



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 03

Ref: PSER:SCT: SAL-E1702-TCN-03

Date:10/11/15

Sub	Tender change notice (TCN) 03	
Job	HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM	
Ref	1.0	Tender no PSER:SCT: SAL:E1702:15
	2.0	BHEL's NIT, vide reference no PSER: SCT:SAL:E1702:15:4725 Dated:13/10/15
	3.0	BHEL's TCN -01 ref PSER:SCT: SAL-E1702-TCN-01 dated 28/10/15
	4.0	BHEL's TCN -02 ref PSER:SCT: SAL-E1702-TCN-02 dated 03/11/15
	5.0	All other pertinent issues till date.

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

- 1.0 Due date of submission of offer is extended from 10/11/15 upto 16/11/15 at 15.00 hrs.
- 2.0 Revised BOQ cum price schedule format VOL-III- PRICE SCHEDULE, REV-02 superseding VOL-III PRICE SCHEDULE, REV-01 issued earlier along with TCN-02.
Bidders are requested to submit their offer as per revised BOQ (Rev-02) only. Offer from bidders in superseded price schedule (Vol-III, REV-01) shall not be considered. Bidders are also requested to submit a declaration in techno-commercial offer that they have submitted their price bid as per REVISED price schedule format (VOL-III- PRICE SCHEDULE, REV-02).
- 3.0 Unpriced –Price Schedule (latest revision) as indicated in CI No 5, Part IA(xii)of NIT (to be duly filled up indicating 'QUOTED' against each item by the bidder) which is to be uploaded alongwith technocommercial bid is attached herewith.
- 4.0 Clarification to bidder's queries is attached vide Annexure-A to this TCN-03.
- 5.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder to submit.'No deviation certificate' as per attached format only.
- 6.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

DY MGR (SCT)

Encl

As above.

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	HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM	
Ref	1.0	Tender no PSER:SCT: SAL:E1702:15
	2.0	BHEL's NIT, vide reference no PSER: SCT:SAL:E1702:15:4725 Dated:13/10/15
	3.0	BHEL's TCN-01, vide reference no PSER:SCT: SAL-E1702-TCN-01 Dated: 28/10/15
	4.0	BHEL's TCN-02, vide reference no PSER:SCT: SAL-E1702-TCN-02 Dated: 03/11/15
	5.0	BHEL's TCN-03, vide reference no PSER:SCT: SAL-E1702-TCN-03 Dated: 10/11/15
	6.0	All other pertinent issues till date.

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)

ANNEXURE – A TO TCN -03

JOB	HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM
TENDER NO	PSER:SCT:SAL -E1702:15

Sl no	Reference clause of tender document	Existing provision	Bidder's query	BHEL's clarification
1.	VOL-III A , PRICE SCHEDULE, PREAMBLE POINT NO 3	Rates shall be quoted in figures and 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 language .	But Price schedule downloaded in excel format is protected.So no changes can be done apart from the rates	PI refer Price Schedule Vol-III A, R-02 issued alongwith this TCN -03 of tender.
2.	Vol-1E Forms and Procedures Annexure-C ,Proforma for Financial viability , Point No 7	Certificate from Scheduled Bank to prove contractor's financial capacity to underake the work duly indicating the financial limits the tenderer enjoys .	PI confirm if document is mandatory.PI provide specific format for the same if required.	Yes Format shall be as issued by Banks.
3	VOLUME -1E, Forms and Procedure, Annexure-E &Form – F2	Monthwise Manpower deployment plan	In both the annexure, BHEL asked for monthly manpower deployment.Please confirm if we have to submit both the annexures.	Shall be as per tender.

**VOLUME-III
PRICE SCHEDULE, REV-02**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PREAMBLE

1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with Volume-IB, ID, IE , Volume – IF and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where in this document.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	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(except service tax), 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 complete tender document and this schedule.
5	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 .
6	Prior written approval of BHEL shall be sought by the contractor in case quantity variation of any item crosses +50% (plus fifty percent) limit during execution and approval to be obtained before execution of further quantity for this item.
7	In case Sealed /Paper Price Bids are opened for finalisation of the tender, for any Item Rate/BOQ based contract, possibility of variation of quantity/ addition/deletion of items can not be ruled out. Under such circumstances, after execution of work, if it is observed that standing as L-1 is changed based on actual quantity executed, the bidder shall give suitable rebate to maintain your standing as L-1. Since this aspect can be assessed at the end of execution, necessary adjustment will be effected at the end of execution in final bill. This condition shall not be applicable where the tender is finalised through Reverse Auction.
8	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
9	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same. However, if separate rate for such item is available in the rate schedule, the same shall be considered.
10	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 language.
11	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.

**VOLUME-III
PRICE SCHEDULE, REV-02**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PREAMBLE

- | | |
|----|--|
| 12 | 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. |
| 13 | No splitting of the job is envisaged. Decision of BHEL in this regard shall be final and binding to the bidders. |
| 14 | Bidders are not allowed to alter the Price Schedule format including item description, quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them. BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/ altered by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection. |
| 15 | Bidders to note that for Civil &/Structural packages, against a particular item against a ST No. appearing in more than one schedule of the BOQ, same rate must be quoted in all schedules for that particular items with same descriptions. If by error, different rates are quoted in different schedules for same ST No. (i.e. item with same description), then the higher of the rates shall be considered for evaluation but awarding shall be done with the lower rate, if the bidder becomes L-1." |
| 16 | For Lumpsum Service Contract : The items/components indicated in the tender is indicative and may vary to any extent. No compensation shall be payable in case of any variation in the items/components listed in the bill of quantities if the executed weight remains within the variation limit. However, in case of deletion of any item or addition of new items over and above the items listed or variation of existing quantity beyond variation limit specified, adjustment (i.e. Payment or recovery as the case may be) shall be done on pro-rata basis based on the Rate per MT worked out from the quoted lump-sum Price and the total weight of components listed /indicated in price schedule plus 15% weight variation limit. |
| 17 | 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. |
| 18 | In case of tender for Civil and/or Structural works, if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/DSR schedule as prescribed in the tender/BOQ cum Rate Schedule. |
| 19 | No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor. |
| 20 | Size and weights of various items are mentioned in the attached BOQ cum rate/price schedule for reference purpose only & these shall not be taken into consideration for quoting/calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items. |
| 21 | Bidder's GRAND Total price will be shall be considered for evaluation unless stated otherwise. |
| 22 | In case of BOP packages, if Bidder does not quote/indicate the price for freight charges against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoted price against each item keeping the total quoted price unaltered. |

**VOLUME-III
PRICE SCHEDULE, REV-02**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL-E1702:15

SUMMARY

SL NO	ITEM/SCHEDULE	TOTAL AMOUNT (Rs)
1	RATE SCHEDULE, PART-A - ELECTRICAL HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL FOR BOILER & TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM	0
2	RATE SCHEDULE, PART-B - C&I HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF CONTROL & INSTRUMENTATION OF BOILER & TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM	0
	GRAND TOTAL (PART-A + PART-B) (TOTAL VALUE IN FIGURES)	0
	TOTAL VALUE IN WORDS (TO BE INDICATED HERE)	

VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
1.0	HVR TRANSFORMERS 70 KV, 1200mA (ERECTION EXCLUDED)					
1.1	TESTING & COMMISSIONING OF HV RECTIFIER TRANSFORMER FOR ESP INCLUDING DISCONNECTING SWITCH	24	NOS	8		0
1.2	DRY OUT / OIL FILTRATION OF HV RECTIFIER TRANSFORMER FOR ESP	24	NOS	8		0
2.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of AUXILIARY CONTROL PANEL (ACP) (DOUBLE FRONT, DRAW OUT TYPE) (7127mm L x 1300 mm W x 2400 mm H) 800 kg	4	NOS	5		0
3.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of ELECTRONIC CONTROL PANEL (ECP) (600 L x 550 W x 2000 H), 300 kg	24	NOS	5		0
4.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of RAPPER CONTROL PANEL (1000 L x 500 W x 2050 H), 200 kg	4	NOS	5		0
5.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of STATCON PANEL (1000 L x 500 W x 2050 H), 200 kg	2	NOS	5		0
6.0	ERECTION, TESTING & COMMISSIONING OF IOS PANEL (1000 L x 500 W x 2050 H), 200 kg	1	NO	5		0
7.0	FIXING OF BAPCON CONTROLLER IN EC PANEL (280 L x 210 D x 210 H), 5kg	24	NOS	5		0

VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
8.0	FIXING OF RAPCON CONTROLLER IN EC PANEL (280 L x 210 D x 210 H), 5kg	8	NOS	5		0
9.0	FIXING OF STATCON CONTROLLER IN EC PANEL (280 L x 210 D x 210 H), 5kg	2	NOS	5		0
11.0	TESTING , COMMISSIONING OF MOTORS (2 NOS.) & HEATERS(1 NO) FOR HOT AIR FLUSHING SYSTEM (HAFS)	4	NOS	8		0
12.0	TESTING & COMMISSIONING OF HEATING ELEMENTS FOR HOPPER (PANEL TYPE)	48	NOS	8		0
13.0	TESTING & COMMISSIONING OF THERMOSTAT FOR HOPPER (750 L x 100 D x 100 H)	48	NOS	8		0
14.0	TESTING & COMMISSIONING OF HEATING ELEMENTS FOR SHAFT INSULATOR HEATERS	24	NOS	8		0
15.0	TESTING & COMMISSIONING OF HEATING ELEMENTS FOR SUPPORT INSULATOR HEATER	96	NOS	8		0
16.0	LOCAL START STOP PUSH BUTTON FOR RAPPING MOTOR (180 L x 100 D x 250 H), 5 kg	52	NOS	3		0
17.0	ERECTION , TESTING & COMMISSIONING OF SOOT BLOWER MCC	1	NO	5		0
18.0	VFD PANELS (Fixing of loose items, testing & commissioning excluding erection and alignment)					0
18.1	LOAD COMMUTATED INVERTER (LCI) CHANNELS FOR ID FANS (3679X2420X1450/ 3000kg)	4	NO	9		0
18.2	ADAPTER PANEL (577 x 1450 x 2330/ 200KG)	4	NO	9		0
18.3	COMMON CONTROL PANEL (800 x 1450 x 2330/ 200KG)	2	NO	9		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
18.4	VACCUM CIRCUIT BREAKER (2355 x 1640 x 2300/ 1350KG)	4	NO	9		0
19.0	FIXING OF LOOSE ITEMS, TESTING & COMMISSIONING OF O&M PANEL(600 x 600 x 1050/ 100 KG)	1	NO	9		0
20.0	FIXING OF LOOSE ITEMS, TESTING & COMMISSIONING OF AIR CORE DC REACTOR WITH FLEXIBLE COUPLING (2250 x 1975 x 2350/ 1750KG)	4	SET	9		0
21.0	MOTORS (TESTING, COMMISSIONING & DRYOUT)					0
21.1	MOTOR FOR FD FAN 1125 KW, (2340 x 1950 x 1300), HT	2	NOS	8		0
21.2	MOTOR FOR PA FAN 1750 KW, (2600 x 2050 x 1600), 8 HT	2	NOS	8		0
21.3	MOTOR FOR MILL 425 KW, (2000 x 2000 x 1500), HT	6	NOS	8		0
21.4	MOTOR FOR BFP 4600 KW, (4000 x 3000 x 3000), HT	3	NOS	8		0
21.5	MOTOR FOR CEP 650 KW, (2000 x 1600 x 2500), HT	2	NOS	8		0
21.6	MOTOR FOR ID FAN 4065 KW, (4800 x 3400 x 2900), HT	2	NOS	8		0
21.7	HT MOTORS	20	NOS	8		0
21.8	LT MOTORS	120	NOS	8		0
22.0	JUNCTION BOX					0
22.1	FIXING OF JUNCTION BOX FOR HOPPER HEATERS (600 L x 278 D x 515 H), 15 Kg	48	NOS	3		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
22.2	FIXING OF JUNCTION BOX FOR SUPPORT INSULATOR HEATERS VAR.04 (450 L x 150 D x 300 H), 15Kg	8	NOS	3		0
22.3	FIXING OF JUNCTION BOX FOR SHAFT INSULATOR HEATERS – VAR.03 (450 L x 150 D x 300 H), 15 Kg.	4	NOS	3		0
22.4	FIXING OF JUNCTION BOX FOR START STOP PB (250 L x 150 D x 400 H), 12 Kg	8	NOS	3		0
22.5	FIXING OF JUNCTION BOX FOR ALI – HIGH & LOW (250 L x 150 D x 400 H), 12 Kg	8	NOS	3		0
22.6	FIXING OF JUNCTION BOX FOR OPACITY MONITOR (250 L x 150 D x 400 H), 12 Kg	4	NOS	3		0
22.7	FIXING OF JUNCTION BOX - GAL (POWER) VAR-01	4	NOS	3		0
22.8	FIXING OF JUNCTION BOX - GAL (POWER) VAR-06	8	NOS	3		0
22.9	JUNCTION BOX (MISCELLANEOUS PURPOSE)	6	NO.S	3		0
23.0	LT POWER CABLES LAYING & TERMINATION TO THE RESPECTIVE EQPT.					0
23.1	2C-120 SQ.MM AL	15000	MTR	2		0
23.2	3C-120 SQ.MM AL CABLE	500	MTR	2		0
23.3	3C-25 SQ.MM AL	17000	MTR	2		0
23.4	2C-2.5 SQ.MM CU	1500	MTR	2		0
23.5	3C-2.5 SQ.MM CU	10000	MTR	2		0
23.6	3CX16 SQ.MM.UNARMoured FRLS POWER CABLE	1600	MTR	2		0

VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
23.7	CBL 2C , 6 MM2 , 1100V , STRAN , ABC,U/A	500	MTR	2		0
23.8	CBL PVC FRLS,XLPE,1C,630MM2,AL,1.1KV U/A	650	MTR	2		0
23.9	CBL PVC FRLS,PVC,1C,120MM2,AL,1.1KV U/A	8500	MTR	2		0
23.10	CBL PVC FRLS,PVC,1C,35MM2,AL,1.1KV U/A	12000	MTR	2		0
24.0	LT CONTROL CABLES LAYING & TERMINATION TO THE RESPECTIVE EQPT.					0
24.1	12C-1.5 MM ² CU	10000	MTR	2		0
24.2	3C-1.5 SQ.MM CU	9000	MTR	2		0
24.3	2C-1.5 MM ² CU	12000	MTR	2		0
24.4	14C-1.5 MM ² CU	3000	MTR	2		0
24.5	LT SCREENED COPPER UNARMoured CABLE, 4C-1.5 MM ²	17500	MTR	2		0
26.0	STRUCTURAL ITEM					0
26.1	ISA 50 X 50 X 6	350	MTR	4		0
26.2	ISMC 75 X 40	1020	MTR	4		0
26.3	ISMC 200	70	MTR	4		0
26.4	GI FLAT 50X6	2000	MTR	4		0
26.5	GI FLAT 30X5	1800	MTR	4		0
26.6	GI WIRE 8 SWG	1000	KG	4		0
26.7	CHEQUERED PLATE 5 MM	15	SQ.M	4		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
27.0	CABLE TRAYS & EARTHING MATERIALS					0
27.1	HOT DIP GALVANISED CABLE TRAY COMPLETE WITH COUPLER PLATES, FASTENERS, CLAMPS AND FIXING HARDWARE (LADDER TYPE) (INCLUDING FABRICATION OF IRREGULAR TRAY & ACCESSORIES TO SUIT LAYOUT AS REQUIRED)					0
27.1.1	600 MM WIDE LADDER TYPE	2000	MTR	1		0
27.1.2	450 MM WIDE LADDER TYPE	3300	MTR	1		0
27.1.3	300 MM WIDE LADDER TYPE	2500	MTR	1		0
27.1.4	150 MM WIDE LADDER TYPE	4000	MTR	1		0
27.2	HOT DIP GALVANISED CABLE TRAY COMPLETE WITH COUPLER PLATES, FASTENERS, CLAMPS AND FIXING HARDWARE (PERFORATED TYPE) (INCLUDING FABRICATION OF IRREGULAR TRAY & ACCESSORIES TO SUIT LAYOUT AS REQUIRED)					0
27.2.1	600 MM WIDE PERFORATED TYPE	1500	MTR	1		0
27.2.2	450 MM WIDE PERFORATED TYPE	2500	MTR	1		0
27.2.3	300MM WIDE PERFORATED TYPE	1600	MTR	1		0
27.2.4	150 MM WIDE PERFORATED TYPE	525	MTR	1		0
27.3	COUPLER PLATES AND FASTENERS FOR TRAYS	22500	Nos	1		0
27.4	CABLE TRAY SUPPORT MATERIAL (INCLUDING FABRICATION OF BASE FRAMES OF SWITCHGEARS, LCP, LPB, STARTERS ETC.)					0
27.4.1	STRUCTURAL STEEL (ANGLE/CHANNEL/PLATES/CABLE TRAY SUPPORT SYSTEM -- BOLTABLE TYPE)	25	MT	1		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
27.4.2	CONDUITS OR PIPES(DIA SIZE 1/2" TO 3")	100	Mtr	1		0
27.4.3	EQUIPMENT EARTHING MATERIAL					0
27.4.4	GL FLATS.OF VARIOUS SIZES	10	MT	4		0
27.4.5	GI WIRE 8 SWG /14SWG/3.15MM WIRE DIA	6020	MTR	4		0
28.0	SUPPLY OF TINNED COPPER/ALUMINIUM LUG (SOLDERLESS CRIMPING TYPE) (MAKE: DOWELLS/ UML ENGINNERS OR EQUIVALENT) SUPPLY TO BE MADE AS PER SITE REQUIREMENT AGAINST CLEARANCE FROM BHEL SITE.					0
28.1	1.5 to 2.5 SQ MM (COPPER)	500	NO	7		0
28.2	4 SQMM (COPPER)	100	NO	7		0
28.3	6 SQMM (ALUMINIUM)	50	NO	7		0
28.4	10 SQMM (ALUMINIUM)	40	NO	7		0
28.5	16 SQMM (ALUMINIUM)	30	NO	7		0
28.6	25 SQMM (ALUMINIUM)	20	NO	7		0
28.7	50 SQMM (ALUMINIUM)	20	NO	7		0
28.8	70 SQMM (ALUMINIUM)	20	NO	7		0
28.9	120 SQMM (ALUMINIUM)	80	NO	7		0
28.10	COMMISSIONING OF ELECTRIC HOIST	12	NOS	8		0
28.11	COMMISSIONING OF MOTOR OPERATED VALVES	200	NOS	8		0
28.12	COMMISSIONING OF LRSB AND WALL DESLAGGER	76	NOS	8		0
28.13	ERECTION AND COMMISSIONING OF DC STARTER PANEL & RESISTANCE BOX (EOP , JOP , SOP)	3	NOS	5		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

**TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15
PRICE SCHEDULE (PART-A)**

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
29.0	SUPPLY OF DOUBLE COMPRESSION HEAVY DUTY BRASS CABLE GLAND AS PER FOLLOWING (MAKE: COMMET INDRUSTRIES/ SUNIL & CO/ ARUP ENGINEERING OR EQUIVALENT); SUPPLY TO BE MADE AS PER SITE REQUIREMENT AGAINST CLEARANCE FROM BHEL SITE.					0
	ABOVE (MM) UPTO (MM) Approx. overall dia.					0
29.1	-- 15	30	NO	7		0
29.2	15 18	30	NO	7		0
29.3	18 21	20	NO	7		0
29.4	21 24	20	NO	7		0
29.5	24 27	20	NO	7		0
29.6	27 30	20	NO	7		0
29.7	30 33	10	NO	7		0
29.8	33 36	10	NO	7		0
29.9	36 39	10	NO	7		0
29.10	39 42	10	NO	7		0
29.11	42 46	10	NO	7		0
29.12	46 50	10	NO	7		0
30.0	ONLY COMMISSIONING RATE TO BE QUOTED FOR FOLLOWING ITEMS.					0
30.1	THERMOSTAT FOR HOPPER (350X100X100)	72	NOS	8		0
30.2	THERMOSTAT FOR SUPPORT INSULATOR (35X100X100)	8	NOS	8		0

**VOLUME-III, REV-02
PRICE SCHEDULE,PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
30.3	GEARED MOTOR FOR COLLECTING ELECTRODE RAPPING 0.25 KW,1.1RPM	8	NOS	8		0
30.4	GEARED MOTOR FOR GD SCREEN RAPPING MOTOR 0.25KW, 1.1RPM	2	NOS	8		0
30.5	GEARED MOTOR FOR EMITTING ELECTRODE RAPPING MOTOR 0.25KW, 2.5 RPM	8	NOS	8		0
30.6	DISCONNECTING SWITCH (1200X1100X750)	8	NOS	8		0
31.0	ELECTRICAL/ELECTRONIC EARTH PIT					0
31.1	INSTALLATION OF ELECTRICAL EARTH ELECTRODE INCLUDING CIVIL WORKS	10	NOS	4		0
31.2	INSTALLATION OF ELECTRONIC EARTH ELECTRODE INCLUDING CIVIL WORKS	10	NOS	4		0
32.0	ERECTION, TESTING & COMMISSIONING OF ONAN TYPE TRANSFORMER FOR VFD SYSTEM(2725X3700X3000/ 9600 KG)	4	NOS	10		0
33.0	FIXING OF INTERLOCKS FOR ECP (ESP)	24	NOS	6		0
34.0	OPACITY MONITOR (OPM)	4	NOS	6		0
35.0	DATA LOGGER PC WITH COLOUR MONITOR (1220 L x 762 D)	1	NO	6		0
36.0	PRINTER (INKJET) (762 L x 610 W)	1	NO	6		0
37.0	ERECTION, TESTING & COMMISSIONING OF DIGITAL AVR PANEL(REG 1 & 2 THY-1 & FS-1) - 4 PANELS(4053x24155x800)	1	SET	5		0
38.0	Testing & commissioning of the following:					0
38.1	HP dozing/ phosphahate dozing skid (4 motors)	1	NOS	8		0
38.2	LP dozing/ hydrazine dozing skid (3 motors)	1	NOS	8		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
38.3	LP dozing/ ammonia dozing skid (3 motors)	1	NOS	8		0
38.4	Hydrogen dryer (1 x fan + 1 x compressor)	2	NOS	8		0
38.5	NaOH SKID (1 motor)	1	NOS	8		0
38.6	OIL CENTRIFUSE SKID (1 motor)	1	NOS	8		0
39.0	MINOR CIVIL WORK					0
39.1	CHIPPING / BREAKING OF BRICK WALL AND CONCRETE FLOOR/WALL [INCLUDING FINISHING]	20	Cu. M	9		0
39.2	SUPPLY & INSTALLATION OF HEAVY DUTY GALVANISED FRICTION ANCHOR FASTNERS OF HILTI / BOSCH OR ANY OTHER APPROVED MAKE OF DIA 16 MM AND 100 MM LENGTH WITH SUPPLY OF ALL HARDWARES AS REQUIRED.	40	NOS	9		0
39.3	EXCAVATION WITH LIFT UP TO 0.5 METERS INCLUDING DRAINING AND PUMPING OUT WATER TO MAINTAIN REASONABLY DRY WORKING CONDITION FOR ALL ACTIVITIES, INCLUDING BACKFILLING & COMPACTION OF EXCAVATED MATERIAL AFTER COMPLETION OF THE ACTIVITIES ETC. ALL COMPLETE AS PER DRAWINGS AND/OR INSTRUCTIONS OF THE ENGINEER.	20	Cu. M	9		0
TOTAL -- PART-A - ELECTRICAL (IN RS) (TOTAL VALUE IN FIGURES)						0
TOTAL VALUE IN WORDS (TO BE INDICATED HERE)						

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
1.0	PANELS & CUBICLES					
1.1	DCS PANELS					
1.1.1	SUITE OF 1 PANEL (750X750X2415)	NO	1	6		0
1.1.2	SUITE OF 2 PANEL (750X750X2415)	NO	10	6		0
1.1.3	SUITE OF 3 PANEL (750X750X2415)	NO	13	6		0
1.1.4	SUITE OF 4 PANEL (750X750X2415)	NO	2	6		0
1.1.5	SUITE OF 5 PANEL (750X750X2415)	NO	1	6		0
1.1.6	SUITE OF 9 PANEL (750X750X2415)	NO	1	6		0
1.2	GAS ANALYSER CABINET (1000X800X2200)	NO	1	6		0
1.3	GENERATOR INSTRUMENTATION CABINET (1000X800X2200)	NO	1	6		0
1.4	GRAVIMETRIC FEEDER REMOTE POWER CABINET(1200X2315X600)	NO	6	6		0
1.5	DC SCANNER AIR FAN STARTER(900X1120X375)	NO	1	6		0
1.6	FTP LOCAL STARTER (600X600X300)	NO	2	6		0
1.7	EWLI LOCAL PANEL(600X600X350)	NO	4	6		0
1.8	EWLI REMOTE DISPLAY UNIT(99X234X91)	NO	4	6		0
1.9	ERV LOCAL CONTROLLER BOX(400X350X270)	NO	4	6		0
1.10	STEAM LEAK DETECTION (STLD) SYSTEM PANEL(800X2315X800)	NO	2	6		0
1.11	ELEVATOR CONTROL PANEL (1200X2400X500)	NO	1	6		0
1.12	FURNACE FLAME VIEWING SYSTEM - REMOTE PANEL(800X2100X800)	NO	2	6		0
1.13	FURNACE FLAME VIEWING SYSTEM - LOCAL PANEL(800X2100X800)	NO	2	6		0
1.14	ROTOR STOPPAGE ALARM BOX	NO	3	6		0
1.15	TURBINE SUPERVISORY SYSTEM CONSISTING OF SERVER ,MONITOR,PRINTER AND ACCESSORIES	SET	2	6		0
1.16	GENERATOR STATOR WATER PANEL, SIGNALING PANEL & SEAL OIL PANEL (Size approx - 1400X2365X800)	SET	1	6		0
1.17	GENERATOR END-WINDING VIBRATION PANEL	NO	1	6		0
1.18	ACOUSTIC PYROMETER PANEL	NO	1	6		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
2.0	HMI SYSTEM & OTHERS					0
2.1	MAX ENGINEER STATIONS (EWS): (1 SET COMPRISES OF 1 NO. CPU, KEYBOARD, PRINTER, ACCESSORIES AND 1 NO. MONITOR) (1500X750X740)	SET	3	6		0
2.2	MAXSTORIAN STATIONS (EWS): (1 SET COMPRISES OF 2 NO. CPU, KEYBOARD PRINTER, ACCESSORIES AND 1 NO. MONITOR) (1500X750X740)	SET	2	6		0
2.3	MAX OPERATOR WORK STATION (OWS) :COMPUTER CONSISTING OF CPU, PRINTER, ACCESSORIES AND MONITOR)	SET	3	6		0
2.4	MAX OPERATOR WORK STATION (OWS) FOR LVS	SET	4	6		0
2.5	MAX LINK WORK STATION : (01 SET COMPRISES OF 1 NO. CPU, PRINTER, ACCESSORIES AND 01 NO. MONITOR) (1500X750X740)	SET	2	6		0
2.6	PRINTER OF VARIOUS TYPES. (COLOUR LASER A4, A3, B/W MONO LASER A4, COLOUR INKJET A4, DOT MATRIX)	NO	4	6		0
2.7	FURNITURE (CONSISTING OF 06 NOS PRINTER TABLES, 06 NOS COMPUTER TABLES & 12 NOS CHAIRS)	SET	1	6		0
2.8	STEAM LEAK DETECTION (STLD) SYSTEM PC & MONITOR	SET	2	6		0
2.9	NETWORK PANELS AND ENCLOSURES	NO	10	6		0
2.10	TSC STATION	NO	1	6		0
2.11	GRAPHICAL INTERFACE UNIT(GIU)	NO	6	6		0
2.12	AC DISTRIBUTION BOARD (Approx dimension - 16000 x 1700 x 2400)	NO	1	6		0
2.13	PROGRAMMABLE LOGIC CONTROLLER WITH DC BATTERY & BATTERY CHARGER	SET	1	6		0
3.0	FIELD RACKS AND ENCLOSURES					0
3.1	LOCAL INSTRUMENT ENCLSOURE (1450X2300X950)	NO	26	5		0
3.2	LOCAL INSTRUMENT RACK(1800X2150X650)	NO	7	5		0
3.3	LOCAL GAUGE BOARD (LGB) ASSEMBLY OF BFP WITH INSTRUMENTS (DD) (2000X300X1800)	NO	6	5		0
3.4	LOCAL GAUGE BOARD (LGB) ASSEMBLY OF BFP WITH INSTRUMENTS (DD) (2200X300X1800)	NO	6	5		0
3.5	LOCAL GAUGE BOARD (LGB) ASSEMBLY FOR CEP WITH INSTRUMENTS (DD) (2000X300X1800)	NO	1	5		0
3.6	LOCAL INSTRUMENT RACK (LIR) ASSEMBLY OF BFP FOR INSTRUMENTS (DD)(2000X400X1800)	NO	2	5		0

**VOLUME-III, REV-02
PRICE SCHEDULE,PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
3.7	LOCAL INSTRUMENT RACK (LIR) ASSEMBLY FOR CEP PUMPS WITH INSTRUMENTS (DD)(1300X900X2000)	NO	1	5		0
3.8	TURBINE INSTRUMENT RACKS(2750X1500X800)	NO	12	5		0
3.9	TURBINE INSTRUMENT RACKS(2300X750X800)	NO	12	5		0
3.10	SLOTTED CHANNEL RACK FOR TURBINE/GEN JB MOUNTING	NO	12	5		0
3.11	MINI LIR FOR PRESSURE/TEMP GAUGE FOR BOILER	NO	28	5		0
4.0	FIELD INSTRUMENTS & MACHINE MONITORING SYSTEM-LOOSE ITEMS					0
4.1	ELECTRONIC TRANSMITTERS (PR,DIFF. PR.,FLOW,LEVEL,POSITION,TEMP.)	NO	800	7		0
4.2	ASH LEVEL INDICATOR (HIGH & LOW) (900 L x 100 D x 100 H),15 Kg including PTFE cable, earthing wire, electronic unit, probe head assembly & GI flexible conduit.	NO	96	7		0
4.3	LOCAL GUN MAINT.-ENANCE SWITCH BOX	NO	12	7		0
4.4	PRESSURE SWITCH/DIFF. PRESSURE SWITCH	NO	40	7		0
4.5	LEVEL SWITCH	NO	50	7		0
4.6	TEMP. GAUGE	NO	150	7		0
4.7	PRESSURE GAUGE	NO	300	7		0
4.8	LEVEL GAUGE	NO	18	7		0
4.9	FLAME SCANNER HEAD ASSY.	NO	28	7		0
4.10	BHELSCAN-FLAME SCANNER AMPLIFIER	NO	7	7		0
4.11	DIFFERENTIAL PRESSURE SWITCH	NO	5	7		0
4.12	DIFFERENTIAL EXPANSION DETECTOR	NO	1	7		0
4.13	LEVEL INDICATOR	NO	6	7		0
4.14	LOAD TRANSDUCER	NO	3	7		0
4.15	LIMIT SWITCH	NO	100	7		0
4.16	SHAFT VIBRATION DETECTOR	NO	14	7		0
4.17	BEARING VIBRATION DETECTOR	NO	14	7		0
4.18	THERMOCOUPLE	NO	157	7		0
4.19	RESITENCE TEMPERATURE DETECTOR	NO	170	7		0
4.20	AXIAL SHIFT DETECTOR	NO	3	7		0
4.21	FLOW SWITCH/ FLOW METER	NO	40	7		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
4.22	SPEED DETECTOR	NO	4	7		0
4.23	LEVEL GAUGE FOR DEA, L-2000, 30ATG	NO	2	7		0
4.24	THERMOWELL	NO	50	7		0
4.25	O2 ANALYSER	SET	4	7		0
4.26	PH ANALYZER	NO	14	7		0
4.27	SO2 ANALYZER	NO	12	7		0
4.28	THERMOCOUPLE	NO	120	7		0
4.29	CONDENSING POT	NO	50	7		0
4.30	ROTAMETER/FLOW METER/FLOW INDICATOR	NO	60	7		0
4.31	LEVEL PROBE/PROXIMITOR PROBE/OVERALL EXPANSION PROBE	NO	12	7		0
4.32	ZERO SPEED SWITCH	NO	9	7		0
4.33	DENSITY METER	NO	7	7		0
4.34	ELECTRONIC CARD ASSEMBLY FOR SO2 ANALYSER	SET	2	7		0
4.35	TEMPERATURE SENSOR AND HEATER ASSEMBLY	NO	1	7		0
4.36	COMPLETE PROBE WITH SHEILD ASSEMBLY	SET	2	7		0
5.0	24V DC CHARGER & BATTERIES					0
5.1	24V DC CHARGER FOR SG & TG	NO	8	6		0
5.2	24 VDC BATTERY CHARGER - DCDB FOR SG MAIN	SET	4	6		0
5.3	24V DC CHARGER WITH INTEGRAL DCDB - FOPH	NO	2	6		0
5.4	24V DC CHARGER(INTEGRAL DCDB)-AUX BOILER	NO	2	6		0
5.5	24 VDC BATTERIES FOR SG-MAIN CHARGER	SET	2	6		0
5.6	24 VDC BATTERIES FOR FOPH-CHARGER	SET	2	6		0
5.7	24 VDC BATTERIES FOR TG	NO	2	6		0
5.8	24 VDC BATTERIES FOR AUX BOILER CHAGER	NO	2	6		0
6.0	JUNCTION BOX					0
6.1	6-WAY MINIATURE JUNCTION BOX	NO	28	3		0
6.2	12-WAY JUNCTION BOX	NO	22	3		0
6.3	18-WAY JUNCTION BOX	NO	15	3		0
6.4	48-WAY JUNCTION BOX	NO	2	3		0
6.5	FRP JUNCTION BOX-72 WAY	NO	31	3		0
6.6	FRP JUNCTION BOX-48 WAY	NO	87	3		0
6.7	FRP JUNCTION BOX-24 WAY	NO	105	3		0
6.8	FRP JUNCTION BOX	NO	75	3		0
6.9	STLD FRP JUNCTION BOX	SET	7	3		0

**VOLUME-III, REV-02
PRICE SCHEDULE,PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
6.10	JB FOR SHEAR PIN FAIL.INDN.	NO	4	3		0
6.11	SUV 12 JUNCTION BOX FOR TURBINE/GENERATOR	NO	22	3		0
6.12	TTX-JB FOR TURBINE/GENERATOR	NO	27	3		0
6.13	MINI JUNCTION BOX FOR GENERATOR END-WINDING SENSOR CABLE	NO	2	3		0
7.0	IMPULSE PIPE					0
7.1	IMPULSE PIPE A106 GR C 1" NB UPTO SCH 80	MTR	200	4		0
7.2	IMPULSE PIPE A106 GR C 1/2" NB UPTO SCH 80	MTR	1100	4		0
7.3	IMPULSE PIPE A106 GR C 1/2" NB UPTO SCH 160	MTR	350	4		0
7.4	IMPULSE PIPE A335 P22 1/2" NB XXS	MTR	225	4		0
7.5	3/4" UPTO SCH 80 IMPULSE PIPE, MATL ASTM-A335	MTR	600	4		0
7.6	3/4" UPTO SCH 80 IMPULSE PIPE, MATL ASTM-A106	MTR	1500	4		0
7.7	CARBON STEEL TUBE 88.9X4-AA1041055021	MTR	20	4		0
7.8	SEAMLESS CS TUBE 13.5X2.6-HW1021098116	MTR	310	4		0
7.9	CARBONSTEEL TUBE D=33.7X3.38-HW1041046723	MTR	20	4		0
7.10	SEAMLESS CS TUBE 21.3X2.3-HW1021046898	MTR	1240	4		0
7.11	CARBON ST.TUBE CDS 26.9X2.6	MTR	35	4		0
7.12	SEAMLESS 21.3x2.77 HW1061028917	MTR	390	4		0
7.13	SEAMLESS ALLOY ST TUBE 13.5X2.6 HW1061028933	MTR	20	4		0
7.14	IMPULSE PIPE FOR PR. INSTRUMENTS CS 16 X2.6 (BFP -600MTR, CEP-165 MTR.)	MTR	1500	4		0
7.15	3/4"SCH 80 CS IMPULSE PIPE,	MTR	600	4		0
7.16	GI PIPE NB15 X 3.25 (IS 1239 GAL)	MTR	1600	4		0
7.17	GI PIPE NB25 X 3.25 (IS 1239 GAL)	MTR	1200	4		0
7.18	PNEUMATIC COPPER TUBES UP TO 1/4" OD	MTR	4000	4		0
7.19	S.S.PIPE .1/8"UPTO 1" OD	MTR	200	4		0
7.20	COPPER TUBES >1/4" MM & UPTO 12MM OD	MTR	1000	4		0
7.21	VALVES OF VARIOUS TYPES OF SIZE 1/4" TO 1/2" (SS/CS/MS/BRASS ETC).	NO	20	8		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
8.0	CABLE LAYING & TERMINATION TO THE RESEPECTIVE EQPT.					0
8.1	FLAME SCANNER CABLE	MTR	6400	2		0
8.2	2P- 8P X 0.5 SQMM O/A SH. INST. CABLE	MTR	68800	2		0
8.3	2P - 8P X 0.5 SQMM P/O SH. INST. CABLE	MTR	19200	2		0
8.4	12P X 0.5 SQMM O/A SH. INST. CABLE	MTR	8000	2		0
8.5	2C - 7C X 2.5 SQMM CONTROL CABLE	MTR	45100	2		0
8.6	10C X 2.5 SQMM CONTROL CABLE	MTR	500	2		0
8.7	16C X 2.5 SQMM CONTROL CABLE	MTR	8200	2		0
8.8	CBL 4C,1.5MM2,1100V,7/0.53,ABC,U/A	MTR	1000	2		0
8.9	GROUP CABLE 4X2X0.5 SQ MM	MTR	17000	2		0
8.10	GROUP CABLE 8X2X0.5 SQ MM	MTR	4700	2		0
8.11	GROUP CABLE 12X2X0.5 SQ MM	MTR	950	2		0
8.12	SPECIAL CABLE 5X1.5 SQ MM.	MTR	1000	2		0
8.13	CBL FEP INSULATED 2X2X0.5 SQ.MM TYPE-1	MTR	4000	2		0
8.14	CBL FEP INSULATED 2X4X0.5 SQ.MM TYPE-2	MTR	1000	2		0
8.15	CBL TH EXTN 2X2X0.5 SQ.MM (KX: NiCr-Ni)	MTR	2000	2		0
8.16	CBL TH EXTN 2X2X0.5 SQ.MM (TX: Cu-CuNi)	MTR	2200	2		0
8.17	19CX1.5SQ.MM.UNARMoured FRLS CONT CABLE	MTR	4500	2		0
8.18	2PX0.5SQMM INDIV.& COLL. SHIELDED CABLE	MTR	250	2		0
8.19	4PX0.5SQMM INDIV.& COLL. SHIELDED CABLE	MTR	1500	2		0
8.20	5CX2.5 SQ.MM COPPERCONTROL CABLE	MTR	2500	2		0
8.21	16 PAIR 0.5 SQ.MM SHIELDED CABLE	MTR	600	2		0
8.22	10 PAIR 0.6 SQ.MM.PTFE PROBE CABLE	MTR	90	2		0
8.23	SP.ARM. SHIELDED SIGNAL CABLE	MTR	30	2		0
8.24	T/C EXTENSION CABLE	MTR	500	2		0
8.25	CO-AXIAL CABLE B/W FIELD & CER	MTR	500	2		0
8.26	CO-AXIAL CABLE B/W CER & CR	MTR	300	2		0
8.27	CO-AXIAL CABLE B/W CR & LVS	MTR	50	2		0
8.28	FIBRE OPTIC CABLE(ONLY LAYING TERMINATION EXCLUDED)	MTR	4000	2		0
8.29	GENERATOR END-WINDING SENSOR CABLE	MTR	500	2		0
9.0	CABLE TRAY					0
9.1	CABLE TRAY 150 MM WIDTH	MTR	3200	1		0
9.2	CABLE TRAY 100 MM WIDTH	SET	1800	1		0
9.3	CABLE TRAY 50 MM WIDTH	SET	350	1		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
9.4	CABLE TRAYS & ACC.	SET	265	1		0
9.5	PERFORATED CABLE TRAYS 150 MM WIDTH	SET	280	1		0
10.0	OTHER MISC EQUIPMENTS					0
10.1	ERV CONTROLLER WITH SWITCH	NO	5	7		0
10.2	ASLD SENSOR ASSEMBLY	SET	20	7		0
10.3	CCTV CAMERA-FRONT WALL AND REAR WALL	NO	2	7		0
10.4	LOCAL PNEUMATIC CONTROLLER WITH MECHANICAL TRANSMITTER FOR SEAL AIR DYNAVANE.	NO	2	7		0
10.5	ELECTRO PNEUMATIC (E/P) CONVERTER	NO	50	7		0
10.6	AIR FILTER REGULATOR - 1/4 INCH	NO	50	7		0
10.7	PURGE METER FOR MILL	NO	20	7		0
10.8	AFR FOR SADC SYSTEM -1 INCH	NO	16	7		0
10.9	1/4" SIZE TEFLON HOSE LENG.	NO	128	7		0
10.10	1" SIZE TEFLON HOSE LENG.	NO	8	7		0
10.11	SUPPLY OF CRIMPING LUGS (UPTO 6SQMM) (LUMP SUM) (AS PER REQUIREMENT AT SITE TILL COMPLETION OF JOB)	NO	8000	11		0
10.12	START STOP PUSH BUTTON	NO	160	3		0
10.13	BURNER-OIL SKID COMMISSIONING WHICH INCLUDES DISMANTLING OF SOVs, RE-TUBING OF SOVs, SKID MOUNTED LIMIT SWITCHES AS REQUIRED	NO	12	7		0
10.14	ILLUMINATION FIXTURES AND ACCESSORIES	NO	1	7		0
10.15	RELAYS OF ALL TYPES	NO	2	7		0
10.16	ACOUSTIC PYROMETER SET OF TRANS-RECIEVER	NO	10	7		0
11.0	MTM T/C					0
11.1	MTM T/C 8MM OD & 14-32 M DUPLEX	NO	370	7		0
11.2	MTM T/C 9.5MM OD & 20-32 M DUPLEX	NO	20	7		0
11.3	MTM T/C 3MM OD & 22-30 M DUPLEX	NO	10	7		0
11.4	MTM T/C WITH INTEGRALLY MOUNTED TTs	NO	15	7		0
12.0	STRUCTURAL STEEL REQD. FOR FABRICATION AND ERECTION (MATERIALS E.G. GI/SS TEES, CROSS, SOCKET, NIPPLE, REDUCER, UNION ETC. ARE TO BE SUPPLIED BY THE BIDDER WITHIN HIS QUOTED RATE.)					0
12.1	FAB. & ERECTION OF AIR FILTER STATION FOR SADC POWER CYLINDER WITH VALVES AND AIR FILTER REGULATOR, AND FAB & ERECTION OF SADC AIR HEADER.	NO	9	5		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
12.2	FAB. & ERECTION OF DUST COLLECTOR / CATCH POT	NO	10	5		0
12.3	SUPPLY, FAB. & ERECTION OF STRUCTURAL STEEL (ANGLE, CHANNEL, FLAT, PLATE ETC.- SUPPLY INCLUDED)	MT	20	11		0
12.4	FABRICATION & ERECTION OF CANOPY (STRUCTURAL MATL. AND GI/SS SHEET WILL BE PROVIDED BY BHEL FREE OF COST)	MT	20	5		0
13.0	CALIBRATION/ COMISSIONING (Erection excluded)					0
13.1	SADC POWER CYLINDERS	NO	56	9		0
13.2	BURNER TILT POWER CYLINDER	NO	4	9		0
13.3	HEA POWER CYLINDER	NO	12	9		0
13.4	POWER CYLINDER FOR SCOOP	NO	5	9		0
13.5	GRAVIMETRIC FEEDER WITH LOCAL CONTROL PANEL WITH FEEDER CALIBRATION.	NO	6	9		0
13.6	POWER CYLINDER (ON-OFF TYPE)	NO	55	9		0
13.7	POWER CYLINDER (REGULATING TYPE)	NO	27	9		0
13.8	CONTROL VALVES (ON-OFF)	NO	23	8		0
13.9	OPEN/ CLOSE TYPE CONT VALVE (PNEUMATIC) FOR FUEL OIL STATION AT AB, CD & EF ELEVATION.	NO	36	8		0
13.10	PNEUMATIC CONTROL VALVE	NO	25	8		0
13.11	CONTROL VALVES (REGULATING)	NO	25	8		0
13.12	EXTRACTION NRV/SPRAY WATER CONTROL VALVE	NO	5	8		0
13.13	GLAND STEAM CONTROL VALVES.	NO	4	8		0
13.14	HPBP PR. & TEMP. CONTROL VALVE	NO	4	8		0
13.15	HPBP SPRAY BLOCK VALVE	NO	2	8		0
13.16	LP BYPASS SPRAY CONTROL VALVE WITH FEEDBACK TRANSMITTER	NO	2	8		0
13.17	GOVERNING SYSTEM CONTROL RACK (ERECTION IS EXCLUDED, RATE TO BE QUOTED ONLY FOR CALIBRATION AND COMMISSIONING OF INSTRUMENTS)	NO	1	9		0
13.18	LP BYPASS CONTROL RACK (ERECTION IS EXCLUDED, RATE TO BE QUOTED ONLY FOR CALIBRATION AND COMMISSIONING OF INSTRUMENTS)	NO	1	9		0
13.19	MOTORISED TEMPERATURE CONTROL VALVE WITH ACTUATOR NB250 VAR-02 FOR GENERATOR COLD GAS.	NO	1	8		0
13.20	VACUUM BREAKER VALVE WITH PNEUMATIC ACTUATOR.	NO	25	8		0
13.21	HYDROGEN GAS DYIER PANEL	NO	1	9		0
13.22	OIL PURIFICATION UNIT.	NO	1	9		0
13.23	MOTORISED THREE WAY TURBINE LUBE OIL TEMP CONTROL VALVE.	NO	1	8		0
13.24	PRESSURE LIMIT VALVE.	NO	1	8		0

**VOLUME-III, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
13.25	GENERATOR STROBOSCOPE	NO	1	9		0
13.26	LIMIT SWITCH	NO	4	9		0
13.27	POSITION TRANSMITTER	NO	20	9		0
13.28	LPBYPASS VLV COMMISSIONING WITH CONTROL JB ERECTION	NO	2	9		0
14.0	POWER CYLINDERS					0
14.1	POWER CYLINDER FOR HOT AIR DAMPER	NO	6	10		0
14.2	POWER CYLINDER FOR COLD AIR DAMPER	NO	6	10		0
14.3	POWER CYLINDER FOR ID FAN INLET DAMPER	NO	2	10		0
14.4	SEAL AIR FILTER POWER CYLINDER	NO	2	10		0
14.5	REMOVAL, CALIBRATION, RE-MOUNTING AND COMMISSIONING OF INSTRUMENTS FOR SKID. 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-TUBE/IMPULSE PIPE, IF ANY, CHANGING OF TERMINALS OF JB. IF ANY, IS ALSO INCLUDED.	NO	10	10		0
15.0	PG TEST ITEMS :					0
15.1	1/2" IMPULSE PIPE	MTR	800	12		0
15.2	COMPENSATING CABLE (2C, CORE SIZE UPTO 2.5 SQMM) LAYING & TERMINATION	MTR	1300	12		0
15.3	2C, CORE SIZE UPTO 2.5 SQMM CABLE LAYING & TERMINATION	MTR	3000	12		0
15.4	4C, CORE SIZE UPTO 2.5 SQMM CABLE LAYING & TERMINATION	MTR	3000	12		0
15.5	PRE-FAB CABLE FROM DATA LOGGER TO COMPUTER	MTR	50	12		0
15.6	JUNCTION BOX	NO	80	12		0
15.7	THERMOCOUPLE	NO	45	12		0
15.8	PR. / VACUUM / DP TRANSMITTERS	NO	70	12		0
15.9	DATA LOGGER	NO	1	12		0
15.10	MANOMETER	NO	10	12		0
15.11	THERMOWELL	NO	100	12		0

**VOLUME-III A, REV-02
PRICE SCHEDULE, PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
15.12	PRT (PT. RESISTANCE THERMOMETER)	NO	90	12		0
15.13	BAROMETER	NO	1	12		0
15.14	POWER METER / TRANSDUCER	NO	10	12		0
15.15	WELDED TYPE TEST TWs	NO	75	12		0
	TOTAL -- PART-B - C&I (IN RS) (TOTAL VALUE IN FIGURES)					0
	TOTAL VALUE IN WORDS (TO BE INDICATED HERE)					

VOLUME-III UNPRICED -PRICE SCHEDULE, REV-02	
JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM	
TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15	
PREAMBLE	
1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with Volume-IB, ID, IE , Volume – IF and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where in this document.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	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(except service tax), 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 complete tender document and this schedule.
5	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 .
6	Prior written approval of BHEL shall be sought by the contractor in case quantity variation of any item crosses +50% (plus fifty percent) limit during execution and approval to be obtained before execution of further quantity for this item.
7	In case Sealed /Paper Price Bids are opened for finalisation of the tender, for any Item Rate/BOQ based contract, possibility of variation of quantity/ addition/deletion of items can not be ruled out. Under such circumstances, after execution of work, if it is observed that standing as L-1 is changed based on actual quantity executed, the bidder shall give suitable rebate to maintain your standing as L-1. Since this aspect can be assessed at the end of execution, necessary adjustment will be effected at the end of execution in final bill. This condition shall not be applicable where the tender is finalised through Reverse Auction.
8	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
9	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same. However, if separate rate for such item is available in the rate schedule, the same shall be considered.
10	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 language.
11	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.

VOLUME-III UNPRICED -PRICE SCHEDULE, REV-02	
JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM	
TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15	
PREAMBLE	
12	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.
13	No splitting of the job is envisaged. Decision of BHEL in this regard shall be final and binding to the bidders.
14	Bidders are not allowed to alter the Price Schedule format including item description, quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them. BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/ altered by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection.
15	Bidders to note that for Civil &/Structural packages, against a particular item against a ST No. appearing in more than one schedule of the BOQ, same rate must be quoted in all schedules for that particular items with same descriptions. If by error, different rates are quoted in different schedules for same ST No. (i.e. item with same description), then the higher of the rates shall be considered for evaluation but awarding shall be done with the lower rate, if the bidder becomes L-1."
16	For Lumpsum Service Contract : The items/components indicated in the tender is indicative and may vary to any extent. No compensation shall be payable in case of any variation in the items/components listed in the bill of quantities if the executed weight remains within the variation limit. However, in case of deletion of any item or addition of new items over and above the items listed or variation of existing quantity beyond variation limit specified, adjustment (i.e. Payment or recovery as the case may be) shall be done on pro-rata basis based on the Rate per MT worked out from the quoted lump-sum Price and the total weight of components listed /indicated in price schedule plus 15% weight variation limit.
17	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.
18	In case of tender for Civil and/or Structural works, if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/DSR schedule as prescribed in the tender/BOQ cum Rate Schedule.
19	No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor.
20	Size and weights of various items are mentioned in the attached BOQ cum rate/price schedule for reference purpose only & these shall not be taken into consideration for quoting/calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items.
21	Bidder's GRAND Total price will be shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight charges against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoted price against each item keeping the total quoted price unaltered.

**VOLUME-III
UNPRICED -PRICE SCHEDULE, REV-02**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL-E1702:15

SUMMARY

SL NO	ITEM/SCHEDULE	TOTAL AMOUNT (Rs)
1	RATE SCHEDULE, PART-A - ELECTRICAL HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL FOR BOILER & TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM	
2	RATE SCHEDULE, PART-B - C&I HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF CONTROL & INSTRUMENTATION OF BOILER & TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI, ASSAM	
	GRAND TOTAL (PART-A + PART-B) (TOTAL VALUE IN FIGURES)	
	TOTAL VALUE IN WORDS (TO BE INDICATED HERE)	

NOTE: BIDDER TO INDICATE ' QUOTED' AGAINST EACH ITEM OF UNPRICED PRICE SCHEDULE

VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
1.0	HVR TRANSFORMERS 70 KV, 1200mA (ERECTION EXCLUDED)				
1.1	TESTING & COMMISSIONING OF HV RECTIFIER TRANSFORMER FOR ESP INCLUDING DISCONNECTING SWITCH	24	NOS	8	
1.2	DRY OUT / OIL FILTRATION OF HV RECTIFIER TRANSFORMER FOR ESP	24	NOS	8	
2.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of AUXILIARY CONTROL PANEL (ACP) (DOUBLE FRONT, DRAW OUT TYPE) (7127mm L x 1300 mm W x 2400 mm H) 800 kg	4	NOS	5	
3.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of ELECTRONIC CONTROL PANEL (ECP) (600 L x 550 W x 2000 H),300 kg	24	NOS	5	
4.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of RAPPER CONTROL PANEL (1000 L x 500 W x 2050 H),200 kg	4	NOS	5	
5.0	Fixing of loose items, testing and commissioning (erection and alignment excluded) of STATCON PANEL (1000 L x 500 W x 2050 H), 200 kg	2	NOS	5	
6.0	ERECTION , TESTING & COMMISSIONING OF IOS PANEL (1000 L x 500 W x 2050 H), 200 kg	1	NO	5	
7.0	FIXING OF BAPCON CONTROLLER IN EC PANEL (280 L x 210 D x 210 H), 5kg	24	NOS	5	

VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
8.0	FIXING OF RAPCON CONTROLLER IN EC PANEL (280 L x 210 D x 210 H), 5kg	8	NOS	5	
9.0	FIXING OF STATCON CONTROLLER IN EC PANEL (280 L x 210 D x 210 H), 5kg	2	NOS	5	
11.0	TESTING , COMMISSIONING OF MOTORS (2 NOS.) & HEATERS(1 NO) FOR HOT AIR FLUSHING SYSTEM (HAFS)	4	NOS	8	
12.0	TESTING & COMMISSIONING OF HEATING ELEMENTS FOR HOPPER (PANEL TYPE)	48	NOS	8	
13.0	TESTING & COMMISSIONING OF THERMOSTAT FOR HOPPER (750 L x 100 D x 100 H)	48	NOS	8	
14.0	TESTING & COMMISSIONING OF HEATING ELEMENTS FOR SHAFT INSULATOR HEATERS	24	NOS	8	
15.0	TESTING & COMMISSIONING OF HEATING ELEMENTS FOR SUPPORT INSULATOR HEATER	96	NOS	8	
16.0	LOCAL START STOP PUSH BUTTON FOR RAPPING MOTOR (180 L x 100 D x 250 H), 5 kg	52	NOS	3	
17.0	ERECTION , TESTING & COMMISSIONING OF SOOT BLOWER MCC	1	NO	5	
18.0	VFD PANELS (Fixing of loose items, testing & commissioning excluding erection and alignment)				
18.1	LOAD COMMUTATED INVERTER (LCI) CHANNELS FOR ID FANS (3679X2420X1450/ 3000kg)	4	NO	9	
18.2	ADAPTER PANEL (577 x 1450 x 2330/ 200KG)	4	NO	9	
18.3	COMMON CONTROL PANEL (800 x 1450 x 2330/ 200KG)	2	NO	9	
18.4	VACCUM CIRCUIT BREAKER (2355 x 1640 x 2300/ 1350KG)	4	NO	9	

VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
19.0	FIXING OF LOOSE ITEMS, TESTING & COMMISSIONING OF O&M PANEL(600 x 600 x 1050/ 100 KG)	1	NO	9	
20.0	FIXING OF LOOSE ITEMS, TESTING & COMMISSIONING OF AIR CORE DC REACTOR WITH FLEXIBLE COUPLING (2250 x 1975 x 2350/ 1750KG)	4	SET	9	
21.0	MOTORS (TESTING, COMMISSIONING & DRYOUT)				
21.1	MOTOR FOR FD FAN 1125 KW, (2340 x 1950 x 1300), HT	2	NOS	8	
21.2	MOTOR FOR PA FAN 1750 KW, (2600 x 2050 x 1600), 8 HT	2	NOS	8	
21.3	MOTOR FOR MILL 425 KW, (2000 x 2000 x 1500), HT	6	NOS	8	
21.4	MOTOR FOR BFP 4600 KW, (4000 x 3000 x 3000), HT	3	NOS	8	
21.5	MOTOR FOR CEP 650 KW, (2000 x 1600 x 2500), HT	2	NOS	8	
21.6	MOTOR FOR ID FAN 4065 KW, (4800 x 3400 x 2900), HT	2	NOS	8	
21.7	HT MOTORS	20	NOS	8	
21.8	LT MOTORS	120	NOS	8	
22.0	JUNCTION BOX				
22.1	FIXING OF JUNCTION BOX FOR HOPPER HEATERS (600 L x 278 D x 515 H), 15 Kg	48	NOS	3	
22.2	FIXING OF JUNCTION BOX FOR SUPPORT INSULATOR HEATERS VAR.04 (450 L x 150 D x 300 H), 15Kg	8	NOS	3	
22.3	FIXING OF JUNCTION BOX FOR SHAFT INSULATOR HEATERS – VAR.03 (450 L x 150 D x 300 H), 15 Kg.	4	NOS	3	
22.4	FIXING OF JUNCTION BOX FOR START STOP PB (250 L x 150 D x 400 H), 12 Kg	8	NOS	3	

VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
22.5	FIXING OF JUNCTION BOX FOR ALI – HIGH & LOW (250 L x 150 D x 400 H), 12 Kg	8	NOS	3	
22.6	FIXING OF JUNCTION BOX FOR OPACITY MONITOR (250 L x 150 D x 400 H), 12 Kg	4	NOS	3	
22.7	FIXING OF JUNCTION BOX - GAL (POWER) VAR-01	4	NOS	3	
22.8	FIXING OF JUNCTION BOX - GAL (POWER) VAR-06	8	NOS	3	
22.9	JUNCTION BOX (MISCELLANEOUS PURPOSE)	6	NO.S	3	
23.0	LT POWER CABLES LAYING & TERMINATION TO THE RESPECTIVE EQPT.				
23.1	2C-120 SQ.MM AL	15000	MTR	2	
23.2	3C-120 SQ.MM AL CABLE	500	MTR	2	
23.3	3C-25 SQ.MM AL	17000	MTR	2	
23.4	2C-2.5 SQ.MM CU	1500	MTR	2	
23.5	3C-2.5 SQ.MM CU	10000	MTR	2	
23.6	3CX16 SQ.MM.UNARMoured FRLS POWER CABLE	1600	MTR	2	
23.7	CBL 2C , 6 MM2 , 1100V , STRAN , ABC,U/A	500	MTR	2	
23.8	CBL PVC FRLS,XLPE,1C,630MM2,AL,1.1KV U/A	650	MTR	2	
23.9	CBL PVC FRLS,PVC,1C,120MM2,AL,1.1KV U/A	8500	MTR	2	
23.10	CBL PVC FRLS,PVC,1C,35MM2,AL,1.1KV U/A	12000	MTR	2	

VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL

**JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING
 OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,**

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
24.0	LT CONTROL CABLES LAYING & TERMINATION TO THE RESPECTIVE EQPT.				
24.1	12C-1.5 MM ² CU	10000	MTR	2	
24.2	3C-1.5 SQ.MM CU	9000	MTR	2	
24.3	2C-1.5 MM ² CU	12000	MTR	2	
24.4	14C-1.5 MM ² CU	3000	MTR	2	
24.5	LT SCREENED COPPER UNARMoured CABLE, 4C-1.5 MM ²	17500	MTR	2	
26.0	STRUCTURAL ITEM				
26.1	ISA 50 X 50 X 6	350	MTR	4	
26.2	ISMC 75 X 40	1020	MTR	4	
26.3	ISMC 200	70	MTR	4	
26.4	GI FLAT 50X6	2000	MTR	4	
26.5	GI FLAT 30X5	1800	MTR	4	
26.6	GI WIRE 8 SWG	1000	KG	4	
26.7	CHEQUERED PLATE 5 MM	15	SQ.M	4	

VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
27.0	CABLE TRAYS & EARTHING MATERIALS				
27.1	HOT DIP GALVANISED CABLE TRAY COMPLETE WITH COUPLER PLATES, FASTENERS, CLAMPS AND FIXING HARDWARE (LADDER TYPE) (INCLUDING FABRICATION OF IRREGULAR TRAY & ACCESSORIES TO SUIT LAYOUT AS REQUIRED)				
27.1.1	600 MM WIDE LADDER TYPE	2000	MTR	1	
27.1.2	450 MM WIDE LADDER TYPE	3300	MTR	1	
27.1.3	300 MM WIDE LADDER TYPE	2500	MTR	1	
27.1.4	150 MM WIDE LADDER TYPE	4000	MTR	1	
27.2	HOT DIP GALVANISED CABLE TRAY COMPLETE WITH COUPLER PLATES, FASTENERS, CLAMPS AND FIXING HARDWARE (PERFORATED TYPE) (INCLUDING FABRICATION OF IRREGULAR TRAY & ACCESSORIES TO SUIT LAYOUT AS REQUIRED)				
27.2.1	600 MM WIDE PERFORATED TYPE	1500	MTR	1	
27.2.2	450 MM WIDE PERFORATED TYPE	2500	MTR	1	
27.2.3	300MM WIDE PERFORATED TYPE	1600	MTR	1	
27.2.4	150 MM WIDE PERFORATED TYPE	525	MTR	1	
27.3	COUPLER PLATES AND FASTENERS FOR TRAYS	22500	Nos	1	
27.4	CABLE TRAY SUPPORT MATERIAL (INCLUDING FABRICATION OF BASE FRAMES OF SWITCHGEARS, LCP, LPB, STARTERS ETC.)				
27.4.1	STRUCTURAL STEEL (ANGLE/CHANNEL/PLATES/CABLE TRAY SUPPORT SYSTEM -- BOLTABLE TYPE)	25	MT	1	
27.4.2	CONDUITS OR PIPES(DIA SIZE 1/2" TO 3")	100	Mtr	1	
27.4.3	EQUIPMENT EARTHING MATERIAL				

**VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
27.4.4	GL FLATS.OF VARIOUS SIZES	10	MT	4	
27.4.5	GI WIRE 8 SWG /14SWG/3.15MM WIRE DIA	6020	MTR	4	
28.0	SUPPLY OF TINNED COPPER/ALUMINIUM LUG (SOLDERLESS CRIMPING TYPE) (MAKE: DOWELLS/ UML ENGINEERS OR EQUIVALENT) SUPPLY TO BE MADE AS PER SITE REQUIREMENT AGAINST CLEARANCE FROM BHEL SITE.				
28.1	1.5 to 2.5 SQ MM (COPPER)	500	NO	7	
28.2	4 SQMM (COPPER)	100	NO	7	
28.3	6 SQMM (ALUMINIUM)	50	NO	7	
28.4	10 SQMM (ALUMINIUM)	40	NO	7	
28.5	16 SQMM (ALUMINIUM)	30	NO	7	
28.6	25 SQMM (ALUMINIUM)	20	NO	7	
28.7	50 SQMM (ALUMINIUM)	20	NO	7	
28.8	70 SQMM (ALUMINIUM)	20	NO	7	
28.9	120 SQMM (ALUMINIUM)	80	NO	7	
28.10	COMMISSIONING OF ELECTRIC HOIST	12	NOS	8	
28.11	COMMISSIONING OF MOTOR OPERATED VALVES	200	NOS	8	
28.12	COMMISSIONING OF LRSB AND WALL DESLAGGER	76	NOS	8	
28.13	ERECTION AND COMMISSIONING OF DC STARTER PANEL & RESISTANCE BOX (EOP , JOP , SOP)	3	NOS	5	
29.0	SUPPLY OF DOUBLE COMPRESSION HEAVY DUTY BRASS CABLE GLAND AS PER FOLLOWING (MAKE: COMMET INDUSTRIES/ SUNIL & CO/ ARUP ENGINEERING OR EQUIVALENT); SUPPLY TO BE MADE AS PER SITE REQUIREMENT AGAINST CLEARANCE FROM BHEL SITE.				

**VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL**

**JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING
OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,**

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
	ABOVE (MM) UPTO (MM) Approx. overall dia.				
29.1	-- 15	30	NO	7	
29.2	15 18	30	NO	7	
29.3	18 21	20	NO	7	
29.4	21 24	20	NO	7	
29.5	24 27	20	NO	7	
29.6	27 30	20	NO	7	
29.7	30 33	10	NO	7	
29.8	33 36	10	NO	7	
29.9	36 39	10	NO	7	
29.10	39 42	10	NO	7	
29.11	42 46	10	NO	7	
29.12	46 50	10	NO	7	
30.0	ONLY COMMISSIONING RATE TO BE QUOTED FOR FOLLOWING ITEMS.				
30.1	THERMOSTAT FOR HOPPER (350X100X100)	72	NOS	8	
30.2	THERMOSTAT FOR SUPPORT INSULATOR (35X100X100)	8	NOS	8	
30.3	GEARED MOTOR FOR COLLECTING ELECTRODE RAPPING 0.25 KW, 1.1RPM	8	NOS	8	
30.4	GEARED MOTOR FOR GD SCREEN RAPPING MOTOR 0.25KW, 1.1RPM	2	NOS	8	
30.5	GEARED MOTOR FOR EMITTING ELECTRODE RAPPING MOTOR 0.25KW, 2.5 RPM	8	NOS	8	
30.6	DISCONNECTING SWITCH (1200X1100X750)	8	NOS	8	

VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
31.0	ELECTRICAL/ELECTRONIC EARTH PIT				
31.1	INSTALLATION OF ELECTRICAL EARTH ELECTRODE INCLUDING CIVIL WORKS	10	NOS	4	
31.2	INSTALLATION OF ELECTRONIC EARTH ELECTRODE INCLUDING CIVIL WORKS	10	NOS	4	
32.0	ERECTION, TESTING & COMMISSIONING OF ONAN TYPE TRANSFORMER FOR VFD SYSTEM(2725X3700X3000/ 9600 KG)	4	NOS	10	
33.0	FIXING OF INTERLOCKS FOR ECP (ESP)	24	NOS	6	
34.0	OPACITY MONITOR (OPM)	4	NOS	6	
35.0	DATA LOGGER PC WITH COLOUR MONITOR (1220 L x 762 D)	1	NO	6	
36.0	PRINTER (INKJET) (762 L x 610 W)	1	NO	6	
37.0	ERECTION, TESTING & COMMISSIONING OF DIGITAL AVR PANEL(REG 1 & 2 THY-1 & FS-1) - 4 PANELS(4053x24155x800)	1	SET	5	
38.0	Testing & commissioning of the following:				
38.1	HP dozing/ phospahate dozing skid (4 motors)	1	NOS	8	
38.2	LP dozing/ hydrazine dozing skid (3 motors)	1	NOS	8	
38.3	LP dozing/ ammonia dozing skid (3 motors)	1	NOS	8	
38.4	Hydrogen dryer (1 x fan + 1 x compressor)	2	NOS	8	
38.5	NaOH SKID (1 motor)	1	NOS	8	
38.6	OIL CENTRIFUSE SKID (1 motor)	1	NOS	8	
39.0	MINOR CIVIL WORK				
39.1	CHIPPING / BREAKING OF BRICK WALL AND CONCRETE FLOOR/WALL [INCLUDING FINISHING]	20	Cu. M	9	

**VOLUME-III, REV-02
UNPRICED PRICE SCHEDULE, PART-A - ELECTRICAL**

**JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING
OVER OF ELECTRICAL & C&I FOR BOILER, ESP, TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP, SALAKATI,**

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-A)

SL NO	EQUIPMENT DESCRIPTION	TOTAL QTY (A)	UNIT	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)
39.2	SUPPLY & INSTALLATION OF HEAVY DUTY GALVANISED FRICTION ANCHOR FASTNERS OF HILTI / BOSCH OR ANY OTHER APPROVED MAKE OF DIA 16 MM AND 100 MM LENGTH WITH SUPPLY OF ALL HARDWARES AS REQUIRED.	40	NOS	9	
39.3	EXCAVATION WITH LIFT UP TO 0.5 METERS INCLUDING DRAINING AND PUMPING OUT WATER TO MAINTAIN REASONABLY DRY WORKING CONDITION FOR ALL ACTIVITIES, INCLUDING BACKFILLING & COMPACTION OF EXCAVATED MATERIAL AFTER COMPLETION OF THE ACTIVITIES ETC. ALL COMPLETE AS PER DRAWINGS AND/OR INSTRUCTIONS OF THE ENGINEER.	20	Cu. M	9	
TOTAL -- PART-A - ELECTRICAL (IN RS)					
(TOTAL VALUE IN FIGURES)					
TOTAL VALUE IN WORDS (TO BE INDICATED HERE)					
NOTE : BIDDER TO INDICATE "QUOTED" AGAINST EACH ITEM OF UNPRICED PRICE SCHEDULE					

SIONING AND HANDING ASSAM

TOTAL AMOUNT (Rs)
C=(AXB)

SIONING AND HANDING
ASSAM

**TOTAL AMOUNT
(Rs)**

C=(AXB)

SIONING AND HANDING
ASSAM

**TOTAL AMOUNT
(Rs)**

C=(AXB)

IONING AND HANDING
ASSAM

**TOTAL AMOUNT
(Rs)**

C=(AXB)

SIONING AND HANDING
ASSAM

**TOTAL AMOUNT
(Rs)**

C=(AXB)

SIONING AND HANDING
ASSAM

TOTAL AMOUNT
(Rs)

$C=(AXB)$

VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
1.0	PANELS & CUBICLES					
1.1	DCS PANELS					
1.1.1	SUITE OF 1 PANEL (750X750X2415)	NO	1	6		
1.1.2	SUITE OF 2 PANEL (750X750X2415)	NO	10	6		
1.1.3	SUITE OF 3 PANEL (750X750X2415)	NO	13	6		
1.1.4	SUITE OF 4 PANEL (750X750X2415)	NO	2	6		
1.1.5	SUITE OF 5 PANEL (750X750X2415)	NO	1	6		
1.1.6	SUITE OF 9 PANEL (750X750X2415)	NO	1	6		
1.2	GAS ANALYSER CABINET (1000X800X2200)	NO	1	6		
1.3	GENERATOR INSTRUMENTATION CABINET (1000X800X2200)	NO	1	6		
1.4	GRAVIMETRIC FEEDER REMOTE POWER CABINET(1200X2315X600)	NO	6	6		
1.5	DC SCANNER AIR FAN STARTER(900X1120X375)	NO	1	6		
1.6	FTP LOCAL STARTER (600X600X300)	NO	2	6		
1.7	EWLI LOCAL PANEL(600X600X350)	NO	4	6		
1.8	EWLI REMOTE DISPLAY UNIT(99X234X91)	NO	4	6		
1.9	ERV LOCAL CONTROLLER BOX(400X350X270)	NO	4	6		
1.10	STEAM LEAK DETECTION (STLD) SYSTEM PANEL(800X2315X800)	NO	2	6		
1.11	ELEVATOR CONTROL PANEL (1200X2400X500)	NO	1	6		
1.12	FURNACE FLAME VIEWING SYSTEM - REMOTE PANEL(800X2100X800)	NO	2	6		
1.13	FURNACE FLAME VIEWING SYSTEM - LOCAL PANEL(800X2100X800)	NO	2	6		
1.14	ROTOR STOPPAGE ALARM BOX	NO	3	6		
1.15	TURBINE SUPERVISORY SYSTEM CONSISTING OF SERVER ,MONITOR,PRINTER AND ACCESSORIES	SET	2	6		
1.16	GENERATOR STATOR WATER PANEL, SIGNALING PANEL & SEAL OIL PANEL (Size approx - 1400X2365X800)	SET	1	6		
1.17	GENERATOR END-WINDING VIBRATION PANEL	NO	1	6		
1.18	ACOUSTIC PYROMETER PANEL	NO	1	6		

VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
2.0	HMI SYSTEM & OTHERS					
2.1	MAX ENGINEER STATIONS (EWS): (1 SET COMPRISES OF 1 NO. CPU, KEYBOARD,PRINTER, ACCESSORIES AND 1 NO. MONITOR) (1500X750X740)	SET	3	6		
2.2	MAXSTORIAN STATIONS (EWS): (1 SET COMPRISES OF 2 NO. CPU,KEYBOARD PRINTER, ACCESSORIES AND 1 NO. MONITOR) (1500X750X740)	SET	2	6		
2.3	MAX OPERATOR WORK STATION (OWS) :COMPUTER CONSISTING OF CPU, PRINTER, ACCESSORIES AND MONITOR)	SET	3	6		
2.4	MAX OPERATOR WORK STATION (OWS) FOR LVS	SET	4	6		
2.5	MAX LINK WORK STATION : (01 SET COMPRISES OF 1 NO. CPU, PRINTER, ACCESSORIES AND 01 NO. MONITOR) (1500X750X740)	SET	2	6		
2.6	PRINTER OF VARIOUS TYPES. (COLOUR LASER A4, A3, B/W MONO LASER A4, COLOUR INKJET A4, DOT MATRIX)	NO	4	6		
2.7	FURNITURE (CONSISTING OF 06 NOS PRINTER TABLES, 06 NOS COMPUTER TABLES & 12 NOS CHAIRS)	SET	1	6		
2.8	STEAM LEAK DETECTION (STLD) SYSTEM PC & MONITOR	SET	2	6		
2.9	NETWORK PANELS AND ENCLOSURES	NO	10	6		
2.10	TSC STATION	NO	1	6		
2.11	GRAPHICAL INTERFACE UNIT(GIU)	NO	6	6		
2.12	AC DISTRIBUTION BOARD (Approx dimension - 16000 x 1700 x 2400)	NO	1	6		
2.13	PROGRAMMABLE LOGIC CONTROLLER WITH DC BATTERY & BATTERY CHARGER	SET	1	6		
3.0	FIELD RACKS AND ENCLOSURES					
3.1	LOCAL INSTRUMENT ENCLSOURE (1450X2300X950)	NO	26	5		
3.2	LOCAL INSTRUMENT RACK(1800X2150X650)	NO	7	5		
3.3	LOCAL GAUGE BOARD (LGB) ASSEMBLY OF BFP WITH INSTRUMENTS (DD) (2000X300X1800)	NO	6	5		
3.4	LOCAL GAUGE BOARD (LGB) ASSEMBLY OF BFP WITH INSTRUMENTS (DD) (2200X300X1800)	NO	6	5		
3.5	LOCAL GAUGE BOARD (LGB) ASSEMBLY FOR CEP WITH INSTRUMENTS (DD) (2000X300X1800)	NO	1	5		
3.6	LOCAL INSTRUMENT RACK (LIR) ASSEMBLY OF BFP FOR INSTRUMENTS (DD)(2000X400X1800)	NO	2	5		

VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
3.7	LOCAL INSTRUMENT RACK (LIR) ASSEMBLY FOR CEP PUMPS WITH INSTRUMENTS (DD)(1300X900X2000)	NO	1	5		
3.8	TURBINE INSTRUMENT RACKS(2750X1500X800)	NO	12	5		
3.9	TURBINE INSTRUMENT RACKS(2300X750X800)	NO	12	5		
3.10	SLOTTED CHANNEL RACK FOR TURBINE/GEN JB MOUNTING	NO	12	5		
3.11	MINI LIR FOR PRESSURE/TEMP GAUGE FOR BOILER	NO	28	5		
4.0	FIELD INSTRUMENTS & MACHINE MONITORING SYSTEM-LOOSE ITEMS					
4.1	ELECTRONIC TRANSMITTERS (PR,DIFF. PR.,FLOW,LEVEL,POSITION,TEMP.)	NO	800	7		
4.2	ASH LEVEL INDICATOR (HIGH & LOW) (900 L x 100 D x 100 H),15 Kg including PTFE cable, earthing wire, electronic unit, probe head assembly & GI flexible conduit.	NO	96	7		
4.3	LOCAL GUN MAINT.-ENANCE SWITCH BOX	NO	12	7		
4.4	PRESSURE SWITCH/DIFF. PRESSURE SWITCH	NO	40	7		
4.5	LEVEL SWITCH	NO	50	7		
4.6	TEMP. GAUGE	NO	150	7		
4.7	PRESSURE GAUGE	NO	300	7		
4.8	LEVEL GAUGE	NO	18	7		
4.9	FLAME SCANNER HEAD ASSY.	NO	28	7		
4.10	BHELSCAN-FLAME SCANNER AMPLIFIER	NO	7	7		
4.11	DIFFERENTIAL PRESSURE SWITCH	NO	5	7		
4.12	DIFFERENTIAL EXPANSION DETECTOR	NO	1	7		
4.13	LEVEL INDICATOR	NO	6	7		
4.14	LOAD TRANSDUCER	NO	3	7		
4.15	LIMIT SWITCH	NO	100	7		
4.16	SHAFT VIBRATION DETECTOR	NO	14	7		
4.17	BEARING VIBRATION DETECTOR	NO	14	7		
4.18	THERMOCOUPLE	NO	157	7		
4.19	RESITENCE TEMPERATURE DETECTOR	NO	170	7		
4.20	AXIAL SHIFT DETECTOR	NO	3	7		
4.21	FLOW SWITCH/ FLOW METER	NO	40	7		

VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
4.22	SPEED DETECTOR	NO	4	7		
4.23	LEVEL GAUGE FOR DEA, L-2000, 30ATG	NO	2	7		
4.24	THERMOWELL	NO	50	7		
4.25	O2 ANALYSER	SET	4	7		
4.26	PH ANALYZER	NO	14	7		
4.27	SO2 ANALYZER	NO	12	7		
4.28	THERMOCOUPLE	NO	120	7		
4.29	CONDENSING POT	NO	50	7		
4.30	ROTAMETER/FLOW METER/FLOW INDICATOR	NO	60	7		
4.31	LEVEL PROBE/PROXIMITOR PROBE/OVERALL EXPANSION PROBE	NO	12	7		
4.32	ZERO SPEED SWITCH	NO	9	7		
4.33	DENSITY METER	NO	7	7		
4.34	ELECTRONIC CARD ASSEMBLY FOR SO2 ANALYSER	SET	2	7		
4.35	TEMPERATURE SENSOR AND HEATER ASSEMBLY	NO	1	7		
4.36	COMPLETE PROBE WITH SHEILD ASSEMBLY	SET	2	7		
5.0	24V DC CHARGER & BATTERIES					
5.1	24V DC CHARGER FOR SG & TG	NO	8	6		
5.2	24 VDC BATTERY CHARGER - DCDB FOR SG MAIN	SET	4	6		
5.3	24V DC CHARGER WITH INTEGRAL DCDB - FOPH	NO	2	6		
5.4	24V DC CHARGER(INTEGRAL DCDB)-AUX BOILER	NO	2	6		
5.5	24 VDC BATTERIES FOR SG-MAIN CHARGER	SET	2	6		
5.6	24 VDC BATTERIES FOR FOPH-CHARGER	SET	2	6		
5.7	24 VDC BATTERIES FOR TG	NO	2	6		
5.8	24 VDC BATTERIES FOR AUX BOILER CHAGER	NO	2	6		
6.0	JUNCTION BOX					
6.1	6-WAY MINIATURE JUNCTION BOX	NO	28	3		
6.2	12-WAY JUNCTION BOX	NO	22	3		
6.3	18-WAY JUNCTION BOX	NO	15	3		
6.4	48-WAY JUNCTION BOX	NO	2	3		
6.5	FRP JUNCTION BOX-72 WAY	NO	31	3		
6.6	FRP JUNCTION BOX-48 WAY	NO	87	3		
6.7	FRP JUNCTION BOX-24 WAY	NO	105	3		
6.8	FRP JUNCTION BOX	NO	75	3		
6.9	STLD FRP JUNCTION BOX	SET	7	3		

VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
6.10	JB FOR SHEAR PIN FAIL.INDN.	NO	4	3		
6.11	SUV 12 JUNCTION BOX FOR TURBINE/GENERATOR	NO	22	3		
6.12	TTX-JB FOR TURBINE/GENERATOR	NO	27	3		
6.13	MINI JUNCTION BOX FOR GENERATOR END-WINDING SENSOR CABLE	NO	2	3		
7.0	IMPULSE PIPE					
7.1	IMPULSE PIPE A106 GR C 1" NB UPTO SCH 80	MTR	200	4		
7.2	IMPULSE PIPE A106 GR C 1/2" NB UPTO SCH 80	MTR	1100	4		
7.3	IMPULSE PIPE A106 GR C 1/2" NB UPTO SCH 160	MTR	350	4		
7.4	IMPULSE PIPE A335 P22 1/2" NB XXS	MTR	225	4		
7.5	3/4" UPTO SCH 80 IMPULSE PIPE, MATL ASTM-A335	MTR	600	4		
7.6	3/4" UPTO SCH 80 IMPULSE PIPE, MATL ASTM-A106	MTR	1500	4		
7.7	CARBON STEEL TUBE 88.9X4-AA1041055021	MTR	20	4		
7.8	SEAMLESS CS TUBE 13.5X2.6-HW1021098116	MTR	310	4		
7.9	CARBONSTEEL TUBE D=33.7X3.38-HW1041046723	MTR	20	4		
7.10	SEAMLESS CS TUBE 21.3X2.3-HW1021046898	MTR	1240	4		
7.11	CARBON ST.TUBE CDS 26.9X2.6	MTR	35	4		
7.12	SEAMLESS 21.3x2.77 HW1061028917	MTR	390	4		
7.13	SEAMLESS ALLOY ST TUBE 13.5X2.6 HW1061028933	MTR	20	4		
7.14	IMPULSE PIPE FOR PR. INSTRUMENTS CS 16 X2.6 (BFP -600MTR, CEP-165 MTR.)	MTR	1500	4		
7.15	3/4"SCH 80 CS IMPULSE PIPE,	MTR	600	4		
7.16	GI PIPE NB15 X 3.25 (IS 1239 GAL)	MTR	1600	4		
7.17	GI PIPE NB25 X 3.25 (IS 1239 GAL)	MTR	1200	4		
7.18	PNEUMATIC COPPER TUBES UP TO 1/4" OD	MTR	4000	4		
7.19	S.S.PIPE .1/8"UPTO 1" OD	MTR	200	4		
7.20	COPPER TUBES >1/4" MM & UPTO 12MM OD	MTR	1000	4		
7.21	VALVES OF VARIOUS TYPES OF SIZE 1/4" TO 1/2" (SS/CS/MS/BRASS ETC).	NO	20	8		

VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
8.0	CABLE LAYING & TERMINATION TO THE RESEPECTIVE EQPT.					
8.1	FLAME SCANNER CABLE	MTR	6400	2		
8.2	2P- 8P X 0.5 SQMM O/A SH. INST. CABLE	MTR	68800	2		
8.3	2P - 8P X 0.5 SQMM P/O SH. INST. CABLE	MTR	19200	2		
8.4	12P X 0.5 SQMM O/A SH. INST. CABLE	MTR	8000	2		
8.5	2C - 7C X 2.5 SQMM CONTROL CABLE	MTR	45100	2		
8.6	10C X 2.5 SQMM CONTROL CABLE	MTR	500	2		
8.7	16C X 2.5 SQMM CONTROL CABLE	MTR	8200	2		
8.8	CBL 4C,1.5MM2,1100V,7/0.53,ABC,U/A	MTR	1000	2		
8.9	GROUP CABLE 4X2X0.5 SQ MM	MTR	17000	2		
8.10	GROUP CABLE 8X2X0.5 SQ MM	MTR	4700	2		
8.11	GROUP CABLE 12X2X0.5 SQ MM	MTR	950	2		
8.12	SPECIAL CABLE 5X1.5 SQ MM.	MTR	1000	2		
8.13	CBL FEP INSULATED 2X2X0.5 SQ.MM TYPE-1	MTR	4000	2		
8.14	CBL FEP INSULATED 2X4X0.5 SQ.MM TYPE-2	MTR	1000	2		
8.15	CBL TH EXTN 2X2X0.5 SQ.MM (KX: NiCr-Ni)	MTR	2000	2		
8.16	CBL TH EXTN 2X2X0.5 SQ.MM (TX: Cu-CuNi)	MTR	2200	2		
8.17	19CX1.5SQ.MM.UNARMoured FRLS CONT CABLE	MTR	4500	2		
8.18	2PX0.5SQMM INDIV.& COLL. SHIELDED CABLE	MTR	250	2		
8.19	4PX0.5SQMM INDIV.& COLL. SHIELDED CABLE	MTR	1500	2		
8.20	5CX2.5 SQ.MM COPPERCONTROL CABLE	MTR	2500	2		
8.21	16 PAIR 0.5 SQ.MM SHIELDED CABLE	MTR	600	2		
8.22	10 PAIR 0.6 SQ.MM.PTFE PROBE CABLE	MTR	90	2		
8.23	SP.ARM. SHIELDED SIGNAL CABLE	MTR	30	2		
8.24	T/C EXTENSION CABLE	MTR	500	2		
8.25	CO-AXIAL CABLE B/W FIELD & CER	MTR	500	2		
8.26	CO-AXIAL CABLE B/W CER & CR	MTR	300	2		
8.27	CO-AXIAL CABLE B/W CR & LVS	MTR	50	2		
8.28	FIBRE OPTIC CABLE(ONLY LAYING TERMINATION EXCLUDED)	MTR	4000	2		
8.29	GENERATOR END-WINDING SENSOR CABLE	MTR	500	2		
9.0	CABLE TRAY					
9.1	CABLE TRAY 150 MM WIDTH	MTR	3200	1		
9.2	CABLE TRAY 100 MM WIDTH	SET	1800	1		
9.3	CABLE TRAY 50 MM WIDTH	SET	350	1		

VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
9.4	CABLE TRAYS & ACC.	SET	265	1		
9.5	PERFORATED CABLE TRAYS150 MM WIDTH	SET	280	1		
10.0	OTHER MISC EQUIPMENTS					
10.1	ERV CONTROLLER WITH SWITCH	NO	5	7		
10.2	ASLD SENSOR ASSEMBLY	SET	20	7		
10.3	CCTV CAMERA-FRONT WALL AND REAR WALL	NO	2	7		
10.4	LOCAL PNEUMATIC CONTROLLER WITH MECHANICAL TRANSMITTER FOR SEAL AIR DYNAVANE.	NO	2	7		
10.5	ELECTRO PNEUMATIC (E/P) CONVERTER	NO	50	7		
10.6	AIR FILTER REGULATOR - 1/4 INCH	NO	50	7		
10.7	PURGE METER FOR MILL	NO	20	7		
10.8	AFR FOR SADC SYSTEM -1 INCH	NO	16	7		
10.9	1/4"SIZE TEFLON HOSE LENG.	NO	128	7		
10.10	1"SIZE TEFLON HOSE LENG.	NO	8	7		
10.11	SUPPLY OF CRIMPING LUGS(UPTO 6SQMM)(LUMP SUM) (AS PER REQUIREMENT AT SITE TILL COMPLETION OF JOB)	NO	8000	11		
10.12	START STOP PUSH BUTTON	NO	160	3		
10.13	BURNER-OIL SKID COMMISSIONING WHICH INCLUDES DISMANTLING OF SOVs, RE-TUBING OF SOVs, SKID MOUNTED LIMIT SWITCHES AS REQUIRED	NO	12	7		
10.14	ILLUMINATION FIXTURES AND ACCESSORIES	NO	1	7		
10.15	RELAYS OF ALL TYPES	NO	2	7		
10.16	ACOUSTIC PYROMETER SET OF TRANS-RECIEVER	NO	10	7		
11.0	MTM T/C					
11.1	MTM T/C 8MM OD & 14-32 M DUPLEX	NO	370	7		
11.2	MTM T/C 9.5MM OD & 20-32 M DUPLEX	NO	20	7		
11.3	MTM T/C 3MM OD & 22-30 M DUPLEX	NO	10	7		
11.4	MTM T/C WITH INTEGRALLY MOUNTED TTs	NO	15	7		
12.0	STRUCTURAL STEEL REQD. FOR FABRICATION AND ERECTION (MATERIALS E.G. GI/SS TEES, CROSS, SOCKET, NIPPLE, REDUCER, UNION ETC. ARE TO BE SUPPLIED BY THE BIDDER WITHIN HIS QUOTED RATE.)					
12.1	FAB. & ERECTION OF AIR FILTER STATION FOR SADC POWER CYLINDER WITH VALVES AND AIR FILTER REGULATOR, AND FAB & ERECTION OF SADC AIR HEADER.	NO	9	5		

**VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
12.2	FAB. & ERECTION OF DUST COLLECTOR / CATCH POT	NO	10	5		
12.3	SUPPLY, FAB. & ERECTION OF STRUCTURAL STEEL (ANGLE, CHANNEL, FLAT, PLATE ETC.- SUPPLY INCLUDED)	MT	20	11		
12.4	FABRICATION & ERECTION OF CANOPY (STRUCTURAL MATL. AND GI/SS SHEET WILL BE PROVIDED BY BHEL FREE OF COST)	MT	20	5		
13.0	CALIBRATION/ COMISSIONING (Erection excluded)					
13.1	SADC POWER CYLINDERS	NO	56	9		
13.2	BURNER TILT POWER CYLINDER	NO	4	9		
13.3	HEA POWER CYLINDER	NO	12	9		
13.4	POWER CYLINDER FOR SCOOP	NO	5	9		
13.5	GRAVIMETRIC FEEDER WITH LOCAL CONTROL PANEL WITH FEEDER CALIBRATION.	NO	6	9		
13.6	POWER CYLINDER (ON-OFF TYPE)	NO	55	9		
13.7	POWER CYLINDER (REGULATING TYPE)	NO	27	9		
13.8	CONTROL VALVES (ON-OFF)	NO	23	8		
13.9	OPEN/ CLOSE TYPE CONT VALVE (PNEUMATIC) FOR FUEL OIL STATION AT AB, CD & EF ELEVATION.	NO	36	8		
13.10	PNEUMATIC CONTROL VALVE	NO	25	8		
13.11	CONTROL VALVES (REGULATING)	NO	25	8		
13.12	EXTRACTION NRV/SPRAY WATER CONTROL VALVE	NO	5	8		
13.13	GLAND STEAM CONTROL VALVES.	NO	4	8		
13.14	HPBP PR. & TEMP. CONTROL VALVE	NO	4	8		
13.15	HPBP SPRAY BLOCK VALVE	NO	2	8		
13.16	LP BYPASS SPRAY CONTROL VALVE WITH FEEDBACK TRANSMITTER	NO	2	8		
13.17	GOVERNING SYSTEM CONTROL RACK (ERECTION IS EXCLUDED, RATE TO BE QUOTED ONLY FOR CALIBRATION AND COMMISSIONING OF INSTRUMENTS)	NO	1	9		
13.18	LP BYPASS CONTROL RACK (ERECTION IS EXCLUDED, RATE TO BE QUOTED ONLY FOR CALIBRATION AND COMMISSIONING OF INSTRUMENTS)	NO	1	9		
13.19	MOTORISED TEMPERATURE CONTROL VALVE WITH ACTUATOR NB250 VAR-02 FOR GENERATOR COLD GAS.	NO	1	8		
13.20	VACUUM BREAKER VALVE WITH PNEUMATIC ACTUATOR.	NO	25	8		
13.21	HYDROGEN GAS DYIER PANEL	NO	1	9		
13.22	OIL PURIFICATION UNIT.	NO	1	9		
13.23	MOTORISED THREE WAY TURBINE LUBE OIL TEMP CONTROL VALVE.	NO	1	8		
13.24	PRESSURE LIMIT VALVE.	NO	1	8		

**VOLUME-III, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
13.25	GENERATOR STROBOSCOPE	NO	1	9		
13.26	LIMIT SWITCH	NO	4	9		
13.27	POSITION TRANSMITTER	NO	20	9		
13.28	LPBYPASS VLV COMMISSIONING WITH CONTROL JB ERECTION	NO	2	9		
14.0	POWER CYLINDERS					
14.1	POWER CYLINDER FOR HOT AIR DAMPER	NO	6	10		
14.2	POWER CYLINDER FOR COLD AIR DAMPER	NO	6	10		
14.3	POWER CYLINDER FOR ID FAN INLET DAMPER	NO	2	10		
14.4	SEAL AIR FILTER POWER CYLINDER	NO	2	10		
14.5	REMOVAL, CALIBRATION, RE-MOUNTING AND COMMISSIONING OF INSTRUMENTS FOR SKID. 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-TUBE/IMPULSE PIPE, IF ANY, CHANGING OF TERMINALS OF JB. IF ANY, IS ALSO INCLUDED.	NO	10	10		
15.0	PG TEST ITEMS :					
15.1	1/2" IMPULSE PIPE	MTR	800	12		
15.2	COMPENSATING CABLE (2C, CORE SIZE UPTO 2.5 SQMM) LAYING & TERMINATION	MTR	1300	12		
15.3	2C, CORE SIZE UPTO 2.5 SQMM CABLE LAYING & TERMINATION	MTR	3000	12		
15.4	4C, CORE SIZE UPTO 2.5 SQMM CABLE LAYING & TERMINATION	MTR	3000	12		
15.5	PRE-FAB CABLE FROM DATA LOGGER TO COMPUTER	MTR	50	12		
15.6	JUNCTION BOX	NO	80	12		
15.7	THERMOCOUPLE	NO	45	12		
15.8	PR. / VACUUM / DP TRANSMITTERS	NO	70	12		
15.9	DATA LOGGER	NO	1	12		
15.10	MANOMETER	NO	10	12		
15.11	THERMOWELL	NO	100	12		

**VOLUME-III A, REV-02
UNPRICED -PRICE SCHEDULE,PART-B - C&I**

JOB: HANDLING AT SITE/ STORAGE YARD, TRANSPORTATION TO SITE OF WORK, PRE-ASSEMBLY, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF ELECTRICAL & C&I FOR BOILER, ESP,TG SETS FOR UNIT-2 OF 3X250 MW BONGAIGAON TPP,SALAKATI,ASSAM

TENDER DOCUMENT NO - PSER:SCT:SAL:E1702:15

UNPRICED PRICE SCHEDULE (PART-B)

SL. NO.	DESCRIPTION	UNIT	TOTAL QTY (A)	BILLING SCHEDULE REF. NO	UNIT RATE (Rs) (B)	TOTAL AMOUNT (Rs) C=(AXB)
15.12	PRT (PT. RESISTANCE THERMOMETER)	NO	90	12		
15.13	BAROMETER	NO	1	12		
15.14	POWER METER / TRANSDUCER	NO	10	12		
15.15	WELDED TYPE TEST TWs	NO	75	12		
	TOTAL -- PART-B - C&I (IN RS) (TOTAL VALUE IN FIGURES)					
	TOTAL VALUE IN WORDS (TO BE INDICATED HERE)					

NOTE BIDDER TO INDICATE "QUOTED" AGAINST EACH ITEM OF UNPRICED PRICE SCHEDULE