



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

( भारत सरकार का उपक्रम )

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

**TCN - 02**

Ref: PSER:SCT:SAL-M1893:TCN-02

Date: 04-05-2018

Sub	Tender change notice (TCN) 02	
Job	Manufacturing, supply, delivery, E&C, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.	
Ref	1.0	Tender no PSER:SCT:SAL-M1893:18
	2.0	BHEL's NIT, vide reference no. PSER:SCT:SAL-M1893:6708 Dated 20-04-2018.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:SAL-M1893:TCN-01, Dated 02-05-2018
	4.0	All other pertinent issues till date.

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

- 1.0 Revised **PRICE SCHEDULE VOLUME-III, R-1** is attached **superseding VOLUME-III PRICE SCHEDULE, REV-0** issued earlier along with NIT. Bidder shall quote as per this revised Volume-III, Rev-1 only.
- 2.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 3.0 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, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211691, 23211798, 23211796

**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	Manufacturing, supply, delivery, E&C, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.	
Ref	1.0	Tender no PSER:SCT:SAL-M1893:18
	2.0	BHEL's NIT, vide reference no. PSER:SCT:SAL-M1893:6708 Dated 20-04-2018.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:SAL-M1893:TCN-01, Dated 02-05-2018
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:SAL-M1893:TCN-02, Dated 04-05-2018
	5.0	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, SALLAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : (033) 2339-8000/ 2339-8231

<b>VOLUME-III PRICE SCHEDULE, REV-1</b>	
<b>Manufacturing, supply, delivery, e&amp;c, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.</b>	
<b>Tender no PSER:SCT:SAL-M1893:18</b>	
<b>SL</b>	<b>PREAMBLE</b>
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 various volumes of tender 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, 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 fifteen 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.

<b>VOLUME-III PRICE SCHEDULE, REV-1</b>	
<b>Manufacturing, supply, delivery, e&amp;c, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.</b>	
<b>Tender no PSER:SCT:SAL-M1893:18</b>	
<b>SL</b>	<b>PREAMBLE</b>
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 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-1**

**Manufacturing, supply, delivery, e&c, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.**

**TENDER NO - PSER:SCT:SAL-M1893:18**

**SCHEDULE - 1 - MAIN PRICE**

Sl. No	DESCRIPTION OF EQUIPMENT / ITEM	Total Amount
1.0	Total price of <b>Supply part and Service part</b> together on for site basis for manufacturing, inspection / testing at works as well as at site, duly packed , supply / delivery to site including freight, unloading, storage and handling at site, erection and commissioning, hydro test at site, painting, handing over to customer including supply of special tools & tackles for maintenance, supply of commissioning spares and mandatory spares as required for completion of <b>balance works of Fuel Oil system and Miscellaneous Tank Package</b> for 3 X 250 MW NTPC Bongaigaon TPP, Salakati , Kokrajhar, Assam.	
	<b>Notes:</b>	
1.0	Bidder to quote their price against SL NO. 1.0 above. Bidder to note that total price indicated against scope at 1.0 shall be considered for evaluation and hence should be completed in all respect for the full scope defined and considering all terms and conditions as per tender. 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. Awarding will be done seperately for supply and services part on corresponding quoted / accepted price. The bidder shall visit site of work to review the present status and assess the balance works before submission of their offer.	
1.1	SCH-2 - Supply & Service price break-up .	
1.2	SCH-3 - Supply price break-up .	
1.3	SCH-4 - Service price break-up.	

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

**Manufacturing, supply, delivery, e&c, etc of balance works of Fuel oil Handling system and Misc.  
Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.**

**TENDER NO - PSER:SCT:SAL-M1893:18**

**SCHEDULE - 2- TOTAL PRICE**

<b>SL NO</b>	<b>DESCRIPTION</b>	<b>WEIGHTAGE</b>
1.0	TOTAL PRICE OF SCHEDULE -3 SUPPLY	73.094081362%
2.0	TOTAL PRICE OF SCHEDULE -4 SERVICE	26.905918638%
<b>3.0</b>	<b>TOTAL</b>	<b>100.000000000%</b>

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PRICE SCHEDULE, REV-1						
Manufacturing, supply, delivery, e&c, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.						
TENDER NO - PSER:SCT:SAL-M1893:18						
SCHEDULE - 3 - PRICE BREAK-UP (SUPPLY)						
Sl.No	DESCRIPTION OF EQUIPMENT / ITEM	Qty	Unit	Weightage of Total Amount(%) upto 9 decimal	Related drgs	Related MQPs
1.0	FUEL OIL HANDLING SYSTEM					
1.1	MS PLATES FOR TANKS					
1.1.1	MS Plates for Day Oil Tank	6	MT	0.784557318%	4610-101-PEM-PVM-B-007	
1.2	Piping					
1.2.1	OIL PIPINGS ( CS Seamless Pipe as per ASTM A 106 / MS ERW Pipe as per API 5L)				4610-101-PEM-PVM-U-007, 4610-101-PEM-PVM-Y-015	4610-101-QVM-Q-040, 4610-101-QVM-Q-017
1.2.1.1	Size 150 NB	296	Mtrs.	5.933150475%		
1.2.1.2	Size 80 NB	450	Mtrs.	3.535836972%		
1.2.1.3	Size 50 NB	11	Mtrs.	0.051082822%		
1.2.1.4	Size 15 NB	3.5	Mtrs.	0.005208344%		
1.2.2	STEAM & CONDENSATE PIPING (CS Seamless Pipe as per ASTM A 106)				4610-101-PEM-PVM-U-007, 4610-101-PEM-PVM-Y-015	4610-101-QVM-Q-040, 4610-101-QVM-Q-017
1.2.2.1	Size 25 NB	350	Mtrs.	0.780129110%		
1.3	PIPING - STEAM TRACERS				4610-101-PEM-PVM-Y-015	4610-101-QVM-Q-017
1.3.1	CS Seamless Pipe ASTM A 106 Size 20 NB	2100	Mtrs.	3.906257988%		
1.4	STRAINERS & Hoses				4610-101-PEM-PVM-Y-023	4610-101-QVM-Q-046
1.4.1	Basket Type Strainer Size 150 NB for HFO Storage Tank	1	Nos	1.067967086%	PE-V0-306-166-A212	
1.4.2	Basket Type Strainer Size 150 NB for LDO Storage Tank	1	Nos	1.067967086%	PE-V0-306-166-A212	
1.4.3	Basket Type Strainer Size 100 NB for LDO Transfer Pump	1	No.	0.843495157%	4610-101-PEM-PVM-Y-023	4610-101-QVM-Q-046
1.4.4	Oil Hoses for HFO Unloading Size 75 NB (8 mtrs length)	10	Nos	0.820346249%	4610-101-PEM-PVM-Y-024	4610-101-QVM-Q-020
1.4.5	Oil Hoses for LDO unloading Size 75 NB (8 mtrs length)	5	Nos	0.410173124%	4610-101-PEM-PVM-Y-024	4610-101-QVM-Q-020
1.4.6	Steam Hoses Size 50 NB (8 mtrs length)	10	Nos	0.328119257%	4610-101-PEM-PVM-Y-025	4610-101-QVM-Q-021
1.5	Valves (for all Services)					
1.5.1	GATE VALVES				4610-101-PEM-PVM-Y-017,	4610-101-QVM-Q-015,
1.5.1.1	Gate Valve Size 40 NB	16	Nos	0.491842139%		
1.5.2	BALL VALVES				4610-101-PEM-PVM-Y-026	4610-101-QVM-Q-041
1.5.2.1	Ball Valve Size 80 NB	5	Nos	0.369859772%		
1.5.2.2	Ball Valve Size 350 NB	1	No.	1.172005681%		
1.5.2.3	Motorised Ball Valve Size 80 NB	2	Nos	1.359935817%	PE-V0-306-166-A201 (Actuaters)	
1.5.2.4	Motorised Ball Valve Size 150 NB	5	Nos	5.029018520%	PE-V0-306-166-A201 (Actuaters)	
1.5.2.5	Motorised Ball Valve Size 300 NB	3	Nos	3.884379095%	PE-V0-306-166-A201 (Actuaters)	
1.5.3	GLOBE VALVES				4610-101-PEM-PVM-Y-017,	4610-101-QVM-Q-015,

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PRICE SCHEDULE, REV-1						
Manufacturing, supply, delivery, e&c, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.						
TENDER NO - PSER:SCT:SAL-M1893:18						
SCHEDULE - 3 - PRICE BREAK-UP (SUPPLY)						
Sl.No	DESCRIPTION OF EQUIPMENT / ITEM	Qty	Unit	Weightage of Total Amount(%) upto 9 decimal	Related drgs	Related MQPs
1.5.3.1	Globe Valve Size 40 NB	7	Nos	0.162626051%		
1.5.3.2	Globe Valve Size 80 NB	3	Nos	0.203712316%		
1.5.4	NON RETURN VALVE				4610-101-PEM-PVM-Y-017,	4610-101-QVM-Q-015,
1.5.4.1	Non Return Valve Size 50 NB	9	Nos	0.241793521%		
1.6	<b>Pumps along with its drive</b>					
1.6.1	HFO/HPS Drain Pumps (capacity 10 cum/hr)	1	No.	0.544631143%	4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
1.6.2	Dirty Oil Pump (capacity 5 cum/hr)	1	No.	0.361566190%	4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
1.7	<b>C&amp; INSTRUMENTS</b>					
1.7.1	<b>INSTRUMENTS IN HFO SYSTEM</b>					
1.7.1.1	Diff. pressure Gauge	3	Nos.	0.096213251%	4610-101-PEM-PVM-Y-006	
1.7.1.2	Pressure Gauge	3	Nos.	0.028863975%	4610-101-PEM-PVM-Y-004	
1.7.1.3	Flow Meter	1	No.	0.714097956%	4610-101-PEM-PVM-Y-008	4610-101-QVM-Q-503
1.7.1.4	Level Transmitter	3	Nos.	0.336746378%	4610-101-PEM-PVM-Y-010	4610-101-QVI-Q-003
1.7.1.5	Level Indicator	3	Nos.	0.096213251%	4610-101-PEM-PVM-Y-011	
1.7.1.6	Temp. Indicator	3	Nos.	0.028863975%	4610-101-PEM-PVM-Y-005	
1.7.1.7	Temperature. Element with transmitter	9	Nos.	0.288639753%	4610-101-PEM-PVM-Y-009	4610-101-QVI-Q-002
1.7.1.8	Diff. pressure transmitter	3	Nos.	0.288639753%	4610-101-PEM-PVM-Y-007	4610-101-QVI-Q-001
1.7.1.9	Pressure Transmitter	1	Nos.	0.064142167%	4610-101-PEM-PVM-Y-012	4610-101-QVI-Q-001
1.7.2	<b>INSTRUMENTS IN LDO SYSTEM</b>					
1.7.2.1	Diff. pressure Gauge	2	Nos.	0.064142167%	4610-101-PEM-PVM-Y-006	
1.7.2.2	Pressure Gauge	2	Nos.	0.019242650%	4610-101-PEM-PVM-Y-004	
1.7.2.3	Flow Meter	1	No.	0.714097956%	4610-101-PEM-PVM-Y-008	4610-101-QVM-Q-503
1.7.2.4	Level Transmitter	1	No.	0.112248793%	4610-101-PEM-PVM-Y-010	4610-101-QVI-Q-003
1.7.2.5	Diff. Pressure Transmitter	2	Nos.	0.192426502%	4610-101-PEM-PVM-Y-007	4610-101-QVI-Q-001
1.7.2.6	Pressure Transmitter	1	No.	0.064142167%	4610-101-PEM-PVM-Y-012	4610-101-QVI-Q-001
1.7.3	<b>INSTRUMENTS IN LDO DAY OIL SYSTEM</b>					
1.7.3.1	Level Transmitter	1	No.	0.112248793%	4610-101-PEM-PVM-Y-010	4610-101-QVI-Q-003
1.7.3.2	Diff. pressure Gauge	1	No.	0.032071084%	4610-101-PEM-PVM-Y-006	
1.7.3.3	Pressure Gauge	2	Nos.	0.019242650%	4610-101-PEM-PVM-Y-004	
1.7.3.4	Level Indicator	1	No.	0.032071084%	4610-101-PEM-PVM-Y-011	
1.7.3.5	Diff. Pressure Transmitter	1	No.	0.096213251%	4610-101-PEM-PVM-Y-007	4610-101-QVI-Q-001



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TENDER NO - PSER:SCT:SAL-M1893:18						
SCHEDULE - 3 - PRICE BREAK-UP (SUPPLY)						
Sl.No	DESCRIPTION OF EQUIPMENT / ITEM	Qty	Unit	Weightage of Total Amount(%) upto 9 decimal	Related drgs	Related MQPs
1.7.3.6	Pressure Transmitter	1	No.	0.064142167%	4610-101-PEM-PVM-Y-012	4610-101-QVI-Q-001
1.7.4	DRAIN OIL SYSTEM					
1.7.4.1	Pressure Gauge	2	Nos.	0.019242650%	4610-101-PEM-PVM-Y-004	
1.7.4.2	Level Indicator	1	No.	0.032071084%	4610-101-PEM-PVM-Y-011	
1.7.4.3	Level Transmitter	1	No.	0.112248793%	4610-101-PEM-PVM-Y-010	4610-101-QVI-Q-003
1.7.4.4	Temp. Indicator	1	No.	0.009621325%	4610-101-PEM-PVM-Y-005	
1.7.4.5	Temp. element with transmitter	1	No.	0.032071084%	4610-101-PEM-PVM-Y-009	4610-101-QVI-Q-002
1.7.5	SUMP SYSTEM					
1.7.5.1	Pressure Gauge	2	Nos.	0.019242650%	4610-101-PEM-PVM-Y-004	
1.7.5.2	Level Transmitter	1	No.	0.112248793%	4610-101-PEM-PVM-Y-010	4610-101-QVI-Q-003
1.7.6	OWS SYSTEM					
1.7.6.1	Pressure Gauge	4	Nos.	0.038485300%	4610-101-PEM-PVM-Y-004	
1.7.6.2	Level Transmitter	2	Nos.	0.224497586%	4610-101-PEM-PVM-Y-010	4610-101-QVI-Q-003
1.7.7	CONTROL VALVE					
1.7.7.1	modulating type	1	No.	0.962132509%	4610-101-PEM-PVM-Y-014	4610-101-QVM-Q-007
1.7.7.2	On/off type	1	No.	0.897990342%		
1.7.7.3	Pressure reducing station	1	No.	14.207490056%	4610-101-PEM-PVM-Y-013	4610-101-QVM-Q-022 (043A)
2.0	MISC TANKS					
2.1	MS Plates for 3 Nos of Overhead Condensate Surge Tank	19	MT	2.484431506%	4610-101-PEM-PVM-B-035	
2.2	Valves				4610-101-PEM-PVM-Y-017,	4610-101-QVM-Q-015,
2.2.1	Gate Valve Size 80 NB	3	Nos	0.347233623%		
2.2.2	Gate Valve Size 50 NB	6	Nos	0.558036855%		
2.2.3	Globe Valve size 25 NB	18	Nos	1.327742863%		
2.2.4	Globe Valve size 15 NB	6	Nos	0.286715488%		
2.3	Pipings					
2.3.1	SS Pipe Size 200 NB	34	Mtrs	3.053167163%	4610-101-PEM-PVM-U-007,	4610-101-QVM-Q-040, 4610-
2.3.2	SS Pipe Size 100 NB	11	Mtrs	0.493894688%	4610-101-PEM-PVM-Y-015	101-QVM-Q-017
2.3.3	CS Seamless Pipe ASTM A 106 Size 150 NB	10	Mtrs	0.585008637%		
2.4	Level Gauge	9	Nos	0.370959810%	4610-101-PEM-PVM-Y-011	
3.0	Commissioning spares and Special Tool & Tackles	1	Lot		No drawing is applicable for these items	
3.1	Spanners (Double Headed)	2	Set	0.005772795%		

VOLUME-III						
PRICE SCHEDULE, REV-1						
Manufacturing, supply, delivery, e&c, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP, Kokrajhar, Assam.						
TENDER NO - PSER:SCT:SAL-M1893:18						
SCHEDULE - 3 - PRICE BREAK-UP (SUPPLY)						
Sl.No	DESCRIPTION OF EQUIPMENT / ITEM	Qty	Unit	Weightage of Total Amount(%) upto 9 decimal	Related drgs	Related MQPs
3.2	Round, Trianlge Flat Files (1/2")	2	Set	0.005772795%		
3.3	Screw Drivers	2	Set	0.005772795%		
3.4	Pliers	2	Set	0.005772795%		
3.5	Hacksaw with one dozen blades	2	Set	0.005772795%		
4.0	<b>MANDATORY SPARES</b>					
4.1	Strainer Elements				4610-101-PEM-PVM-Y-023	4610-101-QVM-Q-046
4.1.1	HFO unloading pumps	2	NO	0.079202748%		
4.1.2	LDO unloading pumps	1	NO	0.031650952%		
4.1.3	FO Drain Pumps	1	NO	0.039598167%		
4.2	Floor coil heater for				4610-101-PEM-PVM-B-010	
4.2.1	H.F.O. Storage Tank	296	Mtrs	0.395992702%		
4.2.2	Oil water separator pit	1.5	Mtrs	0.118799312%		
4.3	Relief valve complete assembly				No separate drawing is applicable for this item	
4.3.1	HFO unloading pumps	1	NO	0.039598167%	4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
4.3.2	LFO (LDO) unloading pumps	1	NO	0.039598167%	4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
4.3.3	Pressure reducing station	1	NO	0.099000228%	4610-101-PEM-PVM-Y-013	4610-101-QVM-Q-022 (043A)
4.4	Bearing of				4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
4.4.1	HFO unloading pumps	1	SET	0.059398854%		
4.4.2	LFO (LDO) unloading pumps	1	SET	0.059398854%		
4.4.3	FO Drain Pumps	1	SET	0.031679816%		
4.5	Coupling Bolts with nuts, washera and bushes for HFO/LFO	1	SET	0.095039449%		
4.5.1	Wearing Rings					
4.5.1.1	For Sump pump	1	SET	0.029699427%	4610-101-PEM-PVM-Y-027	4610-101-QVM-Q-053
4.5.1.2	For Water pit pump	1	SET	0.029699427%		
4.5.2	Gland Packing				4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
4.5.2.1	For Drain oil pump	1	NO	0.005939565%	4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
4.5.2.2	For Dirty oil pump	1	NO	0.005939565%	4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
4.6	Mechanical seal assembly					
4.6.1	HFO unloading pumps	1	SET	0.007919409%	4610-101-PEM-PVM-Y-016	4610-101-QVM-Q-052
4.6.2	LFO (LDO) unloading pumps	1	SET	0.007919409%		
4.6.3	LFO (LDO) Transfer pumps	1	SET	0.007919409%		

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PRICE SCHEDULE, REV-1						
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TENDER NO - PSER:SCT:SAL-M1893:18						
SCHEDULE - 3 - PRICE BREAK-UP (SUPPLY)						
Sl.No	DESCRIPTION OF EQUIPMENT / ITEM	Qty	Unit	Weightage of Total Amount(%) upto 9 decimal	Related drgs	Related MQPs
4.7	Shaft Sleeve					
4.7.1	For sump pump	1	SET	0.017818694%	4610-101-PEM-PVM-Y-027	4610-101-QVM-Q-053
4.7.2	For waterpit pump	1	SET	0.017818694%		
4.8	Gate Valves				4610-101-PEM-PVM-Y-017	4610-101-QVM-Q-015
4.8.1	Gate Valve - 15 NB,Manual	1	NO	0.128284335%		
4.8.2	Gate Valve - 20 NB,Manual	5	NO	0.801777091%		
4.8.3	Gate Valve - 25 NB,Manual	1	NO	0.173183852%		
4.8.4	Gate Valve - 40 NB,Manual	2	NO	0.352781920%		
4.8.5	Gate Valve - 50 NB,Manual	2	NO	0.384853004%		
4.8.6	Gate Valve - 80 NB,Manual	1	NO	0.240533127%		
4.8.7	Gate Valve - 100 NB,Manual	1	NO	0.256568669%		
4.8.8	Gate Valve - 150 NB,Manual	1	NO	0.291846861%		
4.8.9	Gate Valve - 200 NB,Manual	1	NO	0.358278904%		
4.9	Ball Valves				4610-101-PEM-PVM-Y-026 (Ball Valve)	4610-101-QVM-Q-041 (Ball Valve)
4.9.1	Ball Valve - 15 NB,Manual	2	NO	0.038485300%		
4.9.2	Ball Valve - 20 NB,Manual	2	NO	0.044899517%		
4.9.3	Ball Valve - 25 NB,Manual	1	NO	0.025656867%		
4.9.4	Ball Valve - 40 NB,Manual	1	NO	0.026298289%		
4.9.5	Ball Valve - 50 NB,Manual	1	NO	0.028863975%		
4.9.6	Ball Valve - 80 NB,Manual	2	NO	0.076970601%		
4.9.7	Ball Valve - 100 NB,Manual	2	NO	0.096213251%		
4.9.8	Ball Valve - 150 NB,Manual	3	NO	0.153941202%		
4.9.9	Ball Valve - 200 NB,Manual	1	NO	0.080177709%		
4.9.10	Ball Valve - 350 NB,Manual	1	NO	0.089799034%		
4.9.11	Ball Valve - 80 NB,Motorized	1	NO	0.096213251%		
4.9.12	Ball Valve - 150 NB,Motorized	1	NO	0.144319876%		
4.9.13	Ball Valve - 300 NB,Motorized	1	NO	0.220649056%		
4.10	Globe Valves				4610-101-PEM-PVM-Y-017	4610-101-QVM-Q-015
4.10.1	Globe Valve - 15 NB,Manual	3	NO	0.048106625%		
4.10.2	Globe Valve - 25 NB,Manual	1	NO	0.024053313%		
4.10.3	Globe Valve - 40NB,Manual	1	NO	0.040088855%		

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PRICE SCHEDULE, REV-1						
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TENDER NO - PSER:SCT:SAL-M1893:18						
SCHEDULE - 3 - PRICE BREAK-UP (SUPPLY)						
Sl.No	DESCRIPTION OF EQUIPMENT / ITEM	Qty	Unit	Weightage of Total Amount(%) upto 9 decimal	Related drgs	Related MQPs
4.10.4	Globe Valve - 80 NB,Manual	1	NO	0.056124396%		
4.10.5	Globe Valve - 200 NB,Manual	1	NO	0.096213251%		
4.10.6	Non Return Valve - 20 NB	1	NO	0.019242650%	4610-101-PEM-PVM-Y-017	4610-101-QVM-Q-015
4.10.7	Non Return Valve - 25 NB	1	NO	0.024053313%		
4.10.8	Non Return Valve - 40 NB	1	NO	0.040088855%		
4.10.9	Non Return Valve - 50 NB	2	NO	0.102627468%		
4.10.10	Non Return Valve - 80 NB	1	NO	0.056124396%		
4.10.11	Non Return Valve - 100 NB	1	NO	0.064142167%		
4.10.12	Non Return Valve - 150 NB	1	NO	0.070556384%		
4.11	Steam Trap				4610-101-PEM-PVM-Y-020	
4.11.1	25 NB Steam Trap	1	NO	0.198000456%		
4.11.2	20 NB Steam Trap	1	NO	0.198000456%		
4.11.3	15 NB Steam Trap	1	NO	0.198000456%		
4.12	Control Valve				4610-101-PEM-PVM-Y-014	4610-101-QVM-Q-007
4.12.1	Control Valve for floor coil for HFO Tank	1	NO	0.257400914%		
4.12.2	Control Valve for floor coil for Drain oil tank	1	NO	0.257400914%		
4.12.3	Control Valve for suction heater	1	NO	0.336598851%		
4.13	Pressure Reducing Valve	1	NO	2.376008682%	4610-101-PEM-PVM-Y-013	4610-101-QVM-Q-022 (043A)
4.14	Neoprene Rubber unloading hoses for HFO with end connections complete hose	10	NO	0.277254518%	4610-101-PEM-PVM-Y-024	4610-101-QVM-Q-020
	<b>TOTAL SUPPLY</b>			<b>73.094081362%</b>		
<b>NOTE</b>	<b>Flanges,Gaskets &amp; Fastners (like bolts,nuts,studs,washers,clamps) required to complete the system shall be supplied by the bidder within the total quoted supply price.The bidder shall assess this based on review of the balance works.</b>				4610-101-PEM-PVM-Y-015	

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

**Manufacturing, supply, delivery, e&c, etc of balance works of Fuel oil Handling system and Misc. Tanks for 3X250 MW NTPC Bongaigaon TPP,  
Kokrajhar, Assam.**

**TENDER NO - PSER:SCT:SAL-M1893:18**

**SCHEDULE - 4 - PRICE BREAK-UP (SERVICE)**

SI.No	DESCRIPTION OF EQUIPMENT / ITEM	Qty	Unit	Weightage of Total Amount(%) upto 9 decimal
1.0	Completion of restoration and balance erection & commissioning of <b>HFO Tanks</b> including hydrotest , final painting etc.& final readiness, handing over to customer with all accessoris as per technical specification & drawings/ documents/ test procedures approved by BHEL/Customer.	2	Nos	1.653684024%
2.0	Completion of balance erection & commissioning of <b>LDO piping</b> including hydrotest , final painting etc.& final readiness, handing over to customer with all accessoris as per technical specification & drawings/ documents/ test procedures approved by BHEL/Customer.	1	Set	0.140067037%
3.0	Completion of balance erection & commissioning of <b>HFO piping</b> including hydrotest , final painting etc.& final readiness, handing over to customer with all accessoris as per technical specification & drawings/ documents/ test procedures approved by BHEL/Customer.	2	Set	0.280134074%
4.0	Erection & commissioning of <b>Day oil Tanks</b> including hydrotest , final painting etc.& final readiness, handing over to customer with all accessoris as per technical specification & drawings/ documents/ test procedures approved by BHEL/Customer.	1	Set	7.509060818%
5.0	Completion of balance erection & commissioning of <b>Unloading pump house including including drain oil tank.</b> & final readiness, handing over to customer with all accessoris as per technical specification & drawings/ documents/ test procedures approved by BHEL/Customer.	1	Set	7.509060818%
6.0	Completion in all respect of balance erection & commissioning of <b>Unit-1 CST</b> including hydrotest , final painting etc.& final readiness, handing over to customer with all accessoris as per technical specification & drawings/ documents/ test procedures approved by BHEL/Customer.	1	No	0.425410215%
7.0	Erection & commissioning of <b>Unit-2&amp;3 CST</b> including hydrotest , final painting etc.& final readiness, handing over to customer with all accessoris as per technical specification & drawings/ documents/ test procedures approved by BHEL/Customer.	2	Nos	2.850248441%
8.0	Handling at site, erection and commissioning, trial run at site, and handing over to the customer in line with drawings/ documents/ test procedures approved by BHEL/ Customer for <b>NAOH breathers for the tanks</b> as per tender specification and in line with drawings/ documents /test procedures approved by BHEL/Customer.	1	Set	0.086818411%
9.0	Handling at site, erection and commissioning, trial run at site, and handing over to the customer in line with drawings/ documents/ test procedures approved by BHEL/ Customer for <b>Seal pots for the tanks</b> as per tender specification and in line with drawings/ documents /test procedures approved by BHEL/Customer.	1	Set	0.043409206%
10.0	Total prices for painting the tanks for complete Fuel Oil system and Miscellaneous Tank Package as per specification.	1	Set	1.446973521%
11.0	Cleaning / Disposal of the waste oil / Debris from the old F O Tanks	1	Set	4.961052073%
	<b>TOTAL SERVICE</b>			<b>26.905918638%</b>