



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:KLN-I2034:TCN-01

Date: 17-03-2020

Sub	Tender Change Notice (TCN) - 01.	
Job	ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.	
Ref	1.0	Tender no PSER:SCT:KLN-I2034:20
	2.0	BHEL's NIT, vide reference no. PSER:SCT:KLN-I2034:7929 Date: 06-03-2020.
	3.0	Other references, if any.

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

1. VOLUME-III-PRICE SCHEDULE, REV-01 is attached superseding VOLUME-III PRICE SCHEDULE, REV-00 issued earlier along with NIT. Bidder shall quote their offer accordingly.
2. VOLUME-IIIA (PSER PART)-PRICE SCHEDULE, REV-01 is attached superseding VOLUME-IIIA (PSER PART)-PRICE SCHEDULE, REV-00 issued earlier along with NIT. Bidder shall quote their offer accordingly.
3. VOLUME-IIIB (ISG PART)-PRICE SCHEDULE, REV-01 is attached superseding VOLUME-IIIB (ISG PART)-PRICE SCHEDULE, REV-00 issued earlier along with NIT. Bidder shall quote their offer accordingly.
4. Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
5. All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD.

Dy. Manager (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 : (033) 2339 8000

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 OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.	
Ref	1.0	Tender no PSER:SCT:KLN-I2034:20
	2.0	BHEL's NIT, vide reference no PSER:SCT:KLN-I2034:7929 Date: 06-03-2020.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:KLN-I2034:TCN-01 Date: 17-03-2020.
	4.0	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/uploaded offer/documents in accordance with tender instructions with acceptance of the terms & conditions of the tender by us and as per aforesaid references.

Thanking you,

Yours faithfully,

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

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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

फैक्स/Fax : (033) 23211960

फ़ोन/Phone : बोर्ड/EPABX : 033-2339 8000/ 2339 8226

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.

TENDER NO - PSER:SCT:KLN-I2034:20

PREAMBLE

SL NO	DESCRIPTION
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 plus minus fifteen percent ($\pm 15\%$) of the awarded price as per LOI (respective part).
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.

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.

TENDER NO - PSER:SCT:KLN-I2034:20

PREAMBLE

SL NO	DESCRIPTION
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.
12	The tenderer 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/alterd 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.

**VOLUME-III
PRICE SCHEDULE, REV-01**

JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.

TENDER NO - PSER:SCT:KLN-I2034:20

PREAMBLE

SL NO	DESCRIPTION
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 , the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/ Bangladesh Schedules 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 shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight chages against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoated price against each item keeping the total quoted price unaltered.

VOLUME-III PRICE SCHEDULE, REV-01			
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.			
TENDER NO - PSER:SCT:KLN-I2034:20			
SCHEDULE - 1 : TOTAL PRICE			
SL NO	DESCRIPTION	PRICE SCHEDULE REF	TOTAL PRICE (IN USD)
1.0	TOTAL PRICE FOR ERECTION, LAYING/ INSTALLATION, TESTING, COMMISSIONING, HANDING OVER, ETC OF C&I (CONTROL & INSTRUMENTATION) SYSTEMS OF BOILER & AUXILIARIES, TG & AUXILIARIES, STATION C&I,FGD SYSTEM, MISC SYSTEMS & EQUIPMENT, ETC OF 2X660 MW UNITS & COMMON SYSTEMS & CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AT 2X660 MW MAITREE STPP , BANGLADESH	SCH 2 - PRICE BREAK UP	<u>IN FIGURES:-</u> <u>IN WORDS:-</u>
NOTE			
1.0	Bidder shall quote total price for SCH-2- Part only at SI No. 1 above. All other amounts / rates of each item of works in respective schedules / parts will be derived based on allocated percentages. As such, any uncalled figure/ amount noted at any other place / schedule of Volume-III will not be reckoned & will stand null & void.		
2.0	Bidder to note that total price at SI No. 1 above shall be considered for evaluation & awarding. As such grand total price should be complete in all respect for the full scope defined and considering all terms and conditions.		
3.0	Bidder to note that percentage break-up of grand total price at SI No.1 above into 'Main Plant Area & BOP Area' & "CHP/AHP/Limestone & Gypsum handling Area' are frozen and indicated in SCH-2.		
4.0	Based on the itemwise percentage allocations, the amount for the individual items of the Bill of Quantity shall be arrived at. The rates of individual items shall be derived from the amount against each items and its quantity after rounding off to upto 2 decimal places. However, RA bill payment shall be done after rounding off the gross amount to two decimal points. Any adjustment, if required, due to such methodology, will be effected / adjusted in final bill.		
5.0	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.		
6.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.		
7.0	Bidder shall note that the LOI/order placed as per Price Schedule Vol-III A,R01 shall be executed and dealt by BHEL-PSER/Kolkata office, and the LOI/order placed as per Price Schedule Vol-III B,R01 shall be executed and dealt by BHEL-ISG/ Bangalore office. Bidder has to do the liason for respective orders accordingly.		

VOLUME-III PRICE SCHEDULE, REV-01		
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.		
TENDER NO - PSER:SCT:KLN-I2034:20		
SCHEDULE - 2 : BREAK UP OF TOTAL PRICE		
SL NO	DESCRIPTION	WEIGHTAGE
1.0	TOTAL PRICE FOR ERECTION, LAYING/ INSTALLATION, TESTING, COMMISSIONING, HANDING OVER, ETC OF C&I (CONTROL & INSTRUMENTATION) SYSTEMS OF BOILER & AUXILIARIES, TG & AUXILIARIES, STATION C&I,FGD SYSTEM, MISC SYSTEMS & EQUIPMENT, ETC OF 2X660 MW UNITS & COMMON SYSTEMS & CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AT 2X660 MW MAITREE STPP, BANGLADESH	
(a)	MAIN PLANT AREA & BOP AREA (EXCLUDING CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA)	0.88358316
(b)	CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM	0.11641684
2.0	TOTAL	1.00000000
NOTE:		
1.0	The price at Sl. No. 1.0.(a) above shall be equal to the price at Sl. No. 1.0 of SCH-1 of "VOLUME-IIIA (PSER PART) -PRICE SCHEDULE, REV-01".	
2.0	The price at Sl. No. 1.0.(b) above shall be equal to the price at Sl. No. 1.0 of SCH-1 of "VOLUME-IIIB (ISG PART) -PRICE SCHEDULE, REV-01".	

VOLUME-III(A (PSER PART) PRICE SCHEDULE, REV-01	
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.	
TENDER NO - PSER:SCT:KLN-I2034:20	
PREAMBLE	
SL NO	DESCRIPTION
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 encloaed 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 plus minus fifteen percent ($\pm 15\%$) of the awarded price as per LOI (respective part).
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.

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01	
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.	
TENDER NO - PSER:SCT:KLN-I2034:20	
PREAMBLE	
SL NO	DESCRIPTION
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.
12	The tenderer 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.

VOLUME-III(A (PSER PART) PRICE SCHEDULE, REV-01	
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.	
TENDER NO - PSER:SCT:KLN-I2034:20	
PREAMBLE	
SL NO	DESCRIPTION
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 , the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/ Bangladesh Schedules 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 shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight chages against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoated price against each item keeping the total quoted price unaltered.

VOLUME-IIIA (PSER PART) PRICE SCHEDULE, REV-01			
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.			
TENDER NO - PSER:SCT:KLN-I2034:20			
SCHEDULE - 1 : BREAK UP OF TOTAL PRICE			
SL NO	DESCRIPTION	PRICE SCHEDULE REF	WEIGHTAGE
1.0	TOTAL PRICE FOR ERECTION, LAYING/ INSTALLATION, TESTING, COMMISSIONING, HANDING OVER, ETC OF C&I (CONTROL & INSTRUMENTATION) SYSTEMS OF BOILER & AUXILIARIES, TG & AUXILIARIES, STATION C&I,FGD SYSTEM, MISC SYSTEMS & EQUIPMENT, ETC OF MAIN PLANT AREA AND BOP AREA (EXCLUDING CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA) OF 2X660 MW MAITREE STPP , BANGLADESH	SCH-2	0.88358316

SCHEDULE-I
VOLUME-IIIA (PSER PART)
PRICE SCHEDULE, REV-01
TENDER NO. PSER:SCT:KLN-I2034:20

SIGNATURE WITH SEAL
OF BIDDER

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01			
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.			
TENDER NO - PSER:SCT:KLN-I2034:20			
SCH-2			
SL NO	DESCRIPTION	PRICE SCHEDULE REF	WEIGHTAGE
1.0	SERVICE PART	SCH-3	0.88113527
2.0	SUPPLY PART	SCH-4	0.001711052
3.0	COMMISSIONING SUPPORT	SCH-5	0.00073737
	TOTAL		0.88358316
NOTE			
1	Bidder to note that SCH-3 covers service (laying/ installation/ fabrication/ alignment, testing, commissioning, etc) of respective items, unless specified otherwise in the description of items.		
2	Bidder to note that SCH-4 covers supply (Design/ manufacturing/ procurement/ fabrication, supply, etc) of respective items, unless specified otherwise in the description of items.		
3	Bidder to note that SCH-5 covers commissioning support for related areas beyond this tender specified scope.		
4	Unit rates of each item of works of respective schedules/ parts will be derived by dividing derived amount by corresponding quantities. In deriving the unit rates of each item in this manner, figures only upto 2 decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.		
5	Successful bidder shall draw a schedule of quantities of various items of work of SCH-4 and obtain BHEL's approval/ clearance in writing before procurement, supply, etc.		
6	Successful bidder shall obtain approval/ clearance of BHEL in writing for 'equivalent' make of any item, appearing in the schedules/ parts, before procurement & supply of items to site.		
7	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.		
8	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.		

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
1.0	CABLE TRAY (GI PERFORATED TYPE/ LADDER TYPE, COMPLETE WITH ALL FIXING ACCESSORIES AS APPLICABLE AS PER DRAWING, INCLUDING SITE MODIFICATIONS REQUIRED FOR ALL TYPES OF BEND/ TURN OR ANY PROFILE, AS REQUIRED, TO SUIT SITE LAYOUT)			
1.1	CABLE TRAY 50 MM (With/Without cover)	9500	MTR	0.00706371
1.2	CABLE TRAY 100MM (With/Without cover)	10725	MTR	0.00902121
1.3	CABLE TRAY 150 MM	8000	MTR	0.00724959
1.4	CABLE TRAY 300 MM	1000	MTR	0.00116644
1.5	CABLE DUCT SIZE UPTO 325	800	MTR	0.00093315
1.6	CABLE TRAY 450 MM & ABOVE	800	MTR	0.00103353
2.0	CABLING INCLUDING LAYING & TERMINATION (POWER/ CONTROL/ SIGNAL, ARMoured/ UN-ARMoured, INDIVIDUAL SHIELDED/ OVERALL SHIELDED/ UNSHIELDED, CU/ AL,FIBER OPTIC)			
2.1	1P-2P /2C/3C/4C CABLE,UPTO 2.5 SQMM	543714	MTR	0.04295448
2.2	4P/ 5C- 8C CABLE, CORE SIZE UPTO 2.5 SQMM	769710	MTR	0.07153955
2.3	2C- 7C CABLE, ABOVE 2.5 SQMM TO 6.0 SQMM	4100	MTR	0.00040012
2.4	10C - 16C/5P-8P CABLE,UPTO 2.5 SQMM	547930	MTR	0.05856552
2.5	19C x 1.5/19Cx2.5 SQMM CABLE	12000	MTR	0.00139415
2.6	2P/4P/8P- 0.5 SQMM PTFE CABLE	38000	MTR	0.00300208
2.7	12P/ 24C CABLE, UPTO 2.5 SQMM	187000	MTR	0.02433261
2.8	16P-24P CABLE, UPTO 2.5 SQMM	8000	MTR	0.00107814
2.9	Digital LHS Cable	60500	MTR	0.00421731
2.10	T/C COMP CABLE 2 PAIR,16 AWG KX/ RX/ SX TYPE/2P,0.5 SQMM T/C EXTENSION/COMP CABLE KX/ RX/ SX TYPE	36400	MTR	0.00304483
2.11	FIBER OPTIC CABLE-MONOMODE & MULTIMODE			
2.11.1	FIBER OPTIC CABLE-MONOMODE & MULTIMODE (ONLY LAYING EXCEPT TERMINATION)	213000	MTR	0.03761424
2.11.2	FIBER OPTIC CABLE TERMINATION CORE WISE	1900	NOS	0.00737274
2.12	4P UTP CABLE/ETHERNET CABLE	49000	MTR	0.00569279
2.13	FLAME SCANNER CABLE WITH DOUBLE/MULTIPLE SHIELD, CORE SIZE UPTO 2.5 SQMM	22000	MTR	0.002147
2.14	RG11 VIDEO CABLE/COAXIAL VIDEO CABLE/RG58 COAXIAL CABLE	15000	MTR	0.00174269
2.15	EPABX TELEPHONE CABLE 1P/2P/5P/10P INCLUDING LAYING THROUGH PVC CASING/CONDUIT/ FLEXIBLE TUBE with concealed wiring wherever required .	25000	MTR	0.00290448

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
2.16	EPABX CABLE-5P/10P/20P/50P/100P JELLY FILLED CABLE	35000	MTR	0.00406628
2.17	SINGLE CORE ELECTRONIC EARTHING CABLE	1000	MTR	0.00013477
3.0	JUNCTION BOX (ELECTRICAL/ FRP/ MS/ FIBRE/ GI/ COLD JUNCTION COMPENSATION BOX, ETC) (WITH OR WITHOUT CANOPY ERECTION)			
3.1	JUNCTION BOX - 12 WAY	62	NO	0.00048117
3.2	JUNCTION BOX - 24 WAY	296	NO	0.00268097
3.3	JUNCTION BOX - 36 WAY	7	NO	0.00006792
3.4	JUNCTION BOX - 48 WAY	226	NO	0.00263091
3.5	JUNCTION BOX - 64 WAY	140	NO	0.00190172
3.6	JUNCTION BOX - 72 WAY	44	NO	0.00068295
3.7	JUNCTION BOX FOR TEMP. TRANSMITTER	105	NO	0.00271644
3.8	JUNCTION BOX FOR TSI SYSTEM/VMS /TURBINE SPEED/TURBINE TSE	215	NO	0.00194733
3.9	SOLENOID VALVE ENCLOSURE BOX FOR RODM SYSTEM	33	NO	0.00085374
3.10	MANIATURE JUNCTION BOX -6 WAY	56	NO	0.0002173
3.11	LOCAL GUN MAINTAINANCE SWITCHBOX/ LOCAL PUSH BUTTON BOX/ SHEAR PIN FAILURE INDICATION BOX/ PROXIMETER HOUSING JB/EMERGENCY STOP PUSH BUTTONS	56	NO	0.00036226
3.12	INFO BOX /TELEPHONE ROSETTE BOX for EPABX/OFFICE LAN	1000	NO	0.00323443
3.13	MDF/SDF JUNCTION BOX	150	NO	0.00077585
3.14	WALL MOUNTED 37U/15U/12U RACK OR FOR UTP/OFC NETWORK INCLUDING ALL OTHERS NETWORKING ACCESSORIES LIKE SWITCH/LIU/MEDIA CONVERTER/POWER SUPPLY BOARD ETC.	100	NO	0.0019402
3.15	TELEPHONE SET	500	NO	0.00161722
3.16	Acoustic booth of EPABX	4	NO	0.00012936
3.17	INSTALLATION OF CCTV CAMERAS	250	NO	0.00161722
3.18	POWER DISTRIBUTION BOX FOR CCTV SYTEM	40	NO	0.00012938
3.19	Electromagnetic door locks	20	NO	0.00007761
3.20	Push button for release of individual door locks	20	NO	0.00007761
3.21	PROXIMITY CARD READER	20	NO	0.00006469
3.22	Access card controller	20	NO	0.00006469
3.23	Junction box for FPS system	30	NO	0.00023282
3.24	Exit Sign (Backlit)	420	NO	0.0005426
3.25	Local Control panel for Deluge Valve	239	NO	0.00463707
3.26	Warning sign	70	NO	0.00009043
3.27	Gas Release Panel	30	NO	0.0002911
3.28	LOOSE SUPPLIED SLOTTED ANGLE CHANNEL JB FRAME STAND OF TG (TO BE FABRICATED AT SITE).	22	NO	0.00021347
3.29	SENSOR ELECTRONICS WITH ENCLOSURE140MM(L)X100MM(W)X70MM(H)/INTERFACING BOX 140MM(L)X100MM(W)X70MM(H) FOR AIRPREHEATER LEAKAGE CONTROL SYSTEM	24	NO	0.00015525

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
4.0	IMPULSE PIPE/ CU TUBE/CONDUIT (INCLUDING ACCESSORIES AND FITTINGS LIKE TEE, VALVES, NIPPLES, MANIFOLDS, SYPHON, CONDENSATE POTS/GLYCERINE SEAL POT ETC.)			
4.1	AS/CS IMPULSE PIPE ASTM A106 GR C 1" /1.5 INCH NB UPTO SCH 160	1000	MTR	0.00268607
4.2	AS/CS IMPULSE PIPE A106 GR C UPTO3/4" NB UPTO SCH 160	44600	MTR	0.10093755
4.3	IMPULSE PIPE A335 P91/A106 1/2" NB SCH XXS	2000	MTR	0.00485165
4.4	IMPULSE PIPE A335 P22 1/2" NB UPTO SCH 160	5600	MTR	0.01267378
4.5	SS IMPULSE PIPE/SEAMLESS TUBE/SS PIPE A213 TP316H UPTO1" UPTOSCH 160	10400	MTR	0.02184544
4.6	CS TUBE 88.9X4	200	MTR	0.00058183
4.7	1/2" /3/4"/1"OD COPPER TUBE	2000	MTR	0.00258383
4.8	COPPER TUBE/SS TUBE (UPTO 12MM OD)	7400	MTR	0.00815022
4.9	CS/AS IMPULSE PIPE, 60.3X3.91	200	MTR	0.00049167
4.10	SS TUBE/ PIPE 12.7 x 2.1	5000	MTR	0.01294238
4.11	AS/CS /SS PIPE ABOVE 1.5" UPTO 2.5"	300	MTR	0.00087274
4.12	GI PIPE 15 to 20 NB/GI PIPE 1/2"NB to 3/4"	16000	MTR	0.01658112
4.13	GI PIPE 25 to 40 NB/ GI PIPE 1" NB TO 1.5"NB	500	MTR	0.00064596
4.14	GI/ PVC CONDUIT/CASING-CAPPING UPTO 1" (FLEXIBLE & RIGID)	32000	MTR	0.02379354
4.15	GI/ PVC CONDUIT/CASING-CAPPING ABOVE 1" (FLEXIBLE & RIGID)	16000	MTR	0.01449919
4.16	CPVC PIPES ASTM D1784 CPVC PIPE(INDUSTRIAL GRADE) - 1/2"NB SCH 80	4000	MTR	0.00336456
5.0	FABRICATION & ERECTION			
5.1	FAB. & ERECTION OF AIR HEADER FOR SADC POWER CYLINDER WITH 1/2" TO 2" GI PIPE, AND VALVES ETC. (I/L, O/L, DRAIN & VENT).	16	NO	0.00077612
5.2	ERECTION OF LIE/LIR FOR AIR FILTER STATION FOR SADC POWER CYLINDER WITH GI/SS PIPE/TUBE, AND VALVES AND AIR FILTER REGULATOR,PR SWITCH	12	NO	0.0006209
5.3	FAB. & ERECTION OF STRUCTURAL STEEL (ANGLE, CHANNEL, FLAT, PLATE ETC.)(STEEL - FREE SUPPLY BY BHEL)	80	MT	0.01552305
6.0	PANEL AND PLANT MONITORING SYSTEM			
6.1	FSSS PANEL, SADC & APRDS PANELS, SBC PANEL, HP BY-PASS PANEL, TSC PANEL, EHTC PANEL FOR MAIN TURBINE, LPBP & GSPC PANEL, TURBINE PROTECTION PANEL, ATT PANEL, ATRS PANEL, GAMP PANEL, EHTC FOR BOILER FEED TURBINE, ATRS FOR BOILER FEED TURBINE, LOAD SHEDDING RELAY AND SYN PANEL, POWER CONTROLLER PANNEL, TSI PANEL FOR MAIN TURBINE & TDBFP, FUNCTIONAL GROUP CONTROL PANEL FOR WATER TREATMENT PLANT CONTROL, VARIOUS AUX PANEL, NETWORK PANEL FOR DCS,HMI,PWR DISTBN ETC (SUITES OF SINGLE, DOUBLE, THREE, FOUR & FIVE PANELS)			
6.1.1	SUITE OF SINGLE PANEL WITH ACCESSORIES (MAX/NON MAX)	47	SET	0.00364779
6.1.2	SUITE OF TWO PANEL	16	SET	0.00186274
6.1.3	SUITE OF THREE PANEL	55	SET	0.00996052
6.1.4	SUITE OF FOUR PANEL	52	SET	0.01143527
6.1.5	SUITE OF FIVE PANEL	6	SET	0.00155231

VOLUME-III (PSER PART) PRICE SCHEDULE, REV-01				
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TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
6.1.7	RELAY BASED PLC PANEL FOR FIRE FIGHTING SYSTEM Approx. size :: in mm 2115 x 1600 x 600 (H x W X D)	1	NO	0.00007761
6.1.8	Diesel Engine cum battery charger panel	1	NO	0.00006468
6.1.9	Fire Alarm Panels (with Optical fibre card) - Approx. size :: in mm 1000 x 600 x 300 (H x W X D)	7	NO	0.00031694
6.1.10	Repeater Panels Approx. size :: in mm 300 x 500 x 100 (H x W X D)	2	NO	0.00005174
6.1.11	RIO PANEL FOR FIRE FIGHTING SYSTEM Approx. size :: in mm 1915 x 1600 x 600 (H x W X D)	1	NO	0.00006468
6.2	HMI			
6.2.1	WORKSTATION FOR OPERATOR/ EWS/OPC/SERVER/ STORIAN/ COMMON CONTROL /CCTV/PIDS INCLUDING MONITOR AND ALL ACCESSORIES	87	NO	0.00225076
6.2.2	COLOR /BLACK & WHITE LASER PRINTER/COPIER MACHINE A3 SIZE	4	NO	0.00009055
6.2.3	COLOR /BLACK & WHITE LASER PRINTER A4 SIZE	42	NO	0.00081488
6.2.4	PRINTER TABLE/COMPUTER TABLE/WRITING DESK WITH DRAWERS	128	NO	0.00248345
6.3	CHAIRS	129	NO	0.00066723
6.4	PADO			
6.4.1	PADO SERVER WITH MONITOR AND ALL ACCESSORIES	2	NOS	0.00005821
6.4.2	PADO PCs INCLUDING MONITOR AND ALL ACCESSORIES	5	NO	0.00012935
6.4.3	COLOR PRINTER FOR PADO	1	NOS	0.0000194
6.4.4	NETWORK ENCLOSURE, LAN SWITCH POWER SOCKET AND OTHER ACCESSORIES FOR PADO SYS.	1	SET	0.00002587
6.5	STATION LAN ITEMS - (COMMON FOR U#1 &2) INCLUDING ERECTION & COMMISSIONING OF LIU, MEDIA CONVERTER, NETWORK ENCLOSURE, POWER SOCKET	2	SET	0.000401
6.6	SIMULATOR			
6.6.1	SIMULATOR SERVER WITH MONITOR AND ALL ACCESSORIES & SOFTWARE	2	NOS	0.00005821
6.6.2	SIMULATOR OWS WITH MONITOR AND ALL ACCESSORIES & SOFTWARE	5	NO	0.00012935
6.6.3	COLOR PRINTER FOR SIMULATOR	1	NOS	0.0000194
6.6.4	NETWORK ENCLOSURE, LAN SWITCH POWER SOCKET AND OTHER ACCESSORIES FOR SIMULATOR SYS.	1	SET	0.00002587
6.6.5	70"LVS SYSTEM - 1 SET CONSISTS OF 5 NO. OF SCREEN, MIRROR ASSEMBLY, BASE FRAME , MATRIX SWITCH , CABLES & ACCESSORIES AND 1 NO. OF CONTROLLER	1	SET	0.00038807

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TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
6.7	GRAVIMETRIC FEEDER REMOTE CONTROL PANEL INCLUDING LOCAL PANNEL COMMISSIONING	12	NO	0.00100898
6.8	BHELSONIC TUBE STEAM LEAK DETECTION (PANEL ONLY)	2	NO	0.00012936
6.9	MONITOR FOR BHELSONIC TUBE LEAK DETECTION SYSTEM WITH CPU & DISPALY(19")	2	NO	0.00002588
6.10	ERV CONTROL STATION FOR SH/RH (INCLUDING CR DISPLAY UNIT) INCLUDING LIMIT SWITCH OF ERV SETTING.	8	NO	0.00025872
6.11	MOISTURE MEASURING SYSTEM INCLUDING LOCAL CABINET, SENSOR, DISPLAY UNIT AND CABLE	2	SET	0.00010348
6.12	H2 GAS ANALYSER CABINET INCLUDING MOUNTING OF ANALYSER, CYLINDERS AND ACCESSORIES	4	NO	0.00025872
6.13	GENERATOR END WINDING VIBRATION MONITORING EQUIPMENT FOR TURBOGENERATOR WITH CABLE, PANEL& FIELD AMPIIFIER, JBS.	2	SET	0.00025872
6.14	TSI/VIBRATION MONITORING SYSTEM (VMS)			
6.14.1	VMS /TSI PANEL	31	NO	0.00200506
6.14.2	COMPUTER SERVER FOR VMS	2	NO	0.00005821
6.15	BUILDING INFORMATION MANAGEMENT SYSTEM CONSISTING OF PLC PANEL,COMPUTER AND SENSOR	1	SET	0.0001617
6.16	ERECTION & COMMISSIONING OF PATROL GUARD MONITORING SYSTEM (System consist of PC, monitor, mouse, keyboard with all accessories,Card Readers with rechargeable battery & charger , Data Collection and transfer unit)	1	SET	0.00003881
6.17	ERECTION & COMMISSIONING OF ACCESS CONTROL SYSTEM (Consist of 1 nos Server station, 2 nos work station, monitor, mouse, keyboard with all accessories,Card Readers ,ID card printer with web camera , charger , Network Switches and other accessories)	1	SET	0.00007115
6.18	GENERATOR INSTRUMENTATION CABINET	2	NO	0.00012936
6.19	DRAWOUT DESK (975X1050X750)(substitute arrangement of UCP, mounted with control desk)	2	NO	0.00012936
6.20	HART MANAGEMENT SYSTEM			
6.20.1	CONTROL PANEL WITH ALL ASSOCIATED HARDWARE(DIM: 2067mmX800mmX800mm)	8	No	0.00051744
6.20.2	DESKTOP PC WITH 24" MONITOR	2	NO	0.00005174

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SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
6.20.3	A4 COLOR LASER PRINTER	2	NO	0.0000388
6.21	AIRPREHEATER A & B LEAKAGE CONTROL SYSTEM			
6.21.1	AIRPREHEATER A & B LEAKAGE CONTROL SYSTEM SECTOR PLATE DRIVE DCS PANEL(750(L)X750(W)X2067(H))	2	NO	0.00015522
6.21.2	AIRPREHEATER A & B LEAKAGE CONTROL SYSTEM DRIVE CONTROL PANEL(680(L)X400(W)X1053(H))	12	NO	0.0006209
6.21.3	AIRPREHEATER A & B LEAKAGE CONTROL SYSTEM CONTOLLER PANEL(370(L)X210(W)X520(H))	12	NO	0.00031045
6.22	PULVERISER DYNAMIC CLASSIFIER VFD CABINET (1300X1900X600) WITH ALL ACCESSORIES	12	NO	0.00093135
7.0	OTHER PANEL/ RACK			
7.1	SWAS WET RACK /PANEL	2	NO	0.00064678
7.2	SWAS DRY PANEL	2	NO	0.00051744
7.3	SWAS CHILLER WITH TANK	2	NO	0.00045276
7.4	SWAS RACK			
7.4.1	PRIMARY RACK	4	NO	0.00038808
7.4.2	SELF STANDING RACK	8	NO	0.00031047
7.4.3	SELF STANDING RACK FOR RODM	30	NO	0.00116426
7.5	LOCAL INSTRUMENT ENCLOSURES / RACKS (LIE / LIR)			
7.5.1	LIE TYPE A/LIE TYPE B/LIE TYPE C/LIR TYPE A/LIR TYPE B/LIR TYPE C/LIR TYPE D/LOCAL GAUGE BOARD/TURBINE INSTRUMENT RACKS/PW INSTRUMENT RACKS	337	NO	0.01852694
7.5.2	Enclosure -Temp. Transmitter Junction Box - Type A/B/C	270	NO	0.00698512
7.6	FURNACE CCTV LOCAL CONTROL PANEL including TANK ENCLOSURE.	4	NO	0.00012936
7.7	CCTV REMOTE RETRACT ACTUATOR/FURNACE CCTV MONITOR RETRACT CONTROL UNIT/CAMERA UNIT	4	NO	0.00012936
7.8	FURNACE CCTV MONITOR (19" MONITOR) & CCTV MULTIPLEXER.	4	NO	0.00007761
7.9	FURNACE FLAME VIEWING SYSTEM-REMOTE PANEL (CER) WITH ZOOM CONTROL BOX,500 KG	4	NO	0.00020697
7.10	MASTER SLAVE CLOCK SYSTEM CONSISTING OF A PANEL, ANTENNA AND APPROX 30NOS OF SLAVE CLOCKS TO BE FIXED AT DIFFERENT LOCATIONS WITHIN THE PLANT PREMISES	1	SET	0.00050449
7.11	ACOUSTIC PYROMETER CONSISTING OF APPROX 16 NUMBERS OF SENSOR ,PRE AMP JB, SOLENOID VLV,PRES FAB CABLE, SINGAL PROCESSING UNIT,CPU CABINET WITH ACCESSORIES	2	SET	0.0003234

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SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
7.12	MODULAR DESK OF HMI CONSISTING VARIOUS SECTION READY TO ASSEMBLE TYPE			
7.12.1	MODULAR DESK FOR CONTROL DESK (2 SECTION)	13	SET	0.00126125
7.12.2	MODULAR DESK FOR HMI CONTROL DESK (5 SECTION)	2	SET	0.00025872
7.12.3	MODULAR DESK FOR HMI CONTROL DESK (8 SECTION)	2	SET	0.0003234
7.12.4	ALMIRAH/CABINETS/DATA HOLDER STORAGE/LOCKERS/MULTI-LAYER SLIDABLE BOAR/SIDE BOARD WITH SLIDING DOORS/WHITE BOARD	33	SET	0.00042695
7.13	STAND ALONE MINI UPS WITH BATTERY AND ACCESSORIES.	28	NO	0.00018113
7.14.1	70 "LVS SYSTEM - 1 SET CONSISTS OF 5 NO. OF SCREEN, MIRROR ASSEMBLY, BASE FRAME , CABLES & ACCESSORIES AND 1 NO. OF CONTROLLER	3	SET	0.00116422
7.14.2	70"LVS SYSTEM - 1 SET CONSISTS OF 2 NO. OF SCREEN, MIRROR ASSEMBLY, BASE FRAME , CABLES & ACCESSORIES	2	SET	0.00031046
7.15	FURNACE TEMPERATURE PROBE STARTER BOX	4	NO	0.00012936
7.16	FLAME SCANNER PROCESSING UNIT	14	NO	0.00009056
8.0	FIELD INSTRUMENT (ERECTION & COMMISSIONING RATE TO BE QUOTED WITHOUT CANOPY ERECTION)			
8.1	ELECTRO PNEUMATIC (E/P) CONVERTER / I/P TRANSDUCER	40	NO	0.00025875
8.2	THERMOCOUPLE (K TYPE/ T TYPE / R TYPE / J TYPE, WITH OR WITHOUT INTEGRATED METALLIC EXTENSION CABLE)/THERMOCOUPLE DRA 300/ TYPE A/TYPE-B/TYPE-C/TYPED /DUPLEX/CHROMEL ALUMEL THERMOCOUPLE/THERMOCOUPLE WITH/WITHOUT THERMOWELL	792	NO	0.00512334
8.3	MTM THERMOCOUPLE (EACH OF 8M, 10M,12M,14M,16M, 18M, 20M, 22M, 24M, 26M,28M, 30M-LENGTH) WITH/WITHOUT THERMOWELL	870	NO	0.01125583
8.4	RTD (PRT, CRT, MINIATURE RTD, ETC.)/DUPLEX RTD(2WIRE//3 WIRE/4WIRE) WITH/WITHOUT THERMOWELL.	913	NO	0.00590608
8.5	TSE SENSOR WITHOUT THERMOWELL.	12	NO	0.00007763
8.6	THERMOMETER /BIMETALLIC THERMOMETER/ GAS FILLED THERMOMETER/TEMPERATURE INDICATOR/CONTACT TEMP. INDICATOR/TEMP. GAUGE (CAPILARY AS WELL AS NON CAPILARY TYPE/BIMETALLIC/GAS FILLED)/ WITH/WITHOPUT THERMOWELL.	486	NO	0.00251374
8.7	CO-AXL DIAL THERMOMETER WITH/WITHOUT THERMOWELL	30	NO	0.00015517
8.8	TEMP SWITCH/ THERMOSTAT	5	NO	0.00002586

VOLUME-III (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
8.9	PRESSURE TRANSMITTER / DIFFERENTIAL PRESSURE TRANSMITTER/ ABSOLUTE PR. TRANSMITTER/VACUUM TRANSMITTERS / TEMPERATURE TRANSMITTER /VIBRATION TRANSMITTER/SPEED TRANSMITTER/SMART MILLI VOLT TRANSMITTER	4986	NO	0.03869526
8.10	FLOW INDICATOR/ FLOW SWITCH/ DENSITY INDICATOR	62	NO	0.00032068
8.11	PR SWITCH/ DP SWITCH/ VACUUM SWITCH	513	NO	0.00265339
8.12	PRESSURE GAUGE/DP GAUGE/VACUUM GAUGE/PRESSURE INDICATOR/DPI/FLOW GAUGE	1709	NO	0.00883947
8.13	LEVEL SWITCH (FLOAT TYPE/CAPACITANCE TYPE/ CONDUCTIVITY TYPE)/DIFFERENTIAL PRESSURE INDICATOR CUM SWITCH/LEVEL DETECTOR. INCLUDING ERECTION OF PRESSURE VESSEL AND CONTROL JB FOR CRH DRAIN POT	114	NO	0.0018431
8.14	CONDUCTIVITY CELL ALONG WITH TRANSMITTER FOR PW SYSTEM	6	NO	0.00009701
8.15	LEVEL SWITCH UNIT WITH AMPLIFIER (LLD)	47	NO	0.00066879
8.16	LEVEL GAUGE/LEVEL INDICATOR/WATER LEVEL GAUGE.	66	NO	0.00085389
8.17	LEVEL TRANSMITTERS (CAPACITANCE TYPE, TOP MOUNTED, DISPLACEMENT TYPE)/ LEVEL TRANSMITTERS (GUIDED WAVE RADAR TYPE/ULTRASONIC TYPE)	209	NO	0.003785
8.18	LIMIT SWITCH	130	NO	0.00021024
8.19	SPEED SWITCH	4	NO	0.00002069
8.20	SOLENOID VALVE(2 WAY/3 WAY/4 WAY) INCLUDING FPS SOL.VALVE	300	NO	0.00077654
8.21	POSITION TRANSMITTER	94	NO	0.00042548
8.22	AIR FILTER REGULATOR(1/4"-1") INCLUDING SADC AFR	68	NO	0.00017602
8.23	MASS FLOW METER / BY PASS ROTAMETER/ ULTRASONIC / MAGNETIC FLOW TRANSMITTER	85	NO	0.00109971
8.24	PURGE METER	12	NO	0.00003106
8.25	SPEED MEASURING PROBE	40	NO	0.00020689
8.26	PROXIMITY PROBE/PIEZO ELECTRIC PROBE/LVDT FOR VMS/TSI SYSTEM INCLUDING DRIVER, EXT CABLE, MOUNTING BRACKETS/PADS AND JB's	766	NO	0.00446035
8.27	CONTINUOUS EMISSION MONITORING SYSTEM AT STACK(SOX/ NOX/CO/CO2 ANALYSER) CONSISTING OF PROBE AND ANALYSER PANEL,AC UNIT, AIR DRYER	2	SET	0.00103486
8.28	OXYGEN ANALYSER INCLUDING PROBE ,LOCAL DISPLAY UNIT,AUTO CALIBRATION UNIT&CYLINDER.	21	SET	0.00162986
8.29	OPACITY MONITOR/ SMOKE DENSITY ANALYSER/ DUST ANALYSER including BLOWER, LOCAL DISPLAY UNIT and ACCESSORIES.	10	SET	0.00129359
8.30	CONDUCTIVITY ANALYSER	51	NO	0.00082454
8.31	PH ANALYSER	45	NO	0.00072754

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
8.32	DISSOLVED OXYGEN ANALYSER	8	NO	0.00015522
8.33	SILICA ANALYSER	5	NO	0.00012935
8.34	SODIUM ANALYSER	3	NO	0.00007761
8.35	OIL IN WATER ANALYSER	1	NO	0.00002587
8.36	CHLORINE ANALYSER	2	NO	0.00005174
8.37	TURBIDITY ANALYSER	22	NO	0.00042684
8.38	ORP ANALYSER	5	NO	0.00012935
8.39	FLUE GAS FLOWMETER AT STACK	2	NO	0.00006468
8.40	COAL BUNKER LVL MONITORING SYSTEM COSISTING OF 6 nos 3D LEVEL SCANNER,LOCAL PANEL WITH DISPLAY AND COMPUTER AND OTHER ACC	2	SET	0.00045276
8.41	UCB/ECP MOUNTED INSTRUMENTS/ INDICATOR/ RECORDER / CONTROL STATION / INTEGRATOR/CONTROLLER	10	NO	0.00004526
8.42	FLAME SCANNER HEAD ASSEMBLY INCLUDING CABLING UPTO JB	56	NO	0.00090538
8.43	HEA IGNITOR WITH/WITHOUT RETRACTOR ASSEMBLY	24	NO	0.00046565
8.44	HEA EXCITER BOX	24	NO	0.00031051
8.45	AIR LOCK RELAY	30	NO	0.00009703
8.46	SPEED REGULATOR	24	NO	0.00007763
8.47	ASLD SENSOR & AMPLIFIER JBS ALONG WITH GUIDE TUBE, FLEX HOSE AND PRE-FAB CABLE	60	NO	0.00077626
8.48	COAL FLOW MONITOR INCLUDING SENSOR, AMPLIFIER AND PRE-FAB CABLES.	12	NO	0.00019401
8.49	SEAL AIR DYNA VANE CONSISTING OF PNEUMATIC CONTROL VALVE, AFR.	2	SET	0.00004527
8.50	MD BFP SCOOP POWER CONTROLLER	2	NO	0.00002588
8.51	Ni-Cad batteries for FPS system	30	Nos.	0.0002911
8.52	Pressure Switch for FPS system	469	Nos.	0.00151695
8.53	Pressure Relief Vent for FPS system	60	Nos.	0.00027158
8.54	Gas Discharge EPB for FPS system	35	Nos.	0.00022641
8.55	Inhibitor unit for FPS system	35	Nos.	0.00022641
8.56	Discharge Indicator for FPS system	35	Nos.	0.00018103
8.57	Pre-Discharge Indicator for FPS system	35	Nos.	0.00018103
8.58	Q.B Detector - 79 "for FPS system	9885	Nos.	0.00638529
8.59	Pressure Gauge	32	Nos.	0.00016551
8.60	Pressure Transmitter	7	Nos	0.00005433
8.61	Level Transmitter	9	NO	0.00006985

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
8.62	Level indicator	3	No	0.00003881
8.63	Multisensor Detectors	3000	No	0.0194066
8.64	Probe Detectors	8	No	0.00004138
8.65	Beam Detectors	20	NO	0.00010345
8.66	Infrared Detectors with Air Purge Unit	80	No	0.00051751
8.67	Infrared Flame Detector	20	No	0.00010345
8.68	Manual Call Points	620	No	0.00200535
8.69	Modules	1700	No	0.00549854
8.70	Hooter cum Strobe	600	No	0.00194066
8.71	Response Indicators	650	NO	0.00210238
8.72	Siren (1 km) with Siren Control Panel	1	NO	0.00005174
8.73	Thermal imaging camera along with accessories	8	NO	0.00005175
8.74	DEW POINT MONITORING SYSTEM AT FLUE GAS DUCT CONSISTING PROBE ,WALL MOUNTED ENCLOSER,DEW POINT ANALYSER WITH DISPLAY,SUCTION PUMP AND OTHER ACC.	4	NO	0.00038808
8.75	CO& NOX ANALYSER AT FLUE GAS DUCT CONSISTING IN-SITU TYPE ANALYSER,AIR PURGE UNIT AND Other Mounting Accessories	4	NO	0.00038808
9.0	CALIBRATION, TESTING, COMMISSIONING (EXCLUDING ERECTION OF VALVE/ POWER CYLINDER, BUT INCLUDING ERECTION OF ACCESSORIES, CALIBRATION, TESTING, COMMISSIONING)			
9.1	POWER CYLINDER (ON-OFF TYPE) INCLUDING ERECTION & COMMISSIONING OF LIMIT SWITCH,SOV AND ALL OTHER ACCESSORIES	96	NO	0.00124202
9.2	POWER CYLINDER (REGULATING TYPE) POSITION TRANSMITTER/SMART POSITIONER	16	NO	0.00015525
9.3	CONTROL VALVES (REGULATING)/CONTROL VALVE (PNEUMATICALLY OPERATED) INCLUDING POSITION TRANSMITTER	355	NO	0.00573947
9.4	CONTROL VALVE/GATE (ON-OFF TYPE)	330	NO	0.00426945
9.5	EXTRACTION NRV / LPBP SPRAY WATER/LPBP CONTROL VALVE/EHTC CONTROL/STOP VLV	34	NO	0.00043988
9.6	GLAND STEAM CONTROL VALVE	4	NO	0.00005175
9.7	HPBP PR & TEMP CONTROL VALVE	8	NO	0.0001035
9.8	HPBP SPRAY BLOCK VALVE	2	NO	0.00002588
9.9	Dosing pump Stroke Controller	44	NO	0.00028463

VOLUME-III(A (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
9.10	REMOVAL,CALIBRATION, RE-MOUNTING AND COMMISSIONING OF INSTRUMENTS FOR SKID. EACH SKID WILL HAVE MINIMUM OF 5 NO INSTRUMENTS, EG 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.	30	NO	0.00048503
9.11	HEALTHINESS CHECKING OF HT MOTOR BEARING /WINDING TEMPERATURE ELEMENTS PER HT MOTOR.	50	SET	0.00032344
9.12	BOILER STARTUP HYDRAULIC VALVES Each Set consists of 3 nos hydraulic control valves (HWL-1, 2 and MEFCV)WITH LOCAL JB CONTROLLER ,POSITION TRANSMITTERS & 1 NO. OF HPSU.	2	SET	0.00003234
10.0	POWER CYLINDER(ERECTION,CALIBRATION,TESTING, COMMISSIONING)			
10.1	POWER CYLINDER FOR SADC	176	NO	0.00455327
10.2	POWER CYLINDER (REGULATING TYPE) INCLUDING BURNER TILT CYLINDER	44	NO	0.00128063
10.3	POWER CYLINDER (ON OFF TYPE)	6	NO	0.00017463
11.0	UPS, 24 V DC SYSTEM,BHMS,PDB			
11.1	150/100 KVA UPS SYSTEM WITH ACDB & LEAD ACID BATTERY BANK& BATTERY STAND	2	SET	0.00388074
11.2	15/20/25 KVA UPS SYSTEM WITH ACDB & LEAD ACID BATTERY BANK&BATTERY STAND (COMMON FOR BOTH UNITS)	3	SET	0.00232844
11.3	10/5 KVA UPS SYSTEM WITH ACDB & LEAD ACID BATTERY BANK& BATTERY STAND(COMMON FOR BOTH UNITS)	4	SET	0.00258716
11.4	POWER DISTRIBUTION BOARD (PDB) FOR UPS SYSTEM	13	SET	0.00075674
11.5	24V DC CHARGER HAVING CURRENT RATING MORE THEN 300A WITH DCDB &BATTERY WITH ACCESSORIES FOR 24 VDC CHARGER SYSTEM INCLUDING BATTERY STAND.	8	SET	0.00620918
11.6	24V DC CHARGER HAVING CURRENT RATING MORE THEN 100A AND UPTO 300A WITH DCDB &BATTERY WITH ACCESSORIES FOR 24 VDC CHARGER SYSTEM INCLUDING BATTERY STAND.	14	SET	0.00905505
11.7	24V DC CHARGER HAVING CURRENT RATING LESS THEN 100A WITH DCDB &BATTERY WITH ACCESSORIES FOR 24 VDC CHARGER SYSTEM INCLUDING BATTERY STAND. FOR MAIN PLANT	18	SET	0.00931375
11.8	BATTERY HEALTH MONITORING SYS (BHMS) SYSTEM INCLUDING ALL ACCOSSORIES.	13	SET	0.00016819
11.9	BATTERY CHARGER ALNOG WITH BATTERY BANK AND ALL ACCESSORIES FOR FIRE FIGHTING SYSTEM	2	SET	0.00051744
11.10	ERECTION & COMMISSIONING OF PORTABLE RADIO SYSTEM	1	SET	0.00006468
12.0	MISCLANEOUS			

VOLUME-III (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-3 - SERVICE PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
12.1	FAB OF CANOPY (STRUCTURAL MATERIAL AND GI SHEET WILL BE PROVIDED BY BHEL, FREE OF COST)	2	MT	0.00058211
12.2	FIXING OF POLE TO MOUNT CAMERAS INCLUDING CIVIL WORK	40	NO	0.00232842
12.3	LAYING THE CONDUIT IN SLAB/WALL FOR CONCEALED WIRING AND ASSOCIATED CIVIL WORK SHALL BE DONE LIKE CUTTING, DRILLING, CHASING, PLASTERING, PAINTING.	5000	MTR	0.0097126
12.4	CIVIL WORK OF DIGGING/EXCAVATION OF SOIL, LAYING BRICK LAYER, LAYER OF SAND, INCLUDING SUPPLY OF BRICK AND SAND AND BACK FILLING ETC. COMPLETE AS PER INSTRUCTION OF BHEL FOR LAYING BURIED CABLE/THROUGH HDPE CONDUIT	10000	MTR	0.0097126
12.5	ERECTION OF CABLE SHADDLES/FITTINGS & FIXTURES FOR CABLING IN FPS AS PER DRAWING TO MAINTAIN AESTHETIC & SUPPORT (QUANTITY OF SHADDLES/FITTINGS & FIXTURE REQUIRED TO LAY CABLE PER METER WILL BE DECIDED AT SITE)	160000	MTR	0.00520484
13.0	PG TEST ITEM			
13.1	1/2" IMPULSE PIPE	600	MTR	0.00087274
13.2	COMPENSATING CABLE (2C, CORE SIZE UPTO 2.5 SQMM) LAYING & TERMINATION	1200	MTR	0.00011711
13.3	2C, CORE SIZE UPTO 2.5 SQMM CABLE LAYING & TERMINATION	2800	MTR	0.00027325
13.4	4C, CORE SIZE UPTO 2.5 SQMM CABLE LAYING & TERMINATION	2800	MTR	0.00031229
13.5	PRE-FAB CABLE FROM DATA LOGGER TO COMPUTER	50	MTR	0.00000488
13.6	JUNCTION BOX	80	NO	0.00077626
13.7	THERMOCOUPLE	45	NO	0.00026203
13.8	PR/ VACUUM/ DP TRANSMITTER	70	NO	0.00054325
13.9	DATA LOGGER	1	SET	0.00001617
13.10	MANOMETER	10	NO	0.00003234
13.11	THERMOWELL	135	NO	0.00039273
13.12	PRT (PT RESISTANCE THERMOMETER)	90	NO	0.00023296
13.13	BAROMETER	1	NO	0.00000291
13.14	POWER METER/ TRANSDUCER	10	NO	0.00003234
14.0	TRANSPORTATION TO THE LOCATION, INSTALLATION, MAKING PROVISION OF POWER SUPPLY ARRANGEMENT BY DOING CABLE LAYING & INSTALLATION OF SWITCHES & SOCKETS, ASSISTANCE IN COMMISSIONING & HANDOVER OF LAB ITEMS FOR MECHANICAL, ELECTRICAL, CHEMICAL AND SPECIAL MAINTENANCE TOOLS AND TACKLES (COMMON FOR BOTH UNIT)			
14.1	MECHANICAL LAB ITEMS	1	SET	0.00032339
14.2	ELECTRICAL LAB ITEMS	1	SET	0.00029105
14.3	CHEMICAL LAB ITEMS	1	SET	0.00032339
14.4	AMBIENT AIR MONITORING SYSTEM & METROLOGICAL STATION	1	SET	0.00019404
TOTAL (SCH-3)				0.88113527

VOLUME-III (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-4 - SUPPLY PART				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
1.0	FITTINGS (WITH NUT & FERRULES).			
1.1	3/8' x 10 MM OD MALE CONNECTOR.	10	NO	0.00002426
1.2	3/4" MALE 10 MM OD ELBOW.	10	NO	0.00002588
1.3	1/4" OD x 3/8" NPT MALE CONNECTOR, SS316.	25	NO	0.00005658
1.4	1/4"OD x 1/4" OD STRAIGHT CONNECTOR (DOUBLE COMPRESSION).	25	NO	0.00004856
1.5	1/4" OD x 1/2" NPT MALE CONNECTOR, SS316.	25	NO	0.00008086
1.6	AS NIPPLE (1" x 4").	10	NO	0.0000388
1.7	SS EQUAL TEE ½" NPT.	10	NO	0.00002909
1.8	SS CONNECTOR MALE ½ " NPT X ½" (M).	10	NO	0.00003234
1.9	UNEQUAL TEE 8 MM x 8 MM x ¼".	10	NO	0.00002263
1.10	½ " NPT MALE CONNECTOR.	10	NO	0.00003234
1.11	½ " BSW FEMALE CONNECTOR.	10	NO	0.00003234
1.12	GI NIPPLE (100 MM).	10	NO	0.00001943
1.13	3/8' x 1/4' NPT MALE CONNECTOR WITH FERRULE.	300	NO	0.00067895
2.0	DOUBLE COMPRESSION GLAND (MAKE: DOWEL/ COMMET/ SUNIL & CO/ ARUP ENGINEERING).			
2.1	UPTO 15 MM DIA.	25	NO	0.00008086
2.2	ABOVE 15 MM TO 18 MM DIA.	10	NO	0.00004526
2.3	ABOVE 18 MM TO 25 MM DIA.	8	NO	0.00004658
2.4	RJ45 CONNECTORS FOR CAT5 CABLE.	8	PKTS	0.00006209
3.0	RTD (STANDARD MAKE).			
3.1	PT100 RTD NORMAL SIMPLEX & DUPLEX TYPE.	3	NO	0.00011643
3.2	PENCIL RTD PT 100 SIMPLEX & DUPLEX TYPE.	3	NO	0.00007761
3.3	SPIKE BUSTER.	3	NO	0.00001552
3.4	Bakelite 6 & 16 Amp. S.S. Combined Switch Socket	30	NO	0.00009703
3.5	CFL LAMP, 20 WATT.	5	NO	0.00001455
4.0	CRIMPING LUGS 0.5 TO 2.5 SQMM	500	NO	0.00003253
TOTAL (SCH-4)				0.00171052

VOLUME-III A (PSER PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-5- COMMISSIONING SUPPORT				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
1.0	COMMISSIONING SUPPORT SERVICE BY DEPLOYING SPECIALISED SKILLED TECHNICAL MANPOWER (ALONG WITH GENERAL & SPECIAL TESTING TOOL KITS) FOR TESTING, COMMISSIONING, ETC OF C&I EQUIPMENT/ ITEMS, BEYOND SPECIFIED/ NORMAL SCOPE OF THIS TENDER.	30	DAY	0.00034924
2.0	COMMISSIONING SUPPORT SERVICE BY DEPLOYING UN-SKILLED MANPOWER (ALONG WITH GENERAL & SPECIAL TOOL KITS) FOR TESTING, COMMISSIONING, ETC OF C&I EQUIPMENT/ ITEMS, BEYOND SPECIFIED/ NORMAL SCOPE OF THIS TENDER.	60	DAY	0.00038813
TOTAL (SCH-5)				0.00073737
NOTE				
1.0	The apportioned rate of above items as detailed in SCH-1 will be applicable for payment against service rendered against each of above service, which includes requisite manpower, general & special tool kits, etc.			

**VOLUME-III B (ISG PART)
PRICE SCHEDULE, REV-01**

JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.

TENDER NO - PSER:SCT:KLN-I2034:20

PREAMBLE

SL NO	DESCRIPTION
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 plus minus fifteen percent ($\pm 15\%$) of the awarded price as per LOI (respective part).
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.

PREAMBLE

VOLUME-III B (ISG PART)

PRICE SCHEDULE, REV-01

TENDER NO. PSER:SCT:KLN-I2034:20

**VOLUME-IIIB (ISG PART)
PRICE SCHEDULE, REV-01**

JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.

TENDER NO - PSER:SCT:KLN-I2034:20

PREAMBLE

SL NO	DESCRIPTION
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.
12	The tenderer 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.

PREAMBLE

VOLUME-IIIB (ISG PART)

PRICE SCHEDULE, REV-01

TENDER NO. PSER:SCT:KLN-I2034:20

**VOLUME-IIIB (ISG PART)
PRICE SCHEDULE, REV-01**

JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.

TENDER NO - PSER:SCT:KLN-I2034:20

PREAMBLE

SL NO	DESCRIPTION
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 , the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/ Bangladesh Schedules 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 shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight chages against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoated price against each item keeping the total quoted price unaltered.

PREAMBLE

VOLUME-IIIB (ISG PART)

PRICE SCHEDULE, REV-01

TENDER NO. PSER:SCT:KLN-I2034:20

VOLUME-IIIB (ISG PART) PRICE SCHEDULE, REV-01			
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.			
TENDER NO - PSER:SCT:KLN-I2034:20			
SCHEDULE - 1 : BREAK UP OF TOTAL PRICE			
SL NO	DESCRIPTION	PRICE SCHEDULE REF	WEIGHTAGE
1.0	TOTAL PRICE FOR ERECTION, LAYING/ INSTALLATION, TESTING, COMMISSIONING, HANDING OVER, ETC OF C&I (CONTROL & INSTRUMENTATION) SYSTEMS OF CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA OF 2X660 MW MAITREE STPP , BANGLADESH	SCH-2	0.11641684

SCHEDULE-I
VOLUME-IIIB (ISG PART)
PRICE SCHEDULE, REV-01
TENDER NO. PSER:SCT:KLN-I2034:20

SIGNATURE WITH SEAL
OF BIDDER

VOLUME-III B (ISG PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-2 - SERVICE PART(CHP/AHP/Limestone & Gypsum Handling AREA)				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
2.0	CABLING INCLUDING LAYING & TERMINATION (POWER/ CONTROL/ SIGNAL, ARMOURED/ UN-ARMOURED, INDIVIDUAL SHIELDED/ OVERALL SHIELDED/ UNSHIELDED, CU/ AL)			
2.1	1P-2P /2C/3C/4C CABLE,UPTO 2.5 SQMM	252500	MTR	0.019948
2.2	4P/ 5C- 8C CABLE, CORE SIZE UPTO 2.5 SQMM	221000	MTR	0.02054052
2.3	10C - 16C/5P-8P CABLE,UPTO 2.5 SQMM	197000	MTR	0.02105635
2.4	19C x 1.5/19Cx2.5 SQMM CABLE	20000	MTR	0.00232359
2.5	12P/ 24-27 CORE CABLE, UPTO 2.5 SQMM	131000	MTR	0.01704584
2.6	16P-24P CABLE, UPTO 2.5 SQMM	113000	MTR	0.01522879
2.7	4P UTP CABLE/ETHERNET/COMMUNICATION/PROFIBUS CABLE	5000	MTR	0.0005809
2.8	2P/4P/8P- 0.5 SQMM PTFE CABLE	4000	MTR	0.00031601
2.9	ELECTRONIC EARTHING CABLE	1000	MTR	0.00013477
2.10	FIBER OPTIC CABLE-MONOMODE & MULTIMODE			
2.10.1	FIBER OPTIC CABLE-MONOMODE & MULTIMODE (LAYING EXCEPT TERMINATION)	10000	MTR	0.00176593
2.10.2	FIBER OPTIC CABLE TERMINATION CORE WISE	200	NOS	0.00077608
6.0	PANEL AND PLANT MONITORING SYSTEM			
6.1	FUNCTIONAL GROUP CONTROL PANEL FOR CHP &AHP PLANT CONTROL, (SUITES OF SINGLE, THREE, FOUR PANELS)			
6.1.1	SUITE OF SINGLE PANEL WITH ACCESSORIES (MAX/NON MAX)(W x H x D in MM 750 x2115x750)	18	SET	0.00139702
6.1.3	SUITE OF THREE PANEL(W x H x D in MM 2250 x2115x750)	4	SET	0.0007244
6.1.4	SUITE OF FOUR PANEL(W x H x D in MM 3000 x2115x750)	21	SET	0.00461809
6.2	HMI			
6.2.1	HMI - Accessories - Max OWS	4	NO	0.00010348
6.2.7	COLOR /BLACK & WHITE LASER PRINTER A4 SIZE	2	NO	0.0000388

VOLUME-III B (ISG PART) PRICE SCHEDULE, REV-01				
JOB: ERECTION, TESTING & COMMISSIONING OF C&I SYSTEM OF "SG & AUXILIARY, TG & AUXILIARY, FGD SYSTEM, STATION C&I OF UNIT#1&2" & C&I OF "MISC SYSTEM & BOP PKG " AND C&I OF "CHP/AHP/LIMESTONE & GYPSUM HANDLING SYSTEM AREA" OF 2X660 MW MAITREE STPP, RAMPAL, BANGLADESH.				
TENDER NO - PSER:SCT:KLN-I2034:20				
SCH-2 - SERVICE PART(CHP/AHP/Limestone & Gypsum Handling AREA)				
SL NO	DESCRIPTION	QUANTITY	UOM	WEIGHTAGE
11	UPS, 24 V DC SYSTEM,BHMS,PDB			
11.1	10 KVA UPS SYSTEM WITH ACDB & LEAD ACID BATTERY BANK& BATTERY STAND(COMMON FOR BOTH UNITS) [UPS: 4000 x 1000 x 1815, ACDB-1 & 2: 3200 x 1000 x 1815 (W x D x H in MM)]	2	SET	0.00129358
11.2	24V DC CHARGER HAVING CURRENT RATING MORE THEN 300A WITH DCDB &BATTERY WITH ACCESSORIES FOR 24 VDC CHARGER SYSTEM INCLUDING BATTERY STAND. [Charger : 9000x900x2000 DCDB :900x900x2000 (W x D x H in MM)]	2	SET	0.0015523
11.3	24V DC CHARGER HAVING CURRENT RATING MORE THEN 100A AND UPTO 300A WITH DCDB &BATTERY WITH ACCESSORIES FOR 24 VDC CHARGER SYSTEM INCLUDING BATTERY STAND. [Charger : 9000x900x2000 DCDB : 900x900x2000 (W x D x H in MM)]	6	SET	0.00388074
11.4	24V DC CHARGER HAVING CURRENT RATING LESS THEN 100A WITH DCDB &BATTERY WITH ACCESSORIES FOR 24 VDC CHARGER SYSTEM INCLUDING BATTERY STAND. FOR MAIN PLANT [Charger : 9000x900x2000 DCDB : 900x900x2000 (W x D x H in MM)]	5	SET	0.00258715
11.5	70 "LVS SYSTEM - 1 SET CONSISTS OF 2 NO. OF SCREEN, MIRROR ASSEMBLY, BASE FRAME , CABLES & ACCESSORIES	2	SET	0.00031046
11.6	MODULAR DESK FOR CONTROL DESK (2 SECTION)	2	SET	0.00019404
TOTAL (SCH-2)				0.11641684
NOTE:	SL NO-1,3,4,5,6.1.2,6.2.2 to 6.2.6,7,8,9,10 ARE DELETED.			