



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

( भारत सरकार का उपक्रम )

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

**TCN - 07**

Ref: PSER:SCT:SAL-M1893:TCN-07

Date: 06-06-2018

Sub	Tender change notice (TCN) 07	
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	BHEL's TCN-03, vide reference no PSER:SCT:SAL-M1893:TCN-03, Dated 07-05-2018
	6.0	BHEL's TCN-04, vide reference no PSER:SCT:SAL-M1893: TCN-04, Dated 17-05-2018
	7.0	BHEL's TCN-05, vide reference no PSER:SCT:SAL-M1893:TCN-05, Dated 21-05-2018
	8.0	BHEL's TCN-06, vide reference no PSER:SCT:SAL-M1893:TCN-06, Dated 30-05-2018
	9.0	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 Clarification to bidder's query as per attached Annexure-A.
- 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	BHEL's TCN-03, vide reference no PSER:SCT:SAL-M1893:TCN-03, Dated 07-05-2018
	6.0	BHEL's TCN-04, vide reference no PSER:SCT:SAL-M1893:TCN-04, Dated 17-05-2018
	7.0	BHEL's TCN-05, vide reference no PSER:SCT:SAL-M1893:TCN-05, Dated 21-05-2018
	8.0	BHEL's TCN-06, vide reference no PSER:SCT:SAL-M1893:TCN-06, Dated 30-05-2018
	9.0	BHEL's TCN-07, vide reference no PSER:SCT:SAL-M1893:TCN-07, Dated 06-06-2018
	10.0	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

**ANNEXURE-A TO TCN-07**

**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**

<b>Sr.No.</b>	<b>Section/Page no. / Clause</b>	<b>Statement of the referred clause</b>	<b>Clarification/ Confirmation required</b>	<b>Clarifications on BHEL TCN 02</b>	<b>BHEL reply</b>
1	Volume III, Price schedule , Rev -0	Schedule - 3 - Price breakup (supply)	From the given tender we are not getting clarity regarding the scope i.e; what works are already done and what are the balance works to be done by bidder. Hence we are quoting all the items which are given in the BOQ ( supply) in the price schedule. Please confirm.	For Schedule - 3 (supply), We have considered the sizes and quantities strictly as given in TCN-2, Volume III, Price schedule , Rev -1 only. Any change in size or quantity will leads to price implication.  For Schedule - 4 (Services), From the given TCNs (01,02,03) we did not get any clarity regarding the balance erection and commissioning works to be done by us. Kindly furnish the list of works to be carried out with quantity for each line item of SI.No.1 to 11..	Tentative BOQ is furnished along with the tender. However, bidder is required to visit site as per S. No. 2 of Special Conditions of contract, to assess the material requirement'.
2	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.2	1.2. OIL PIPINGS ( CS Seamless Pipe as per ASTM A 106 / MS ERW Pipe as per API 5L) 1.2.1 size - 150 NB : 210 mtrs	From the referred price schedule (BOQ) we are considering CS Seamless Pipe as per ASTM A 106 material and the thickness considering as given in the referred BHEL drawing. Please confirm.  Also we are considering the referred piping as a insulated pipe and considering the painting as given in the cleaning and painting referred clause.	In TCN-2, Volume III, Price schedule , Rev -1/ SI.No. 1.2.1, for oil pippigs, thickness is given in two related drawings in which they are contradicting each other. However we are considering thickness for API 5L ERW / AST MA 106 pipe as per given in dwg no. 4610-101-PEM-PVM-Y-015. Please confirm.  Also Kindly clarify fittings, supports and paintings for oil piping and steam and condensate piping will be in whose scope. If painting is in our scope kindly provide the painting specification.	Thickness of pipe has to be considered as per referred BHEL doc. No. 4610-101-PEM-PVM-U-007 (as thickness given in doc. No. 4610-101-PEM-PVM-Y-015 is minimum thickness)
	BHEL dwg no. TP-DG-306-104-3754 Rev 03 / Scheme of fuel oil system.	Notes - 6. Pipe schedule : pipe specification - SA 210 Gr. A1 or <b>SA 106 Gr.B and thickness as below.....</b>			
	Vol II, Tech spec / sub sec-II M-07 / page no. 88 of 479 / clause no. 3.00.00	Cleaning and painting	If it is a un insulated pipe, then we are considering uninsulated tank painting specification for uninsulated piping also as the specification for uninsulated piping is not given. Please confirm.		Painting of fittings, supports and oil, steam & condensate piping shall be in bidders scope. Please refer doc. No. 4610-101-PEM-PVM-X-002 regarding painting
3	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.4.1	Basket Type Strainer Size 150 NB for HFO Storage Tank - 1 no.	Please provide the P&ID for HFO system as it is missig in the given tender. As given in the BOQ we are considering only one number basket type strainer for HFO system. We understood that remaining strainers for HFO unloading are already existing. Hence kindly share the vendor details, technical specification and data sheet of the existing strainer.	In TCN 03, we have received the strainers data sheets. we noted the same. However please clarify whether we have consider the particular make(vendor) given in the datasheet or we can consider any make given in the sub vendor list. (SAL-M1893-TCN-01-4610-110-QVM-W-002-03 SUB VENDORS LIST).  Also we have not received HFO, Steam and Condensate PIDs. Please provide the same for our reference.	Bidder to note that since part quantities of these items have already been supplied at site, same make (as given in attached documents) may only be supplied for remaining quantity (under scope of this tender) to ensure interchangability.

ANNEXURE-A TO TCN-07					
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					
Sr.No.	Section/Page no. / Clause	Statement of the referred clause	Clarification/ Confirmation required	Clarifications on BHEL TCN 02	BHEL reply
4	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.4.2	Basket Type Strainer Size 150 NB for LDO Storage Tank - 1 no.	As given in the BOQ we are considering only one number basket type strainer for LDO storage tank. We understood that remaining 4 no. strainers for LDO unloading are already existing. Hence kindly share the vendor details, technical specification and data sheet of the existing strainer.		P&IDs for HFO and Steam & Condensate system already given.
5	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.4.3	Basket Type Strainer Size 100 NB for LDO Transfer pump - 2 nos.	Kindly provide the specification and data sheet for the referred basket type strainer. Also provide the sub vendor list for the same.		Strainer details have already been provided. Please refer doc. No. 4610-101-PEM-PVM-Y-023 & 4610-101-QVM-Q-046.
6	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.4.4, 1.4.5	Oil hoses	From the referred price schedule (BOQ) we understood that we have to supply only oil hoses. steam and condensate hoses are already existing. Please confirm.	In TCN 03, we have received oil and steam hoses data sheets. we noted the same. However please clarify whether we have to consider the particular make(vendor) given in the datasheet or we can consider any make of our own as no vendor list is given.	Bidder to note that since part quantities of these items have already been supplied at site, same make (as given in attached documents) may only be supplied for remaining quantity (under scope of this tender) to ensure interchangeability.
7	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.5 (1.5.1 to 1.5.4)	Valves (for all Services)	We are considering the valves for all services as given in the BOQ. We understood that remaining valves coming in various systems like HFO, LDO, Steam, condensate, drain and OWS are already existing. Hence kindly share the vendor details, technical specification and data sheet of the existing valves.	In TCN 03, we have received ball, gate, globe and check valves data sheets. we noted the same. However please clarify whether we have to consider the particular make(vendor) given in the datasheet or we can consider any make given in the sub vendor list.  Also in TCN-2, Volume III, Price schedule , Rev -1/ Sl.No. 1.5.2.3 to 1.5.2.5 for actuators related drgs number is given as PE-V0-306-166-A201 where as in the data sheet the drg no. is given as PE-V0-306-166-A125. However we are considering actuator details as given in PE-V0-306-166-A125. Please confirm.	Bidder to note that since part quantities of these items have already been supplied at site, same make (as given in attached documents) may only be supplied for remaining quantity (under scope of this tender) to ensure interchangeability.  Please refer doc. no. 4610-101-PEM-PVE-Y-002,

**ANNEXURE-A TO TCN-07**

**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**

<b>Sr.No.</b>	<b>Section/Page no. / Clause</b>	<b>Statement of the referred clause</b>	<b>Clarification/ Confirmation required</b>	<b>Clarifications on BHEL TCN 02</b>	<b>BHEL reply</b>
8	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.6 (1.6.1, 1.6.2)	Dirty Oil Pump (capacity 5 cum/hr) - 1 no. HFO/HPS Drain Pumps (capacity 10 cum/hr) - 1 no	Please provide the drain oil system, OWS system P&IDs for our reference as they are missig in the given tender.	In TCN 03, we have received drain oil and dirty oil data sheets. we noted the same. However please clarify whether we have to consider the particular make(vendor) given in the datasheet or we can consider any make given in the sub vendor list.  Also provide the drain oil system, OWS system P&IDs for our reference as they are missig in the given tender and TCNs.	Bidder to note that since part quantities of these items have already been supplied at site, same make (as given in attached documents) may only be supplied for remaining quantity (under scope of this tender) to ensure interchangability.  Drain oil and OWS system is covered in HFO P&ID only. Please refer the same.
9	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.7 (1.7.1, 1.7.6.2)	C& INSTRUMENTS	We are considering the instruments for all systems as given in the BOQ. We understood that remaining instruments coming in these systems are already existing. Hence kindly share the vendor details, technical specification and data sheet of the existing instruments.	In TCN 03, we have received all the required instruments data sheets. we noted the same. However please clarify whether we have to consider the particular make(vendor) given in the datasheet or we can consider any make given in the sub vendor list.	Bidder to note that since part quantities of these items have already been supplied at site, same make (as given in attached documents) may only be supplied for remaining quantity (under scope of this tender) to ensure interchangability.
10	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.7.7	Control valve 1.7.7.1 modulating type - 3 nos 1.7.7.2 On / Off type - 7 nos	Kindly provide the sizes to be considered for the control valves. Also clarify for which these modulating and on/off type control valves are coming. Also provide the sub vendor list for the same.	In TCN 03, we have received control valve data sheets. we noted the same. However TCN-2, Volume III, Price schedule , Rev -1/ Sl.No. 1.7.7.2 calls for ON/OFF type control valve. Please clarify whether given on/off type is for FCH of HFO storage tank (40NB) or FCH of Drain oil tank (25NB). Also clarify whether we have to consider the particular make(vendor) given in the datasheet or we can consider any make given in the sub vendor list.	As per the tender specification.
11	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .1.7.7.3	Pressure reducing station	Please provide the steam flow rate (tonnage), Inlet temperature, out let temperature, steam inlet presuure to be considered for Pressure reducing stations.	In TCN 03, we have received PRS data sheets. we noted the same. Please clarify whether we have to consider the particular make(vendor) given in the datasheet or we can consider any make given in the sub vendor list.	Bidder to note that since part quantities of these items have already been supplied at site, same make (as given in attached documents) may only be supplied for remaining quantity (under scope of this tender) to ensure interchangability.

**ANNEXURE-A TO TCN-07**

**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**

Sr.No.	Section/Page no. / Clause	Statement of the referred clause	Clarification/ Confirmation required	Clarifications on BHEL TCN 02	BHEL reply
12	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / clause no .2.0 (2.1 to 2.4)	Misc tanks - Over head condensate surge tank	Please provide the GA drawing for over head condensate surge tank. Also provide the specification, data sheets and vendor list for the referred items / equipments related to condensate surge tank (sl.no. 2.1 to 2.4) as the same is not given in the tender.	<p>TCN-2, Volume III, Price schedule , Rev -1/ Sl.No.2.1 (Misc tanks) calls for MS plates for 3 nos overhead condensate surge tank and related drg no. is given as 4610-101-PEM-PVM-B-035. The referred drawing is missing in the given TCN. Please provide the same.</p> <p>Also Price schedule , Rev -1/ Sl.No. 2.3.1 and 2.3.2 calls for SS pipes and related drgs no is given as 4610-101-PEM-PVM-U-007, 4610-101-PEM-PVM-Y-015. In the referred drg nos data sheet or specification for SS pipes are not given. Please check and provide the same.</p> <p>Price schedule , Rev -1/ Sl.No. 2.3.3 calls for CS Seamless Pipe ASTM A 106 Size 150 NB. Please clarify whether the thickness to be considered from which service i.e; oil or steam and condensate.</p>	<p>Doc. No. 610-101-PEM-PVM-B-035 is attached.</p> <p>For SS Pipe, following details shall be followed: "Stainless Steel to SA312 TP 304 50NB &amp; Below: SCH 40, Seamless 65NB &amp; Above: SCH 10, ERW Bevel Ends"</p> <p>Thickness of the pipe shall be considered as per steam &amp; condensate service.</p>
13	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply)		<p>The items / equipments like floor coil heater, suction heater, OWS, pumps for HFO, LDO UL, LDO transfer , sump pumps, water recovery pumps, steam traps etc are not covered in the given price schedule (BOQ). We presume that these all are already existng and we have not considered the same. Please confirm.</p> <p>Also we understood that along with HFO and LDO storage tanks, Drain oil tank, Oil water separator is also existng as the same is not covered in the price schedule (BOQ). Please confirm.</p>	As per revised BOQ and TCNs we noted that the referred items / equipments are in the purchasers scope.	As per tender specifications & scope.

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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					
Sr.No.	Section/Page no. / Clause	Statement of the referred clause	Clarification/ Confirmation required	Clarifications on BHEL TCN 02	BHEL reply
14	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) / Clause no. 4	Mandatory spares 4.2 Floor coil heater for 4.2.1 H.F.O. Storage Tank - 296 mtrs 4.2.2 Oil water separator - 1.5 mtrs	Kindly provide the size to be consider for referred floor coil heaters.  Please provide the P&ID for steam and condensate system which is missig in the given tender.	TCN-2, Volume III, Price schedule , Rev -1/ Sl.No.4.2.2 calls for FCH for OWS pit and related drg no. is given as 4610-101-PEM-PVM-B-010. In the referred drawing size of FCH for OWS pit is not given. Please provide the same.	FCH for OWS pit is not applicable.
15	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply)	Note - Flanges,Gaskets & Fastners (like bolts,nuts,stud, 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 <b>review of the balance works.</b>	As we have no clarity regarding the scope i.e; what works are already done and what are the balance works, hence we are quoting all the items which are given in the BOQ ( supply) in the price schedule. Please confirm.	We have considered the sizes and quantities strictly as given in TCN-2, Volume III, Price schedule , Rev -1 only. Any change in size or quantity will leads to price implication.	Tentative BOQ is furnished along with the tender. However, bidder is required to visit site as per S. No. 2 of Special Conditions of contract, to assess the material requirement'.
16	Volume III / Price schedule , Rev -0 / Schedule - 4 - Price breakup (Service) / Clause no. 1 to 3, 5,6	Completion of restoration and balance erection and commissioning.....	Kindly list out the balance erection and commissioning works to be done by us as there is no clarity regarding this in the given tender specification, layouts and drawings. Please clearly mark the scope regarding what we have to erect and what is already existing in the given layouts and P&IDS .	From the given TCNs (01,02,03), for schedule 4 ( services, sl.no. 1 to 11) we did not get any clarity regarding the balance erection and commissioning works to be done by us.	Tentative BOQ is furnished along with the tender. However, bidder is required to visit site as per S. No. 2 of Special Conditions of contract, to assess the material requirement'.
17	Volume III / Price schedule , Rev -0 / Schedule - 3 - Price breakup (supply) and Schedule - 4 - Price breakup (Service)		The scope for Electricals like panels, cables, earthing etc. and control system for instruments are not covered in the given price schedule (BOQ). We presume that these all are already existing and we have not considered the same. Please confirm. Also thermal insulation for pipes and tanks are also not covered in the given price schedule (BOQ). Hence we understood that complete insulation is available for pipes and tanks. Please confirm.	From TCN-2, Volume III, Price schedule , Rev -1, BOQ for the referred items are not given. Hence we confirm that these all are in the purchaser's scope of supply.  Regarding thermal insulation, we confirm that complete insulation is available for pipes and tanks as the same is not projected in the given revised BOQ.	Tentative BOQ is furnished along with the tender. However, bidder is required to visit site as per S. No. 2 of Special Conditions of contract, to assess the material requirement'.