CERTIFICATE**  
**(To be submitted in the bidder's letter head)**

BHARAT HEAVY ELECTRICALS LIMITED,  
Power Sector - Eastern Region,  
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,  
Kolkata – 700 091

|     |   |   |
|-----|---|---|
| Sub | No Deviation Certificate.   |   |
| Job | Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura.. |   |
| Ref | 1.0   | Tender no PSER:SCT:PAL-I1263:11.  |
|     | 2.0   | BHEL's NIT, vide ref no Ref: PSER:SCT:PAL-I1263:11 Dated 13/10/2011           |
|     | 3.0   | BHEL's TCN-01, vide reference no PSER:SCT:PAL-I1263:TCN-01, dated 25-10-2011. |

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, Integrity Pact (If applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized  
representative of the bidder)

**VOLUME-III  
PRICE SCHEDULE, REV-1**

**Job : Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**TENDER DOCUMENT NO - PSER:SCT:PAL-I1263:11**

**PREAMBLE**

|    |   |
|----|---|
| 01 | This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender as per NIT together with subsequent changes/modifications etc thereto as applicable as on date of submission of price offer.  |
| 02 | The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions.  |
| 03 | Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.  |
| 04 | Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc equipment, strengthening of roads/culverts/bridges etc including arranging all clearances etc required for carrying out different activities & tests, materials, levies, taxes (taxes, duties shall be as per tender terms, Vol- IF) , transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the tender document and this schedule. |
| 05 | The rates quoted shall be inclusive of cleaning of site of any grass , making benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.  |
| 06 | The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation remains, within thirty percent ( $\pm 15\%$ ) of the awarded price as per LOI.  |
| 07 | Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English.  |
| 08 | The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.   |
| 09 | Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.   |
| 10 | The final payment shall be on the basis of actual quantity erected and all payment shall be made on the basis of unit rates. The unit rate for identical item shall be same in all places of BOQ/ Rate schedule.  |

|    |  |
|----|--|
| 11 | The rebate, if any offered by the bidder shall apply to all unit rate prices and unit rate prices quoted by the bidder shall be reduced proportionately, unless specified otherwise by bidder. |
| 12 | All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.                                    |
| 13 | Note : Bidders to note the following for quoting their rates.  |
|    | Only authorised persons of bidder having power should sign in the price bid. All the pages must be signed.   |

**VOLUME-III  
PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura.**

**TENDER DOCUMENT NO - PSER:SCT:PAL-I1263:11**

**SUMMARY**

| ITEM/SCHEDULE   | TOTAL AMOUNT (₹) |
|---|------------------|
| <b>Erection, testing, commissioning etc of complete C&amp;I system including all max system &amp; panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&amp;I, controls and C&amp;I of balance system/item for 2X363.3 MW units at Palatana, Tripura.</b> |                  |

**VOLUME-III****PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.   | Item Description   | Quantity |       | Unit Price | Total Price | Billing schdl. Ref. |
|---|--|----------|-------|------------|-------------|---------------------|
|   |  | Unit     | Value | Rate       | Value       |                     |
| <b>SEE Package Unit # 1 &amp; 2</b>             |  |          |       |            |             |                     |
| A1  | Static Excitaton Equipment (SEE) - comprising of followings  | Set      | 2     |            |             | 6                   |
|   | Regulation Cubicle - 1 set   |          |       |            |             |                     |
|   | Auxiliary Excitation Cubicle - 1 set   |          |       |            |             |                     |
|   | Thyristor and Trunking Cubicle - 1 set   |          |       |            |             |                     |
|   | Field Breaker Cubicle - 1set   |          |       |            |             |                     |
| SEE Excitation Transformer Cubicle - 1 set      |  |          |       |            |             |                     |
| <b>DAVR Package Unit # 1 &amp; 2</b>            |  |          |       |            |             |                     |
| A2  | Digital Automatic Voltage Regulator (DAVR)   | Set      | 2     |            |             | 6                   |
| <b>A3. STG C&amp;I Package Unit # 1 &amp; 2</b> |  |          |       |            |             |                     |
| A3.1  | TSE / IPBP / GSPC / EHA Panels (Turbine Stress Evaluator / Intermediate Pressure Bypass / Gland Steam Pressure Control / Electro-Hydraulic Actuator - maxDNA Panels) - CJJ01, CJJ02 & CJJ03 - Suite of 3 Panels  | Set      | 2     |            |             | 6                   |
| A3.2  | LSR / LMU / Auto Sync Panels (Load Shedding Relay / Load Measuring Unit / Auto Synchroniser - non maxDNA Panel) - CJJ08 - Suite of 1 Panel   | Set      | 2     |            |             |                     |
| A3.3  | LPBP / HP SU (Low Pressure By Pass / High Pressure Oil Supply Unit) & Trip Solenoid maxDNA Panels - CJJ11, CJJ12 & CJJ13 - Suite of 3 Panels   | Set      | 2     |            |             |                     |
| A3.4  | EHTC TMR (Electro Hydraulic Turbine Controller Triple Modular Redundancy), EHTC Position Controller & TP/EHTC (Turbine Protection / Electro Hydraulic Turbine Controller) Common Station- CJJ21, CJJ22, CJJ23, CJJ24 & CJJ25 - Suite of 5 Panels - maxDNA Panels (except CJJ24 - non maxDNA) | Set      | 2     |            |             |                     |
| A3.5  | TP TMR (Turbine Protection Triple Modular Redundancy), Overspeed & Trip Solenoid - CJJ31, CJJ32, CJJ33, CJJ34 & CJJ35 - Suite of 5 Panels maxDNA Panels (except CJJ34, CJJ35 non maxDNA)   | Set      | 2     |            |             |                     |

**VOLUME-III A****PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.  | Item Description   | Quantity |       | Unit Price | Total Price | Billing schdl. Ref. |
|--|--|----------|-------|------------|-------------|---------------------|
|  |  | Unit     | Value | Rate       | Value       |                     |
| A3.6   | ATRS SGC (Automatic Turbine Run-Up System Sub Group Control) Turbine - maxDNA Panels - CCA01, CCA02 & CCA03 - Suite of 3 Panels          | Set      | 2     |            |             | 6                   |
| A3.7   | ATRS SGC (Automatic Turbine Run-Up System Sub Group Control) Oil & Evacuation - maxDNA Panels - CCA04, CCA05 & CCA06 - Suite of 3 Panels | Set      | 2     |            |             |                     |
| A3.8   | Interposing Relay - non maxDNA Panel - CCA07 - Suite of 1 Panel  | Set      | 2     |            |             |                     |
| A3.9   | GAMP (Generator Auxiliary Monitoring Panel) - maxDNA Panel (GTG) - CCA10 & CCA11 - Suite of 2 Panels                                     | Set      | 2     |            |             |                     |
| <b>A4. Station C&amp;I / BOP C&amp;I &amp; HRSG C&amp;I Package Unit # 1 &amp; 2</b> |  |          |       |            |             |                     |
| A4.1   | Functional Group Control maxDNA Panels - CRE01 & CRE02 - Suite of 2 Panels - GT Fuel Gas Conditioning                                    | Set      | 2     |            |             | 6                   |
| A4.2   | Functional Group Control maxDNA Panels - CRE03 & CRE04 - Suite of 2 Panels - HRSG HP CKT   | Set      | 2     |            |             |                     |
| A4.3   | Functional Group Control maxDNA Panels - CRE05 & CRE06 - Suite of 2 Panels - HRSG IP CKT   | Set      | 2     |            |             |                     |
| A4.4   | Functional Group Control maxDNA Panels - CRE07 & CRE08 - Suite of 2 Panels - HRSG LPP CKT  | Set      | 2     |            |             |                     |
| A4.5   | Functional Group Control maxDNA Panels - CRE09 & CRE10 - Suite of 2 Panels - - Steam System  | Set      | 2     |            |             |                     |
| A4.6   | Functional Group Control maxDNA Panels - CRE11 & CRE12 - Suite of 2 Panels - CPHRCP-A, CEP-A, HPBFP-A, LPBFP-A                           | Set      | 2     |            |             |                     |
| A4.7   | Functional Group Control maxDNA Panels - CRE13 & CRE14 - Suite of 2 Panels - CPHRCP-B, CEP-B, HPBFP-B, LPBFP-B, DEA                      | Set      | 2     |            |             | 6                   |
| A4.8   | Functional Group Control maxDNA Panels - CRE15 & CRE16 - Suite of 2 Panels - CPHRCP-C, Hotwell   | Set      | 2     |            |             |                     |
| A4.9   | Functional Group Control maxDNA Panels - CRE17 & CRE18 - Suite of 2 Panels - H/W M/U PMP-A, CWP-A, ACWP-A, DMCWP-A                       | Set      | 2     |            |             |                     |

**VOLUME-III**  
**PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No. | Item Description   | Quantity |       | Unit Price | Total Price | Billing schdl. Ref. |
|---------|--|----------|-------|------------|-------------|---------------------|
|         |  | Unit     | Value | Rate       | Value       |                     |
| A4.10   | Functional Group Control maxDNA Panels - CRE19 & CRE20 - Suite of 2 Panels - H/W M/U PMP-B, CWP-B, ACWP-B, DMCWP-B   | Set      | 2     |            |             | 6                   |
| A4.11   | Functional Group Control maxDNA Panels - CRE21 & CRE22 - Suite of 2 Panels - H/W M/U PMC-C, CWP-C, CT FAN  | Set      | 2     |            |             |                     |
| A4.12   | Functional Group Control maxDNA Panels - CRE23 & CRE24 - Suite of 2 Panels - Dosing System & Analyser DAS  | Set      | 2     |            |             |                     |
| A4.13   | Functional Group Control maxDNA Panels - CRE25 & CRE26 - Suite of 2 Panels - Electrical System 1   | Set      | 2     |            |             |                     |
| A4.14   | Functional Group Control maxDNA Panels - CRE27 & CRE28 - Suite of 2 Panels - Electrical System 2   | Set      | 2     |            |             |                     |
| A4.15   | Interposing Relay - non maxDNA Panel - CTE01, - Suite of 1 Panel   | Set      | 2     |            |             |                     |
| A4.16   | Interposing Relay - non maxDNA Panel - CTE02 - Suite of 1 Panel  | Set      | 2     |            |             |                     |
| A4.17   | Interposing Relay - non maxDNA Panel - CTE03 - Suite of 1 Panel  | Set      | 2     |            |             |                     |
| A4.18   | Functional Group Control maxDNA Panels - CRE29 & CRE30 - Suite of 2 Panels - Electrical Common & Common System - Common for Units 1 & 2                    | Set      | 1     |            |             | 6                   |
| A4.19   | Functional Group Control maxDNA Panels - CRE31 & CRE32 - Suite of 2 Panels - Plant Water System (RWP, DM PMP, SW PMP, CW M/U PMO) - Common for Units 1 & 2 | Set      | 1     |            |             |                     |
| A4.20   | Functional Group Control maxDNA Panels - CRE33 & CRE34 - Suite of 2 Panels - Flue Gas Booster Compressor - Common for Units 1 & 2                          | Set      | 1     |            |             |                     |
| A4.21   | Functional Group Control maxDNA Panels - CRE35 & CRE36 - Suite of 2 Panels - Flue Gas Booster Compressor 1 - Common for Units 1 & 2                        | Set      | 1     |            |             |                     |
| A4.22   | Transducer & AVT non maxDNA Panel - CFA01 - Suite of 1 Panel - Unit 1 & 2  | Set      | 2     |            |             |                     |

**VOLUME-III A****PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.   | Item Description  | Quantity |       | Unit Price | Total Price | Billing schdl. Ref. |
|---|---|----------|-------|------------|-------------|---------------------|
|   |   | Unit     | Value | Rate       | Value       |                     |
| A4.23   | Unit Control Panel (CWD01) - Unit 1 & 2   | Set      | 2     |            |             | 6                   |
| A4.24   | Electrical Control Panel (CWB01) - Unit 1 & 2   | Set      | 2     |            |             |                     |
| <b>A5. HMI Package - DCS - Unit # 1 &amp; 2</b> |   |          |       |            |             |                     |
| A5.1  | max Engineer Station : Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X DVD RW, 24" WIDE TFT MONITOR MAX RESOLUTION - 1280 x 1024 PIXELS, 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional                            | No.      | 2     |            |             | 6                   |
| A5.2  | max Storian Station: Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X DVD RW, 24" WIDE TFT MONITOR MAX RESOLUTION - 1280 x 1024 PIXELS, 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional                              | No.      | 2     |            |             |                     |
| A5.3  | Performance Calculation Stations: Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X DVD RW, 24" WIDE TFT MONITOR MAX RESOLUTION - 1280 x 1024 PIXELS, 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional                 | No.      | 2     |            |             |                     |
| A5.4  | max Operator Stations: Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X/48X DVD-ROM Drive, 24" WIDE TFT MONITOR MAX RESOLUTION - 1280 x 1024 PIXELS(dual TFT), 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional       | Nos.     | 6     |            |             | 6                   |
| A5.5  | max LVS Station: Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X/48X DVD-ROM Drive, 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional   | Nos.     | 4     |            |             |                     |
| A5.6  | max Link Station (Offsite System View): Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X/48X DVDROM Drive, 24" WIDE TFT MONITOR MAX RESOLUTION – 1280 x 1024 PIXELS, 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional | No.      | 2     |            |             | 6                   |

**VOLUME-III A****PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.  | Item Description   | Quantity |       | Unit Price | Total Price | Billing schdl. Ref. |
|--|--|----------|-------|------------|-------------|---------------------|
|  |  | Unit     | Value | Rate       | Value       |                     |
| A5.7   | Colour Laserjet Printer - A3 Size, 20 ppm(approx),600 dpi  | Nos.     | 4     |            |             | 6                   |
| A5.8   | Black Laserjet Printer - A4 Size, 20 ppm(approx),,600 dpi  | No.      | 2     |            |             |                     |
| A5.9   | Dot Matrix Printer - 132 col, 300 cps draft  | Nos.     | 2     |            |             |                     |
| A5.10  | Network Panel DCS-A with Ethernet Switches - NWP A01 - Suite of 1 Panel  | Set      | 2     |            |             |                     |
| A5.11  | Network Panel DCS-B with Ethernet Switches - NWP A02 - Suite of 1 Panel  | Set      | 2     |            |             |                     |
| A5.12  | Network Panel DCS-HMI with Ethernet Switches - NWP A03 - Suite of 1 Panel  | Set      | 2     |            |             |                     |
| A5.13  | MIS Station - Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X/48X DVD-ROM Drive, 24" WIDE TFT MONITOR MAX RESOLUTION – 1280 x 1024 PIXELS, 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional - Common for Units 1 & 2          | Set      | 1     |            |             |                     |
| A5.14  | Unit Incharge station: Intel Core 2 Duo processor or equivalent, 1 GB DDR memory, 146 GB SATA hard disk, 16X/48X DVD-ROM Drive, 24" WIDE TFT MONITOR MAX RESOLUTION – 1280 x 1024 PIXELS, 10/100 Base-T Ethernet NIC with RJ45 port, Graphics Port, ASCII keyboard & Mouse, Microsoft Windows XP Professional - Common for Units 1 & 2 | Set      | 1     |            |             | 6                   |
| <b>GT C&amp;I Package Unit # 1 &amp; 2 (Mark-VI) :</b> |  |          |       |            |             |                     |
| <b>A6</b>  | GT C&I Mark VI   |          |       |            |             |                     |
| A6.1   | GT CONTROL PANELS<br>(All panels Inclusive for the set )   | Set      | 2     |            |             | 6                   |
| A6.2   | Gas Booster Control Panels<br>( All Panels inclusive for the set )   | Set      | 2     |            |             | 6                   |
| A6.3   | PC for Engg Station / Operator station Unit 1&2  | Nos.     | 4     |            |             |                     |

**VOLUME-III**

**PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.   | Item Description  | Quantity |       | Unit Price | Total Price | Billing schdl. Ref. |
|-----------|---|----------|-------|------------|-------------|---------------------|
|           |   | Unit     | Value | Rate       | Value       |                     |
| A6.4      | Printer for Engg / Operator Station Unit 1&2  | Nos.     | 4     |            |             |                     |
| A6.5      | Vibration Monitoring Panels (All Panels for GT )  | Sets     | 2     |            |             |                     |
| <b>B1</b> | <b>Impulse Pipes (BHEL Portion) - Unit 1 &amp; 2 - Details given Below :</b>                    |          |       |            |             |                     |
| B1.1      | IMPULSE PIPE A106 GR C 1/2" NB SCH 160 WITH VALVES AND FITTINGS                                 | Mtrs     | 1000  |            |             | 4                   |
| B1.2      | IMPULSE PIPE A106 GR C 1/2" NB SCH 80 WITH VALVES AND FITTINGS                                  | Mtrs     | 8,500 |            |             |                     |
| B1.3      | Impulse pipe A335 P22 1/2" NB XXS WITH VALVES AND FITTINGS                                      | Mtrs     | 600   |            |             |                     |
| <b>B2</b> | <b>Impulse Pipes (non-BHEL Portion) - Unit 1 &amp; 2 - Details given Below :</b>                |          |       |            |             |                     |
| B2.1      | IMPULSE PIPE A312 TP 316 1/2" NB SCH 160 WITH VALVES AND FITTINGS                               | Mtrs     | 1500  |            |             | 4                   |
| B2.2      | IMPULSE PIPE A312 SS 316 PIPE 1/2" SCH 80 WITH VALVES AND FITTINGS                              | Mtrs     | 2,800 |            |             |                     |
| B2.3      | G.I PIPE 1/2" WITH VALVES AND FITTINGS  | Mtrs     | 700   |            |             |                     |
| B2.4      | G.I PIPE 1" WITH VALVES AND FITTINGS  | Mtrs     | 200   |            |             | 4                   |
| <b>B3</b> | <b>Steam and Water Analysis System (SWAS) - Unit 1 &amp; 2 :</b>                                |          |       |            |             |                     |
| B3.1      | Steam and Water Analysis System (SWAS) - Sample Handling System - Comprising of details below : | Set      | 2     |            |             | 6                   |
|           | SWAS Sample handling system wet panel - 1 set   |          |       |            |             |                     |
|           | SWAS Sample handling system dry panel - 1 set   |          |       |            |             |                     |
|           | SWAS Chiller Panel - 1 set  |          |       |            |             |                     |
|           | SWAS Primary Racks - 7 set  |          |       |            |             |                     |
| B3.2      | Steam and Water Analysis System (SWAS) - Analysers - Unit 1 - Comprising of details Below :     | Set      | 2     |            |             | 6                   |
|           | Conductivity Analyser - 19 nos.   |          |       |            |             |                     |
|           | pH Analyser - 7 nos.  |          |       |            |             |                     |
|           | Dissolved Oxygen Analyser -4 nos.   |          |       |            |             |                     |
|           | Sodium Analyser - 1 no.   |          |       |            |             |                     |
|           | Silica Analyser - 1 no.   |          |       |            |             |                     |

**VOLUME-III**  
**PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.    | Item Description   | Quantity    |            | Unit Price | Total Price | Billing schdl. Ref. |
|------------|--|-------------|------------|------------|-------------|---------------------|
|            |  | Unit        | Value      | Rate       | Value       |                     |
|            | Hydrazine Analyser -2 nos.   |             |            |            |             |                     |
|            | Conductivity Analyser (Withdrawal Type) - 2 nos.   |             |            |            |             |                     |
| <b>B4</b>  | Erection and Commissioning of Flue Gas Analysers - Unit 1 & 2 comprising of details Below inclusive of all accessories and associated cablings : | <b>Set</b>  | <b>2</b>   |            |             | <b>6</b>            |
| B4.1       | Oxygen Analyser - 1 set  |             |            |            |             |                     |
| B4.2       | SOx / NOx / CO Analyser - 1 set  |             |            |            |             |                     |
| B4.3       | Opacity / Smoke Density / Dust Analyser - 1 set  |             |            |            |             |                     |
| <b>B5</b>  | <b>Level Switch - Unit 1 &amp; 2</b>   |             |            |            |             |                     |
| B5.1       | Capacitance Type Level Switch - inclusive of all accessories like electronic unit, cablings etc.   | Sets        | 4          |            |             | 7                   |
| B5.2       | Conductivity Type Level Switch - inclusive of all accessories like electronic unit, cablings etc.  | Sets        | 8          |            |             | 7                   |
| <b>B6</b>  | <b>Pressure Guage - Unit 1 &amp; 2</b>   | <b>Nos.</b> | <b>234</b> |            |             | 7                   |
| <b>B7</b>  | <b>Differential Pressure Guage - Unit 1 &amp; 2</b>  | <b>Nos.</b> | <b>18</b>  |            |             | 7                   |
| <b>B8</b>  | <b>Temperature Guage - Unit 1 &amp; 2</b>  | <b>Nos.</b> | <b>146</b> |            |             | 7                   |
| <b>B9</b>  | Commissioning of NRV valves, Stop valves, control Valves, HP/LP Bypass Valves ( Erection by other agency )                                       | <b>Nos</b>  | <b>50</b>  |            |             | 8                   |
| <b>B10</b> | Commissioning of Control valves (penumatic actuated) - ( Erected by other agency )   | <b>Nos</b>  | <b>20</b>  |            |             | 8                   |
| <b>B11</b> | <b>Local Instrument Enclosures / Racks (LIE / LIR) - Details given Below :</b>   |             |            |            |             |                     |
| B11.1      | LIE TYPE A   | Nos.        | 8          |            |             | <b>6</b>            |
| B11.2      | LIE TYPE B   | Nos.        | 1          |            |             |                     |
| B11.3      | LIE TYPE C   | Nos.        | 10         |            |             |                     |
| B11.4      | LIR TYPE A   | Nos.        | 1          |            |             |                     |
| B11.5      | LIR TYPE B   | Nos.        | 16         |            |             |                     |
| B11.6      | LIR TYPE C   | Nos.        | 80         |            |             |                     |

**VOLUME-III A**  
**PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.    | Item Description  | Quantity    |            | Unit Price | Total Price | Billing schdl. Ref. |
|------------|---|-------------|------------|------------|-------------|---------------------|
|            |   | Unit        | Value      | Rate       | Value       |                     |
| <b>B12</b> | <b>Impact Type Head Element (Anu Bar) - Unit 1 &amp; 2</b>  | <b>No.</b>  | <b>2</b>   |            |             | 6                   |
| <b>B13</b> | <b>WELDIN TYPE ORIFICE PLATE</b>  | <b>No.</b>  | <b>6</b>   |            |             | 4                   |
| <b>B14</b> | <b>Condensate Pots - Unit 1 &amp; 2- Details given Below :</b>  |             |            |            |             |                     |
| B14.1      | CP A106 GR C 88.90 OD x 7.6MM Thk.  | Nos.        | 90         |            |             | 7                   |
| B14.2      | CP A182 F22 :Dia 88.90 OD x 17.6 MM Thk   | Nos.        | 14         |            |             |                     |
| B14.3      | CP A105 88.90 OD x 12 MM Thk  | Nos.        | 30         |            |             |                     |
| <b>B15</b> | <b>Temperature Elements - Unit 1 &amp; 2 : Details given Below :</b>  |             |            |            |             |                     |
| B15.1      | RTD (PT-100) - ( All Variants & inclusive of metal temperature monitoring RTDs/ thermocouples )                                   | Nos.        | 138        |            |             | 7                   |
| B15.2      | Thermocouple K Type -( All Variants & inclusive of metal temperature monitoring RTDs )  | Nos.        | 130        |            |             | 7                   |
| <b>B16</b> | <b>Fabrication &amp; Erection of racks,all types of supports ,canopies etc. as reqd. excluding supply of structural materials</b> | <b>MT</b>   | <b>25</b>  |            |             | 5                   |
| <b>B17</b> | <b>Pressure / Differential Pressure Switch Unit 1 &amp; 2 - Details given Below :</b>   |             |            |            |             |                     |
| B17.1      | Pressure Switch   | Nos.        | 13         |            |             | 7                   |
| B17.2      | Differential Pressure Switch  | Nos.        | 14         |            |             |                     |
| <b>B18</b> | RTD for various application   | Nos.        | 70         |            |             | 7                   |
| <b>B19</b> | <b>UPS System (without ACDB) - Unit 1 &amp; 2</b>   | <b>Set</b>  | <b>2</b>   |            |             | 6                   |
| <b>B20</b> | <b>ACDB for UPS System - Unit 1 &amp; 2</b>   | <b>Set</b>  | <b>2</b>   |            |             | 6                   |
| <b>B21</b> | <b>Battery for UPS - Unit 1 &amp; 2</b>   | <b>Sets</b> | <b>4</b>   |            |             | 6                   |
| <b>B22</b> | <b>Electronic Transmitters - Unit 1 &amp; 2</b>   | <b>Nos.</b> | <b>220</b> |            |             | 7                   |
| <b>B23</b> | <b>Temperature Transmitters - Unit 1 &amp; 2</b>  | <b>Nos.</b> | <b>42</b>  |            |             | 7                   |
| <b>B24</b> | <b>Ultrasonic Type Level Transmitter - Unit 1 &amp; 2 ( With accessories , Cables &amp; Electronic Unit in Supply )</b>           | <b>Nos.</b> | <b>24</b>  |            |             | 7                   |

**VOLUME-III A**  
**PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.      | Item Description   | Quantity   |        | Unit Price | Total Price | Billing schdl. Ref. |
|--------------|--|------------|--------|------------|-------------|---------------------|
|              |  | Unit       | Value  | Rate       | Value       |                     |
| <b>B25</b>   | <b>MISC. FIELD INSTRUMENTS - Unit 1 &amp;2</b>   |            |        |            |             |                     |
| <b>b25.1</b> | Limit Switches ( Erection & Commissioning )  | Nos.       | 30     |            |             | 7                   |
| <b>b25.2</b> | Limit Switches ( Erection Excluded , Commg Only )  | Nos.       | 50     |            |             |                     |
| <b>b25.3</b> | REMOVAL, CALIBRATION, RE-MOUNTING AND COMMISSIONING OF INSTRUMENTS FOR SKID.<br>( EACH SKID WILL HAVE MINIMUM OF 05 NO. INSTRUMENTS E.G. PG/PS/TG/DPI /DPS/TS/RPM METER WITH PROBE/LS/LG /FS/FI ETC. DRESSING OF CAPILLARY & CABLES IF ANY, REPAIR OF CU/SS-TUBE/IMPULSE PIPE, IF ANY, CHANGING OF TERMINALS OF JB. IF ANY, IS ALSO INCLUDED.) | Nos.       | 10     |            |             |                     |
| <b>b25.4</b> | Bearing / Winding RTDs /TCs with Integral JB ( Remote Commg only )<br>( Each set consists of all RTDs/ TCs hooked upto an Integral JB )  | Nos.       | 20     |            |             |                     |
| <b>b25.5</b> | Skid / Equipment Mounted Standalone Field Instruments ( PG/PS/TG/DPI /DPS/TS/RPM METER WITH PROBE/LS/LG /FS/FI ETC - Individual instrument wise )  | Nos.       | 100    |            |             |                     |
| <b>b25.6</b> | Vibration / Speed Sensors ( With Probe & Mounting Arrangement )  | <b>Nos</b> | 100    |            |             |                     |
| <b>B26</b>   | <b>Instrumentation Cables - Unit 1 &amp; 2 - Details given Below :</b>   |            |        |            |             |                     |
| B26.1        | CBL 2P, 7/0.3, 0.5MM2,650V,U/A,I/O,ATC   | Mtrs       | 7,000  |            |             | 2                   |
| B26.2        | CBL 4P,7/0.3,0.5MM2,650/660V,U/A,I/O,ATC   | Mtrs       | 8,000  |            |             |                     |
| B26.3        | CBL 8P,7/0.3,0.5MM2,650/660V,U/A,I/O,ATC   | Mtrs       | 1,000  |            |             |                     |
| B26.4        | CBL12P,7/0.3,0.5MM2,650/660V,U/A,I/O,ATC   | Mtrs       | 2,000  |            |             |                     |
| B26.5        | CBL 2P,7/0.3,0.5MM2,650/660V,ARM,I/O,ATC   | Mtrs       | 14,000 |            |             | 2                   |
| B26.6        | CBL 8P,7/0.3,0.5MM2,650/660V,ARM,I/O,ATC   | Mtrs       | 3,000  |            |             |                     |
| B26.7        | CBL 2P, 7/0.3, 0.5MM2,650V,OVL, U/A,ATC  | Mtrs       | 1,000  |            |             |                     |
| B26.8        | CBL 4P, 7/0.3, 0.5MM2,650V,OVL, U/A,ATC  | Mtrs       | 8,000  |            |             |                     |

**VOLUME-III A**  
**PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.    | Item Description  | Quantity |         | Unit Price | Total Price | Billing schdl. Ref. |
|------------|---|----------|---------|------------|-------------|---------------------|
|            |   | Unit     | Value   | Rate       | Value       |                     |
| B26.9      | CBL 4P,7/0.3,0.5MM2,650/660V,ARM,OAL,ATC                            | Mtrs     | 14,000  |            |             | 2                   |
| B26.10     | CBL 8P, 7/0.3, 0.5MM2,650V, ARM,OAL,ATC                             | Mtrs     | 2,400   |            |             |                     |
| B26.11     | CBL 5C, 2.5 sq.mm, power / control cable                            | Mtrs     | 14,000  |            |             |                     |
| B26.12     | CBL 4P,7/0.3,0.5MM2,650/660V,ARM,I/O,ATC                            | Mtrs     | 8,000   |            |             |                     |
| B26.13     | CBL 2P,7/0.3,0.5MM2,650/660V,ARM,OAL,ATC                            | Mtrs     | 5,000   |            |             |                     |
| B26.14     | CBL 8P,7/0.3,0.5MM2,650/660V,OVL,U/A,ATC                            | Mtrs     | 6,000   |            |             |                     |
| B26.15     | CBL 2P,0.5MM2,Conforming to IS 694 & IS 1554 Part-I                 | Mtrs     | 52,000  |            |             |                     |
| B26.16     | CBL 4P,0.5MM2,Conforming to IS 694 & IS 1554 Part-I                 | Mtrs     | 54,000  |            |             |                     |
| B26.17     | CBL 8P,0.5MM2,Conforming to IS 694 & IS 1554 Part-I                 | Mtrs     | 101,000 |            |             |                     |
| B26.18     | CBL 20P-24P ,7/0.3,0.5MM2,650/660V,ARM,I/O ,ATC                     | Mtrs     | 10000   |            |             |                     |
| <b>B27</b> | <b>Thermocouple Cables - Unit 1 &amp; 2 - Details given Below :</b> |          |         |            |             |                     |
| B27.1      | CBL 6P T/C EXTN ( ALL VARIANTS )                                    | Mtrs     | 2,000   |            |             | 2                   |
| B27.2      | CBL 4P, T/C EXTN ( ALL VARIANTS)                                    | Mtrs     | 2,000   |            |             |                     |
| B27.3      | CBL 2P, T/C EXTN ( ALL VARIANTS )                                   | Mtrs     | 2000    |            |             |                     |
| <b>B28</b> | <b>FRP Junction Boxes - Unit 1 &amp; 2 - Details given Below :</b>  |          |         |            |             |                     |
| B28.1      | 12 WAYS FRP JUNCTION BOX  | Nos.     | 16      |            |             | 3                   |
| B28.2      | 24 WAYS FRP JUNCTION BOX  | Nos.     | 52      |            |             |                     |
| B28.3      | 36 WAYS FRP JUNCTION BOX  | Nos.     | 20      |            |             |                     |
| B28.4      | 48 WAYS FRP JUNCTION BOX  | Nos.     | 22      |            |             |                     |
| B28.5      | 64 WAYS FRP JUNCTION BOX  | Nos.     | 144     |            |             | 3                   |
| B28.6      | 72 - 128 WAYS FRP JUNCTION BOX                                      | Nos.     | 4       |            |             |                     |

**VOLUME-III A**  
**PRICE SCHEDULE, REV-1**

**Job: Erection, testing, commissioning etc of complete C&I system including all max system & panels , MMI system for GT, Static starting system of GT, STG, HRSG and station C&I, controls and C&I of balance system/item for 2X363.3 MW units at Palatana, Tripura**

**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.    | Item Description   | Quantity    |          | Unit Price | Total Price | Billing schdl. Ref. |
|------------|--|-------------|----------|------------|-------------|---------------------|
|            |  | Unit        | Value    | Rate       | Value       |                     |
| <b>B29</b> | <b>Guided Wave Radar Type Level Transmitter - Unit 1 &amp; 2 ( With all accessories , cables &amp; Electronic Unit of the supply )</b> | <b>Nos.</b> | <b>6</b> |            |             | 6                   |
| <b>B30</b> | <b>HART Management System - Unit 1 &amp; 2</b>   |             |          |            |             |                     |
| B30.1      | HMS System Control Panels  | <b>Nos.</b> | <b>2</b> |            |             | 6                   |
| B30.2      | HMS System PC with Monitor & Accessories   | <b>Nos</b>  | <b>2</b> |            |             |                     |
| B30.3      | Special Cables of HMS Pkg Integral Supply ( Serial Cable etc . )<br>( FOC , UTP , Pair & Power cables excluded )                       | <b>Sets</b> | <b>2</b> |            |             |                     |
| <b>B31</b> | <b>Cable Trays - Unit 1 &amp; 2 - Details Below :</b>  |             |          |            |             |                     |
| B31.1      | CABLE TRAYS WITHOUT COVER : 50MM   | Mtrs        | 4,000    |            |             | 1                   |
| B31.2      | CABLE TRAYS WITHOUT COVER : 100MM  | Mtrs        | 4,000    |            |             |                     |
| B31.3      | CABLE TRAYS WITH COVER 50MM X 25MM   | Mtrs        | 3,000    |            |             |                     |
| B31.4      | CABLE TRAYS WITH COVER 100MM X 25MM  | Mtrs        | 4,000    |            |             |                     |
| B31.5      | CABLE TRAYS WITHOUT COVER 150MM X 25MM   | Mtrs        | 1000     |            |             |                     |
| B31.6      | CABLE TRAYS WITH COVER 150MM X 25MM  | Mtrs        | 1000     |            |             |                     |
| B31.7      | GI / PVC CONDUITE UPTO 1 "   | Mtrs        | 1000     |            |             | 4                   |
| B31.8      | PVC ENCASING UPTO 1 "  | Mtrs        | 500      |            |             | 4                   |
| <b>B32</b> | <b>Computer Furniture for DCS &amp; HMI Package - Unit 1 &amp; 2 - Details Below :</b>   |             |          |            |             |                     |
| B32.1      | Computer Table<br>Payment Terms - 80 % after installation<br>- 20% after coal firing   | Nos         | 16       |            |             |                     |
| B32.2      | Printer Table<br>Payment Terms - 80 % after installation<br>- 20% after coal firing  | Nos         | 10       |            |             |                     |

**VOLUME-III A**  
**PRICE SCHEDULE, REV-1**

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**Tender no. PSER:SCT:PAL-I1263:11**

| Sl. No.                                | Item Description   | Quantity   |          | Unit Price | Total Price | Billing schdl. Ref. |
|--|--|------------|----------|------------|-------------|---------------------|
|  |  | Unit       | Value    | Rate       | Value       |                     |
| B32.3                                  | Computer Chair<br>Payment Terms - 80 % after installation<br>- 20% after coal firing   | Nos        | 32       |            |             |                     |
| <b>B33</b>                             | <b>LVS System - LVS DLP projectors (2 nos LVS) with accessories - Unit 1 &amp; 2</b>   | <b>Set</b> | <b>2</b> |            |             | 6                   |
| <b>B34</b>                             | <b>SEE Excitation Transformer 2000 KVA, 6.6 KV / 415 V Dry Type - Unit 1 &amp; 2</b>   | <b>Set</b> | <b>2</b> |            |             | 7                   |
| <b>C. Common for Units # 1 &amp; 2</b> |  |            |          |            |             |                     |
| C1                                     | Closed Circuit Television (CCTV) System - Common for Units 1 & 2   |            |          |            |             | 9                   |
| C1.1                                   | CCTV Control Panels  | Nos        | 2        |            |             |                     |
| C1.2                                   | CCTV Local Enclosures with all accessories   | Nos        | 10       |            |             |                     |
| C1.3                                   | CCTV Camera with accessories   | Nos        | 20       |            |             |                     |
| C1.4                                   | CCTV Control Station / CCTV PC with Monitor & Accessories  | Nos        | 4        |            |             |                     |
| C1.5                                   | Standalone UPS upto 1 KVA ( For Remote CCTV Enclosures )   | Nos        | 8        |            |             |                     |
| C1.6                                   | Special Cables of CCTV Pkg Supply ( Serial Cable , RGB Cable etc . )<br>( FOC , UTP , Pair & Power cables excluded )             | Mtr        | 1000     |            |             |                     |
| C2                                     | Master Slave Clock System - Common for Units 1 & 2   |            |          |            |             |                     |
| C2.1                                   | Master Slave Clock System - Control Panel  | Nos        | 1        |            |             |                     |
| C2.2                                   | Master Slave Clock System - Display Unit   | Nos        | 2        |            |             |                     |
| C2.3                                   | Special Cables of Master Slave Pkg Supply ( Serial Cable , Coaxial Cable etc . )<br>( FOC , UTP , Pair & Power cables excluded ) | Mtr        | 1000     |            |             |                     |
| C3                                     | Operator Desk (Control Desk) for OWS (For Units 1 & 2)   | Set        | 1        |            |             | 9                   |

**VOLUME-III A**  
**PRICE SCHEDULE, REV-1**

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| Sl. No.   | Item Description   | Quantity |       | Unit Price | Total Price | Billing schdl. Ref. |
|---|--|----------|-------|------------|-------------|---------------------|
|   |  | Unit     | Value | Rate       | Value       |                     |
| C4  | Fibre Optic Cable for DCS & HMI Package - Common for Units 1 & 2<br>- Multi Mode / Single Mode ( Laying Only )   | Mtr      | 5000  |            |             | 2                   |
| C5  | UTP Cable for DCS & HMI Package for Unit 1&2   | Mtr      | 6000  |            |             | 2                   |
| <b>D. LOAD COMMUTATED INVERTER for Units # 1 &amp; 2</b>  |  |          |       |            |             |                     |
| D1  | Erection and commissioning charges of AC adjustable Speed drive unit / LCI Compartment - Unit-I of dimension - 7620 (L) x 3505 (W) x 3454 ( H) - Weighing about 18 MT  | Set      | 1     |            |             | 2                   |
| D2  | Erection and commissioning charges of AC adjustable Speed drive unit / LCI Compartment -Unit- II of dimension - 9144 (L) x 3505 (W) x 3454 ( H) - Weighing about 20 MT | Set      | 1     |            |             | 2                   |
| <b>E - MISCELLANEOUS</b>                                  |  |          |       |            |             |                     |
| E1  | HPBP LOCAL CONTROL SKID / OSU Instrumentation ( Commissioning Only ) Unit 1&2  | Sets     | 2     |            |             | 8                   |
| E2  | LPBP LOCAL CONTROL SKID Instrumentation ( Commissioning Only ) Unit 1&2  | Sets     | 2     |            |             |                     |
| F   | <b>POWER CYLINDER</b>  | Nos      | 5     |            |             | 11                  |
| G   | <b>SUPPLY OF CRIMPING LUGS</b>   | Nos      | 10000 |            |             | 12                  |
| <b>GRAND TOTAL FOR ALL ITEMS FOR UNIT#1 &amp; UNIT #2</b> |  |          |       |            |             |                     |