



# भारत हेवी इलेक्ट्रिकल्स लिमिटेड

( भारत सरकार का उपक्रम )

## BHARAT HEAVY ELECTRICALS LIMITED

( A Govt. of India Undertaking )

TCN – 05

Ref: PSER:SCT:DPL-M1283:TCN-05

Date: 20-01-2012

Sub	Tender change notice (TCN) 05	
Job	Design, engineering, manufacturing, supply/delivery, erection, commissioning, trial run, handing over to customer etc of Fuel oil unloading & storage system and Miscellaneous tank system (1 no. condensate storage tank) Package for 1x250 MW Unit at DPL, Durgapur, WB.	
Ref	1.0	Tender no PSER:SCT:DPL-M1283:11
	2.0	BHEL's NIT, vide reference no PSER:SCT:DPL-M1283:2628, dated 08-12-2011.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:DPL-M1283:TCN-01, dated 27-12-2011
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:DPL-M1283:TCN-02, dated 07-01-2012.
	5.0	BHEL's TCN-03, vide reference no PSER:SCT:DPL-M1283:TCN-03, dated 16-01-2012.
	6.0	BHEL's TCN-04, vide reference no PSER:SCT:DPL-M1283:TCN-04, dated 17-01-2012.
	7.0	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 Clarifications to bidder's queries as per attached Annexure-A.
- 2.0 Revised Price Schedule, Volume-III A, Rev-1 attached. Bidder shall quote as per this revised Volume-III A, Rev-1 only.
- 3.0 Drawing for 'Rail Track start' sketch.
- 4.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 5.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,  
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

- 1.0 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

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## ANNEXURE-A

TENDER NO-PSER:SCT:DPL-M1283:11

## CLARIFICATION TO BIDDER'S QUERY

Sl. No.	Clause No./Reference	Description	Clarifications/Confirmations Required	BHEL reply
1	SL. No.31 of BHEL reply to Bidder's Pre Bid Queries for DPL MT & FOS along with TCN-03	Climatologically report is attached for bidder's reference. BTPN wagon capacity shall be <b>62 KL</b> . Information regarding dimensions and heating time may be collected from RDSO.	As per your confirmation, for wagon capacity in the referred clause given as 62KL. For 40wagons, 40 x 62=2,480KL. To unload 2480KL by using two pumps of 100cu.m/hr, it takes 12.4hrs to unload. As per our previous experience, the total rack time in hours about 7 to 8 hrs (including heating and unloading). And also we had referred RDSO directory wherein we have not found any information regarding heating time required. As per our previous experience, you have to inform us that time for wagon in and out (i.e. how many hours we need to consider for heating & unloading). Kindly check and confirm.  And also for 40wagons (i.e. 2,480KL), storage capacity for LDO (2x1000KL) is not sufficient. Kindly clarify the same.	<b>Bidder to follow specification.</b>
2	SL. No.43 of BHEL reply to Bidder's Pre Bid Queries for DPL MT & FOS along with TCN-03	Rail unloading track has been marked in the <b>attached</b> drg with start point and end point (tentative). This may be used for NPSH calculation	The tentative drawing is not given along with TCN-03. Kindly provide the same.	Rail Track start point is again attached for bidders reference.

<b>VOLUME-III PRICE SCHEDULE, REV-1</b>	
<b>Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading &amp; Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.</b>	
<b>TENDER NO - PSER:SCT:DPL-M1283:11</b>	
<b>PREAMBLE</b>	
01	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully in rates for various items. Clauses under this preamble shall be read in conjunction with Volume-IA, Volume-IB, Volume-IC, Volume-ID, Volume-II together with subsequent changes/ modifications etc thereto as applicable as on date of submission of price offer.
02	The work shall be carried out strictly as per specifications, description of the items in these schedule and/ or engineer's instructions.
03	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
04	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc equipment, strengthening of roads/ culverts/ bridges etc including arranging all clearances etc required for carrying out different activities & tests, materials, levies, taxes, transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the tender document and this schedule.
05	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing 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.
06	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.
07	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.
08	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.
09	Unless otherwise specified & except for tender on lumpsum basis, for all item rate based tenders, the quantities of the various items mentioned in price schedule are approximate, based on very preliminary information and may vary to any extent or to be deleted altogether. The quoted/ accepted rates shall remain firm and valid as long as variation in total value of work executed under this contract including extra items, but excluding any price escalation, remains within +/- 30% (thirty percent) of the contract price given in the LOI/ WO.

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-1 - TOTAL PRICE**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	TOTAL QUOTED PRICE (₹)
1.0	Total lumpsum price for supply part & service part together for design, engineering, manufacturing, inspection and testing, painting, supply/delivery duly packed at project site including freight, receipt, unloading, storage & handling at site, erection, commissioning, trial run, handing over to customer, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, including supply of consumables, start-up & commissioning spares, special tools & tackles for maintenance, for the total scope defined in technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package.	
2.0	Total loading value for steel plate (to be supplied by BHEL free of cost as per tender) for Fuel Oil Unloading & Storage and Miscellaneous Tank (1 no Condensate Storage Tank) Package. (Loading rate - Rs 50,000.00 per MT).	
<b>3.0</b>	<b>Total price for evaluation (1.0 + 2.0).</b>	
<b>Note</b>		
1.0	Bidder to note that while evaluation will be done on total price at sl no 3.0 above and should be complete in all respect for the full scope defined and considering all terms and conditions, order will be placed on the price at sl no 1.0 above. Furthermore, based on break-up of prices, furnished at respective schedules of this Volume-III A, separate orders will be placed.	
2.0	While total price at sl no 3.0 as per above will be considered for evaluation, bidder shall furnish further break-up of price in the following schedules.	
2.1	SCH-2 - Total price break-up into Fuel Oil Unloading & Storage System and Miscellaneous Tank System.	
2.2	SCH-3 - Fuel Oil Unloading & Storage System price break-up into supply and service part.	
2.3	SCH-4 - Miscellaneous Tank System price break-up into supply and service part.	
2.4	SCH-5 - Fuel Oil Unloading & Storage System supply price break-up.	
2.5	SCH-6 - Fuel Oil Unloading & Storage System service price break-up.	
2.6	SCH-7 - Miscellaneous Tank System supply price break-up.	
2.7	SCH-8 - Miscellaneous Tank System service price break-up.	
2.8	SCH-9 - Unit Rate item for Fuel Oil Unloading & Storage System.	
3.0	Any item as per scope of work if not included in the price quoted above and shown separately will not be taken into cognizance and the offer shall be liable for rejection.	
4.0	Total price of 1.1 & 1.2 in SCH-2 should match with 3.0 above.	
5.0	Total price of 1.1.1 & 1.1.2 in SCH-3 should match with 1.1 in SCH-2.	

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	TOTAL QUOTED PRICE ( )
6.0	Total price of 1.2.1 & 1.2.2 in SCH-4 should match with 1.2 in SCH-2.	
7.0	Bidder shall note that VAT & Service Tax (On service part) shall be paid extra at actual as per tender provision. As such, bidder's price shall be exclusive of these 2 components and evaluation of bidders total price will be done on this basis.	
8.0	If freight component is not specifically indicated, 2 % of total amount will be considered as freight component against each item for further processing.	
9.0	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.	
10.0	Unit rates/ prices as above shall not be considered for evaluation. Unit rates/ prices for items shall be applied for addition/ deletion of scope and rates shall be valid through out the contract period, including extension.	
11.0	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.	
12.0	BHEL shall issue requisite document, if required, for imported items, limited to the CIF values furnished by bidder in the relevant schedule of this volume.	
13.0	Price format shall not be changed by bidder in any case, since it may lead to cancellation of bidder's offer.	

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-2 - FUEL OIL UNLOADING & STORAGE SYSTEM AND MISCELLANEOUS TANK SYSTEM PRICE BREAK-UP**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	TOTAL QUOTED PRICE ( )
<b>1.1</b>	<b>Fuel Oil Unloading &amp; Storage System</b>	
1.1.1	Total lumpsum price for supply part & service part together for design, engineering, manufacturing, inspection and testing, painting, supply/delivery duly packed at project site including freight, receipt, unloading, storage & handling at site, erection, commissioning, trial run, handing over to customer, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, including supply of consumables, start-up & commissioning spares, special tools & tackles for maintenance, for the total scope defined in technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for Fuel Oil Unloading & Storage System.	
1.1.2	Total loading value for steel plate (to be supplied by BHEL free of cost as per tender) for Fuel Oil Unloading & Storage System. (Loading rate - Rs 50,000.00 per MT).	
1.1.3	SUB-TOTAL (1.1)	
<b>1.2</b>	<b>Miscellaneous Tank System</b>	
1.2.1	Total lumpsum price for supply part & service part together for design, engineering, manufacturing, inspection and testing, painting, supply/delivery duly packed at project site including freight, receipt, unloading, storage & handling at site, erection, commissioning, trial run, handing over to customer, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, including supply of consumables, start-up & commissioning spares, special tools & tackles for maintenance, for the total scope defined in technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for Miscellaneous Tank System (1 no Condensate Storage Tank).	
1.2.2	Total loading value for steel plate (to be supplied by BHEL free of cost as per tender) for Miscellaneous Tank System (1 no Condensate Storage Tank). (Loading rate - Rs 50,000.00 per MT).	
1.2.3	SUB-TOTAL (1.2)	
<b>1.3</b>	<b>TOTAL (1.1+1.2)</b>	

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-3 - FUEL OIL UNLOADING & STORAGE SYSTEM PRICE BREAK-UP**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUOTED PRICE (₹)				
		BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL
<b>Break-up of price at 1.1.1 in SCH-2</b>						
1.1.1.1	Total lumpsum price for supply part for design, engineering, manufacturing, inspection and testing, painting, supply/ delivery duly packed at project site including freight, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, including supply of consumables, start-up & commissioning spares, special tools & tackles for maintenance, for the total scope defined in technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for Fuel Oil Unloading & Storage System.					
1.1.1.2	Total lumpsum price for service part for receipt, unloading, storage & handling at site, erection, commissioning, trial run, handing over to customer, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, for the total scope defined in technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for Fuel Oil Unloading & Storage System.		NA			
<b>TOTAL</b>						

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-4 - MISCELLANEOUS TANK SYSTEM PRICE BREAK-UP**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUOTED PRICE (₹)				
		BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL
<b>Break-up of price at 1.2.1 in SCH-2</b>						
1.2.1.1	Total lumpsum price for supply part for design, engineering, manufacturing, inspection and testing, painting, supply/ delivery duly packed at project site including freight, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, including supply of consumables, start-up & commissioning spares, special tools & tackles for maintenance, for the total scope defined in technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for Miscellaneous Tank System (1 no Condensate Storage Tank).					
1.2.1.2	Total lumpsum price for service part for receipt, unloading, storage & handling at site, erection, commissioning, trial run, handing over to customer, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, for the total scope defined in technical specification and terms & conditions of tender, taking into account all clarifications, confirmations and agreements till date for Miscellaneous Tank System (1 no Condensate Storage Tank).		NA			
<b>TOTAL</b>						

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-5 - FUEL OIL UNLOADING & STORAGE SYSTEM SUPPLY PRICE BREAK-UP**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUOTED AMOUNT (₹)				
		BASIC	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL
<b>Price break-up of 1.1.1.1 of SCH-3.</b>						
1.1.1.1.1	Accessories for LVFO storage tank excluding insulation (Steel plate will be supplied by BHEL free of cost as per tender).					
1.1.1.1.2	Accessories for LDO storage tank (Steel plate will be supplied by BHEL free of cost as per tender).					
1.1.1.1.3	Drain Oil tank Storage with all accessories.					
1.1.1.1.4	Condensate flash tanks with all accessories.					
1.1.1.1.5	LVFO unloading hoses with all accessories.					
1.1.1.1.6	Steam hoses with all accessories.					
1.1.1.1.7	Condensate hoses with all accessories.					
1.1.1.1.8	LDO unloading hoses with all accessories.					
1.1.1.1.9	LVFO fuel oil pipes & fittings					
1.1.1.1.10	LDO fuel oil pipes & fittings.					
1.1.1.1.11	Steam & condensate pipes & fittings.					
1.1.1.1.12	Air pipes, oily water (bilge water) pipes, condensate pipes & various fittings.					
1.1.1.1.13	Valves in LVFO oil lines					
1.1.1.1.14	Valves in LDO oil lines.					
1.1.1.1.15	Valves in steam & condensate lines.					
1.1.1.1.16	Valves in water lines.					
1.1.1.1.17	Valves in air lines.					
1.1.1.1.18	Steam traps and strainers.					
1.1.1.1.19	LVFO unloading pumps.					
1.1.1.1.20	LVFO unloading pump motors.					
1.1.1.1.21	LVFO unloading pump duplex strainers.					
1.1.1.1.22	LDO unloading pumps					
1.1.1.1.23	LDO unloading pump motors					
1.1.1.1.24	LDO unloading pump duplex strainers					
1.1.1.1.25	Floor coil heater in LVFO storage tank.					
1.1.1.1.26	Suction Heater.					

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUOTED AMOUNT (₹)				
		BASIC	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL
1.1.1.1.27	Drain oil tank with floor coil heater excluding insulation.					
1.1.1.1.28	Pressure reducing stations complete in all respect.					
1.1.1.1.29	Drain oil pump motor set complete in all respect.					
1.1.1.1.30	Sump pump motor set in pump house complete in all respect.					
1.1.1.1.31	Sump pump motor set in water pit of OWS complete in all respect.					
1.1.1.1.32	Oil pit pump motor set in OWS complete in all respect.					
1.1.1.1.33	Control valves.					
1.1.1.1.34	Instruments.					
1.1.1.1.35	PLC based control system.					
1.1.1.1.36	Insulation & cladding.					
1.1.1.1.37	Equipments and accessories of OWS including pipings, bends, valves, heating arrangements, skimmer pipe, butterfly valves, rung ladder etc.					
1.1.1.1.38	All flanges, counter flanges, nuts,boths, washers, structural steel to be used for pipe support etc.					
1.1.1.1.39	Any other item not indicated above, but required to complete fuel oil system package as per system requirements.					
1.1.1.1.40	Total price for special tools & tackles for maintenance. (Bidder to submit item-wise un-priced break-up in techno-commercial offer and price offer)					
1.1.1.1.41	Total price for start-up and commissioning spares. (Bidder to submit item-wise un-priced break-up in techno-commercial offer and price offer)					
<b>TOTAL</b>						

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-6 - FUEL OIL UNLOADING & STORAGE SYSTEM SERVICE PRICE BREAK-UP**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUOTED AMOUNT ( <sup>₹</sup> )
<b>Price break-up of 1.1.1.2 of SCH-3.</b>		
1.1.1.2.1	Fabrication, erection etc of LVFO storage tank with all accessories excluding insulation (Steel plate will be supplied by BHEL free of cost as per tender).	
1.1.1.2.2	Fabrication, erection etc of LDO storage tank with all accessories (Steel plate will be supplied by BHEL free of cost as per tender).	
1.1.1.2.3	Drain oil tank Storage tank with all accessories	
1.1.1.2.4	Condensate flash tanks with all accessories.	
1.1.1.2.5	LVFO unloading hoses with all accessories.	
1.1.1.2.6	Steam hoses with all accessories.	
1.1.1.2.7	Condensate hoses with all accessories.	
1.1.1.2.8	LDO unloading hoses with all accessories	
1.1.1.2.9	LVFO fuel oil pipes & fittings	
1.1.1.2.10	LDO fuel oil pipes & fittings	
1.1.1.2.11	Steam & condensate pipes & fittings.	
1.1.1.2.12	Air pipes, oily water (bilge water) pipes, condensate pipes & various fittings.	
1.1.1.2.13	Valves in LVFO oil lines	
1.1.1.2.14	Valves in LDO oil lines	
1.1.1.2.15	Valves in steam & condensate lines.	
1.1.1.2.16	Valves in water lines.	
1.1.1.2.17	Valves in air lines.	
1.1.1.2.18	Steam traps and strainers.	
1.1.1.2.19	LVFO unloading pumps.	
1.1.1.2.20	LVFO unloading pump motors.	
1.1.1.2.21	LDO Unloading pumps	
1.1.1.2.22	LDO Unloading pump motors	
1.1.1.2.23	LVFO unloading pump duplex strainers.	
1.1.1.2.24	LDO Unloading pump duplex strainers	
1.1.1.2.25	Floor coil heater in LVFO storage tank.	
1.1.1.2.26	Suction Heater.	

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUOTED AMOUNT ( )
1.1.1.2.27	Drain oil tank with floor coil heater excluding insulation.	
1.1.1.2.28	Pressure reducing stations complete in all respect.	
1.1.1.2.29	Drain oil pump motor set complete in all respect.	
1.1.1.2.30	Sump pump motor set in pump house complete in all respect.	
1.1.1.2.31	Sump pump motor set in water pit of OWS complete in all respect.	
1.1.1.2.32	Oil pit pump motor set in OWS complete in all respect.	
1.1.1.2.33	Control valves.	
1.1.1.2.34	Instruments.	
1.1.1.2.35	PLC based control system.	
1.1.1.2.36	Insulation & cladding.	
1.1.1.2.37	Equipments and accessories of OWS including pipings, bends, valves, heating arrangements, skimmer pipe, butterfly valves, rung ladder etc.	
1.1.1.2.38	All flanges, counter flanges, nuts,boths, washers, structural steel to be used for pipe support etc.	
1.1.1.2.39	Painting including supply of paint.	
1.1.1.2.40	Structures work including supply of structural steel.	
1.1.1.2.41	Minor civil works.	
1.1.1.2.42	Fees for approval from all statutory bodies.	
1.1.1.2.43	Any other item not indicated above, but required to complete fuel oil system as per system requirements.	
<b>TOTAL</b>		

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-7 - MISCELLANEOUS TANK SUPPLY PRICE BREAK-UP**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUANTITY	QUOTED AMOUNT (₹)					
			BASIC	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL	
<b>Price break-up of 1.2.1.1 of SCH-4.</b>								
1.2.1.1.1	All accessories excluding insulation (Steel plate will be supplied by BHEL free of cost as per tender).	1	LOT					
1.2.1.1.2	All structures including hand-railings, staircase etc for the tank.	1	LOT					
1.2.1.1.3	Total number of valves required for the tank.	1	LOT					
1.2.1.1.4	Total length of the piping for the tank .	1	LOT					
1.2.1.1.5	Total no of level gauges required for the tank.		LOT					
1.2.1.1.6	NaOH breathers (Breath in and breath out) for the tank.	1	LOT					
1.2.1.1.7	Seal pots for the tank.	1	LOT					
1.2.1.1.8	Commissioning spares as per following.							
1.2.1.1.8.1	CAF gasket of size 1.5 m x 1.5 m x 3 mm thick.	1	NO					
1.2.1.1.8.2	Nuts, bolts & washers of each size (nos of bolts, nuts & washers as required for each nozzle) as per approved drawing.	1	LOT					
1.2.1.1.9	Total price for special tools & tackles for maintenance. (Bidder to submit item-wise un-priced break-up in techno-commercial offer and price offer)	1	LOT					
1.2.1.1.9	Any other Item required for successful commissioning of the tank.	1	LOT					
<b>TOTAL</b>								

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-8 - MISCELLANEOUS TANK SERVICE PRICE BREAK-UP**

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUANTITY	QUOTED AMOUNT ( )
<b>Price break-up of 1.2.1.2 of SCH-4.</b>			
1.2.1.2.1	Fabrication, erection etc of storage tank with all accessories excluding insulation (Steel plate will be supplied by BHEL free of cost as per tender).	1	LOT
1.2.1.2.2	All structures including hand-railings, staircase etc for the tank.	2	LOT
1.2.1.2.3	Total number of valves required for the tank.	3	LOT
1.2.1.2.4	Total length of the piping for the tank .	4	LOT
1.2.1.2.5	Total no of level gauges required for the tank.	5	LOT
1.2.1.2.6	NaOH breathers (Breath in and breath out) for the tank.	6	LOT
1.2.1.2.7	Seal pots for the tank.	7	LOT
1.2.1.2.8	Painting for the tank including supply of paint.	8	LOT
<b>TOTAL</b>			

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-9 - UNIT RATE ITEM (APPLICABLE FOR FUEL OIL UNLOADING & STORAGE SYSTEM)**

SL NO	DESCRIPTION OF ITEM	QUOTED UNIT RATES (Rs)						
		SUPPLY PART					SERVICE PART	TOTAL (SUPPLY & SERVICE PARTS)
		BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL		
1.0	Drain oil tank, 20 m3.							
2.0	Condensate flash tank, 2 metres internal diameter and 2 metres height.							
3.0	Condensate flash tank, 1 metres internal diameter and 1 metres height.							
4.0	Floor coil heaters.							
5.0	Suction heater.							
6.0	Flame arrestor.							
7.0	Steam tracers per metre.							
8.0	Aux steam PR valve.							
9.0	FCH control valve.							
10.0	SH control valve.							
11.0	Steam traps station.							
12.0	LVFO unloading pump, 100 m3/ hr (twin screw) without motor.							
13.0	Vertical single screw pump set, 5 m3/ hr without motor.							
14.0	Sump pump set, 10 m3/ hr without motor.							
15.0	Motor for LVFO unloading pump.							
16.0	Motor for vertical single screw pump of capacity 5 m3/ hr.							
17.0	Motor for sump pump.							
18.0	Strainer for LVFO unloading pump.							
19.0	Hose for LVFO unloading system.							
20.0	Hose for steam.							
21.0	Hose for condensate.							
22.0	Pipes for oil service per metre basis.							
22.1	450 NB.							
22.2	400 NB.							

SL NO	DESCRIPTION OF ITEM	QUOTED UNIT RATES (Rs)					
		SUPPLY PART				SERVICE PART	TOTAL (SUPPLY & SERVICE PARTS)
		BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT		
22.3	350 NB.						
22.4	300 NB.						
22.5	250 NB.						
22.6	200 NB.						
22.7	150 NB.						
22.8	100 NB.						
22.9	80 NB.						
22.10	50 NB.						
22.11	40 NB.						
22.12	25 NB.						
23.0	Pipes for steam & condensate service per metre basis.						
23.1	250 NB.						
23.2	200 NB.						
23.3	150 NB.						
23.4	100 NB.						
23.5	80 NB.						
23.6	50 NB.						
23.7	25 NB.						
24.0	Pipes for bilge water service per metre basis.						
24.1	150 NB.						
24.2	100 NB.						
24.3	80 NB.						
24.4	50 NB.						
24.5	25 NB.						
25.0	Gate valves.						
25.1	400 NB.						
25.2	350 NB.						
25.3	300 NB.						
25.4	250 NB.						

SL NO	DESCRIPTION OF ITEM	QUOTED UNIT RATES (Rs)					
		SUPPLY PART				SERVICE PART	TOTAL (SUPPLY & SERVICE PARTS)
		BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT		
25.5	200 NB.						
25.6	150 NB.						
25.7	100 NB.						
25.8	80 NB.						
25.9	50 NB.						
25.10	40 NB.						
25.11	25 NB.						
26.0	Plug/ ball valves.						
26.1	350 NB.						
26.2	300 NB.						
26.3	250 NB.						
26.4	200 NB.						
26.5	150 NB.						
26.6	100 NB.						
26.7	80 NB.						
26.8	50 NB.						
26.9	40 NB.						
26.10	25 NB.						
27.0	Globe valve.						
27.1	200 NB.						
27.2	150 NB.						
27.3	100 NB.						
27.4	80 NB.						
27.5	50 NB.						
27.6	40 NB.						
27.7	25 NB.						
28.0	Check valves.						
28.1	350 NB.						
28.2	300 NB.						
28.3	250 NB.						

SL NO	DESCRIPTION OF ITEM	QUOTED UNIT RATES (Rs)						
		SUPPLY PART					SERVICE PART	TOTAL (SUPPLY & SERVICE PARTS)
		BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL		
28.4	200 NB							
28.5	150 NB.							
28.6	100 NB.							
28.7	80 NB.							
28.8	50 NB.							
28.9	25 NB.							
29.0	Instruments & control.							
29.1	Pressure gauge.							
29.2	Differential pressure gauge.							
29.3	Differential pressure switch.							
29.4	Pressure switch.							
29.5	Level indicator.							
29.6	Level switch.							
29.7	Temperature indicator.							
29.8	Temperature switch.							
29.9	Temperature element.							
29.10	Level transmitter.							
29.11	PLC based control system.							
30.0	Paints.							
30.1	Internal per metre square basis for storage tank.							
30.2	External per metre square basis for storage tank.							
31.0	Insulation per square metre basis.							
32.0	Cladding per square metre basis.							
33.0	Pneumatically operated valves.							
33.1	350 NB.							
33.2	300 NB.							
33.3	250 NB.							
33.4	200 NB.							
33.5	150 NB.							
33.6	100 NB.							

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

**Design, engineering, manufacturing, supply, erection, commissioning etc of Fuel Oil Unloading & Storage System and Miscellaneous Tank System (1 no Condensate Storage Tank) Package for 1x250 MW unit at DPL, Durgapur, WB.**

**TENDER NO - PSER:SCT:DPL-M1283:11**

**SCH-10 - UNIT RATE ITEM (APPLICABLE FOR MISCELLANEOUS TANK SYSTEM)**

SL NO	DESCRIPTION OF ITEM	QUOTED UNIT RATES (Rs)						
		SUPPLY PART					SERVICE PART	TOTAL (SUPPLY & SERVICE PARTS)
		BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL		
1.0	SS gate/ globe valves for each size (indicate price size wise).							
1.1	200 NB.							
1.2	100 NB.							
1.3	80 NB.							
1.4	50 NB.							
1.5	25 NB.							
1.6	15 NB.							
2.0	SS root valve for each size (indicate price size wise).							
2.1	25 NB.							
3.0	SS pipes for each size (indicate price size wise).							
3.1	250 NB.							
3.2	200 NB.							
3.3	150 NB.							
3.4	100 NB.							
3.5	80 NB.							
3.6	50 NB.							
3.7	25 NB.							
3.8	15 NB.							
4.0	Level gauge including erection material for tank.							
5.0	Cost of painting per metre square including surface preparation as per painting specification (inside).							
6.0	Cost of painting per metre square including surface preparation as per painting specification (outside).							
7.0	Cost of painting per metre square including surface preparation as per painting specification (underneath).							
8.0	Fabrication cost per tonnes.							



**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	Design, engineering, manufacturing, supply/delivery, erection, commissioning, trial run, handing over to customer etc of Fuel oil unloading & storage system and Miscellaneous tank system (1 no. condensate storage tank) Package for 1x250 MW Unit at DPL, Durgapur, WB.	
Ref	1.0	Tender no PSER:SCT:DPL-M1283:11
	2.0	BHEL's NIT, vide reference no PSER:SCT:DPL-M1283:2628, dated 08-12-2011
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:DPL-M1283:TCN-01, dated 27-12-2011
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:DPL-M1283:TCN-02, dated 07-01-2012
	5.0	BHEL's TCN-03, vide reference no PSER:SCT:DPL-M1283:TCN-03, dated 16-01-2012.
	6.0	BHEL's TCN-04, vide reference no PSER:SCT:DPL-M1283:TCN-04, dated 17-01-2012
	7.0	BHEL's TCN-05, vide reference no PSER:SCT:DPL-M1283:TCN-05, dated 20-01-2012
	8.0	All other pertinent issues till date.

Dear Sirs,

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

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

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

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

Thanking you,

Yours faithfully,

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