



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 05

Ref: PSER:SCT:SDG-C2137:TCN-05

Date: 03-03-2022

Sub	Tender Change Notice (TCN) – 05.	
Job	Construction of 01 no. 275 M height RCC wet chimney with one(1) internal steel flue, having minimum 38 mm thick Borosilicate lining on internal surface of steel flue (excluding pile & pile cap) at 1x660 MW, Unit no. 5, WBPDCS Sagardighi TPP Extension Project, West Bengal.	
Ref	1.0	Tender no PSER:SCT:SDG-C2137:22.
	2.0	BHEL's NIT, vide reference no PSER:SCT:SDG-C2137:8974, Date: 10-02-2022.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:SDG-C2137:TCN-01, Date: 15-02-2022.
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:SDG-C2137:TCN-02, Date: 17-02-2022.
	5.0	BHEL's TCN-03, vide reference no PSER:SCT:SDG-C2137:TCN-03, Date: 19-02-2022.
	6.0	BHEL's TCN-04, vide reference no PSER:SCT:SDG-C2137:TCN-04, Date: 01-03-2022.
	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 the offer.

1. Due date of submission of offer is extended from 03-03-2022 to **05-03-2022 (13-00 hrs. IST)**. Bidders are requested to submit their offer by extended due date positively.
2. Clarification of bidder's queries attached vide Annexure-A to TCN-05.
3. Revision/ Modification is attached vide Annexure-B to TCN-05.
4. Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
5. 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 : (033) 2339-8000/ 2339 8231

ANNEXURE-A TO TCN-05				
JOB: Construction of 01 no. 275 M height RCC wet chimney with one(1) internal steel flue, having minimum 38 mm thick Borosilicate lining on internal surface of steel flue (excluding pile & pile cap) at 1x660 MW, Unit no. 5, WBPCL Sagardighi TPP Extension Project, West Bengal.				
TENDER NO - PSER:SCT:SDG-C2137:22				
CLARIFICATION OF BIDDER'S QUERIES				
Sl. No	Reference clause of tender document	Existing Provision	Bidder's Query	BHEL's Clarification
1	Item SI no 14B of SCH-3 of Volume-III, Price Schedule	Transportation from Batching Plant and placing concrete work including cost of labour, materials (unless otherwise specified in BOQ/contract specification) and equipment for handling, transportation, placing, vibrating and curing (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like transit mixer, concrete pump etc. complete as per drawing, specifications and as per direction of engineer in charge for the following: (RMC WITH REQUIRED ADDITIVES/PLASTICIZER/SUPERPLASTICIZER SHALL BE PROVIDED BY BHEL AT BATCHING PLANT IN PROJECT PREMISES . TRANSPORTATION FROM THE BATCHING PLANT UP TO THE POURING POINT SHALL BE UNDER THE SCOPE OF CONTRACTOR)	Design Mix to be done as per chimney requirement & RMC should be suitable for Chimney Construction	Shall be as per tender provision
2	Item SI no 16 of SCH-3 of Volume-III, Price Schedule	Providing and placing steel reinforcements of High yield strength deformed bars of grade Fe500D conforming to IS 1786, for reinforced concrete work, at all levels, for all kinds of work including Chimney Shell, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, testing, transportation to & from stores etc., preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.	Providing and placing steel reinforcements of High yield strength deformed bars of grade Fe500D conforming to IS 1786, for reinforced concrete work, at all levels, for all kinds of work including Chimney Shell, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, testing, transportation to & from stores etc., preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.	Shall be as per tender provision
3	Item SI no B17 a i) of SCH-3 of Volume-III, Price Schedule	B17a) Design, Engineering, Approval of Drawings, Supply & Installation of Slipform system as per approved drawings duly reviewed & vetted by approved Third Party/Engineering for chimney or silo or any other shell/structure work at site including all safety requirements/arrangements, installation of all supporting items like structural members, winch arrangement, wooden platforms, jacks(including testing by Third Party) & jack-rods, lighting arrangements, panels, passenger cage, nuts/bolts, manpower, all other arrangements necessary for concreting & material shifting, providing spares for smooth operation, dismantling, etc all complete. Quantity measured for B17a) i), B17a) ii) & B17a) iii) shall be same and shall be restricted to the quantity measured in B17 a iii)	Design, Engineering, Approval of Drawings, Supply & Installation of Slipform system as per approved drawings duly reviewed & vetted by approved Third Party/Engineering for chimney or silo or any other shell/structure work at site including all safety requirements/arrangements, installation of all supporting items like structural members, winch arrangement, wooden platforms, jacks(including testing by Third Party) & jack-rods, lighting arrangements, panels, passenger cage, nuts/bolts, manpower, all other arrangements necessary for concreting & material shifting, providing spares for smooth operation, dismantling, etc all complete. Quantity measured for B17a) i), B17a) ii) & B17a) iii) shall be same and shall be restricted to the quantity measured in B17 a iii)	Shall be as per tender provision
		i) For Mobilisation & Installation(Payment of the total certified quantity of the shell shall be made for mobilisation of slipform only after start of successful slipping as certified by Engineer in charge.)	Please pay 50% on mobilization & 50% on installation	Shall be as per tender provision

ANNEXURE-A TO TCN-05				
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4	Item SI no A22 of SCH-3 of Volume-III, Price Schedule	Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel bolt assembly conforming to IS:2062 and grade 1 of IS:432 in concrete along with nuts, lock nuts (as per IS:1363, 1364 and IS:3138), washers, anchor plates, stiffner plates, protective tape, pipe sleeves, templates etc. including the cost of all labour, materials and equipments for setting materials in concrete, grouting, welding, bolts & bolting, expansion anchors, drilling, grinding, threading, cutting, etc. complete as per drawings and specification.	to be paid separately for expansion anchors	Shall be as per tender provision
5	Item SI no A26 of SCH-3 of Volume-III, Price Schedule	Transportation from store/plant gate, fabrication, erection at all levels, structural steel flues (liners) complete with all bends, flanges, stiffeners, all other flue attachments, support system, collars, access manholes and gas sampling ports alongwith gaskets and other accessories, staying system, connection design & preparation of fabrication drgs, and appointment of a seperate agency for review and approval of fabrication drgs in consultation with BHEL, including the cost of all labour, material and equipment, transporting, lifting to all heights, setting in place, cutting, grinding, drillings, bending, bolts and bolting, welding, preheating and post-heating for welding, testing, etc. complete as per drawings and specifications. (Payment Breakup - a) Fabrication- 50%, b) Erection-30% and c) Alignment including welding/bolting - 20%)	Transportation from store/plant gate, fabrication, erection at all levels, structural steel flues (liners) complete with all bends, flanges, stiffeners, all other flue attachments, support system, collars, access manholes and gas sampling ports along with gaskets and other accessories, staying system, connection design & preparation of fabrication drgs, and appointment of a seperate agency for review and approval of fabrication drgs in consultation with BHEL, including the cost of all labour, material and equipment, transporting, lifting to all heights, setting in place, cutting, grinding, drillings, bending, bolts and bolting, welding, preheating and post-heating for welding, testing, etc. complete as per drawings and specifications. (Payment Breakup - a) Fabrication- 50%, b) Erection-30% and c) Alignment including welding/bolting - 20%)	Shall be as per tender provision
6	Item SI no AA26 of SCH-3 of Volume-III, Price Schedule	Transportation from store and installation of closed cell borosilicate glass block lining system at all elevations, on ground or in erected position, with minimum 38 mm thick borosilicate glass block, adhesive membrane, grit blasted of substarte to a cleanliness of Sa 2 ½ finish and application of suitable primer, in supervision and as directed by and satisfaction of borosilicate glass block manufacturer, testing, ten years full replacement guarantee, getting approval of design/drawings and installation procedure from BHEL/customer etc all complete as per specification, drawings and as directed by the Engineer-in-charge including cost of skilled labour, material, tools & tackles, equipments etc all complete. Installation of borosilicate lining shall be done under controlled temperature and humidity conditions, as mentioned in specification, including providing all equipments required to create controlled temperature & humidity conditions inside chimney during installation, hot air blow cleaning of internal surface before application etc. all complete. [Borosilicate glass blocks, adhesive membrane with mixing machine, primer paint will be issued free of cost by BHEL]	Transportation from store and installation of closed cell borosilicate glass block lining system at all elevations, on ground or in erected position, with minimum 38 mm thick borosilicate glass block, adhesive membrane, grit blasted of substarte to a cleanliness of Sa 2 ½ finish and application of suitable primer, in supervision and as directed by and satisfaction of borosilicate glass block manufacturer, testing, ten years full replacement guarantee, getting approval of design/drawings and installation procedure from BHEL/customer etc all complete as per specification, drawings and as directed by the Engineer-in-charge including cost of skilled labour, material, tools & tackles, equipments etc all complete. Installation of borosilicate lining shall be done under controlled temperature and humidity conditions, as mentioned in specification, including providing all equipments required to create controlled temperature & humidity conditions inside chimney during installation, hot air blow cleaning of internal surface before application etc. all complete. [Borosilicate glass blocks, adhesive membrane with mixing machine, primer paint will be issued free of cost by BHEL] including expert supervision by BSGB manufacturer	BOQ Item Description modified. Please refer attached Annexure-B to TCN-05.

ANNEXURE-A TO TCN-05				
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CLARIFICATION OF BIDDER'S QUERIES				
Sl. No	Reference clause of tender document	Existing Provision	Bidder's Query	BHEL's Clarification
7	Item SI no 29A of SCH-3 of Volume-III, Price Schedule	Supplying, Fabricating and installing in the liners, gas sampling and gas opacity measurement ports made from C276 pipe including the cost of all labour, materials, bolts and bolting, non metallic gaskets, cover plates & all other accessories, painting etc., complete as per drawings and specifications. measurement for payment shall be done for net weight of Titanium/c276 pipe including flange plate/cover plate only (weld thickness not to be considered) which is welded over liner surface.	Supplying, Fabricating and installing in the liners, gas sampling and gas opacity measurement ports made from C276 pipe including the cost of all labour, materials, bolts and bolting, non metallic gaskets, cover plates & all other accessories, painting etc., complete as per drawings and specifications. measurement for payment shall be done for net weight of Titanium/c276 pipe including flange plate/cover plate only (weld thickness not to be considered) which is welded over liner surface.	BOQ Item Description modified. Please refer attached Annexure-B to TCN-05.
8	Item SI no 72 of SCH-3 of Volume-III, Price Schedule	Supplying and erecting after approval by Engineer a rack and pinion type Elevator of min 400 kg load carrying capacity, from ground upto top of chimney with landing at various platform level, including all fixtures and accessories complete as per spec. and drawings. (Payment Breakup - a) Supply of Elevator-70%, b) Erection & commissioning-20% and c) Supply of Mandatory Spare-10%)	Mandatory spares not included	BOQ Item Description modified. Please refer attached Annexure-B to TCN-05.
9	Item SI no 73 of SCH-3 of Volume-III, Price Schedule	Providing (supplying), fabricating and erecting, at all levels, FRP PIPES conforming to the design guidelines of AWWA M45, outside chimney flue liner (above EL 43.00 m) for carrying acidic condensates within the subject scope of works, based on the approved design as per gas-flow-model study, complete with all bends, flanges, lamination for connection, stiffeners, all other flue attachments, including support system, collars, connection with titanium pipes and other accessories, cost of all labour, material, equipment, surface finishing, sealing, testing for quality, transporting, lifting to all heights, setting in place, cutting, grinding, bending, curing, lamination, moulding, testing, guarantee/warranty etc. complete as per drawings, specifications, manufacturer's recommendations, relevant codes. (Submission of Wet Flue Gas Flow Model Study and its approval is not in scope of Contractor).	Please specify MOC of fixing screws & hardware	As per FRP pipe manufacturer guideline

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Sl. No	Reference clause of tender document	Existing Provision	Bidder's Query	BHEL's Clarification
10	Item SI no A73 of SCH-3 of Volume-III, Price Schedule	Providing (supplying), fabricating and erecting, at all levels, FRP PIPES conforming to the design guidelines of AWWA M45, from FGD outlet to inlet of chimney flue (EL 43.00 m and below) for carrying acidic condensates within the subject scope of works, based on the approved design as per gas-flow-model study, complete with all bends, flanges, lamination for connection, stiffeners, all other flue attachments, including support system, collars, seal pot arrangement, valves, connection with flue gas ducts and other accessories, cost of all labour, material, equipment, surface finishing, sealing, testing for quality, transporting, lifting to all heights, setting in place, cutting, grinding, bending, curing, lamination, moulding, testing, guarantee/warranty etc. complete as per drawings, specifications, manufacturer's recommendations, relevant codes. (Submission of Wet Flue Gas Flow Model Study and its approval is not in scope of Contractor).	Please specify MOC of fixing screws & hardware	As per FRP pipe manufacturer guideline
11	Item SI no 101 of SCH-4 of Volume-III, Price Schedule	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering (but excluding special type of dewatering viz. well point method), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 1Km, spreading/levelling of disposed materials etc all complete for following depths below ground level. (Measurement of excavation shall be paid as per actual quantity at site as per direction of Engineer in charge)	Sheet piling or special piling is excluded	Shall be as per tender provision
12	Item SI no 511 of SCH-4 of Volume-III, Price Schedule	Providing and applying two coats of bitumen grade 85/25 as per IS 702 (@ 1.7kg/sqm)with 1% antistripping compound conforming to IS 6241 in foundation, wall, column, shell, pedestal etc on concrete surfaces exposed to soil / ash including surface preparation etc. all complete.	for two coats	Shall be as per tender provision and relevant IS code
13	Item SI no 1101 of SCH-4 of Volume-III, Price Schedule	Providing Damp Proof Course of following thickness with 1:1.5:3 concrete (10mm and downgraded aggregate) with 2% of approved admixture of water proofing compound all complete. Two layers of hot bitumen coating 85/25 grade as per IS:702 @ 1.7Kg./sqm shall be applied one before & one after the DPC.	for two coats	Shall be as per tender provision and relevant IS code

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1.0	Sl. No. 2.0 of Annexure-B to TCN-04 (Clause No. 25.1.2 of Vol-IF-TCC)	<p>All the steel (MS plate, ISMB, angle, channel, stainless steel plate), reinforcement (TMT), MS earthing rod issued by the BHEL shall be properly accounted for. The total quantity of steel required for the work will be calculated from the approved bar bending schedule, fabrication drawings. The measurement for payment as well as for accounting shall be based on the sectional weights as indicated in the following/ applicable latest IS specifications.</p> <table><tr><th>Sr No</th><th>Name of Standard</th><th>Name of Section</th></tr><tr><td>1</td><td>IS: 808-1964</td><td>Beams, Channels and Angles</td></tr><tr><td>2</td><td>IS: 1730-1961</td><td>Plates, Sheets and Strips/Flats</td></tr><tr><td>3</td><td>BS4-1: 1993</td><td>UB/UC sections</td></tr><tr><td>4</td><td>IS: 12778/equivalence with EN-19-57</td><td>For NPB sections</td></tr><tr><td>5</td><td>IS: 12778/equivalence with EN-53-62</td><td>For HE/WPB sections</td></tr><tr><td>6</td><td>IS: 1786 or grade -1 of IS432 (Part-I)</td><td>Rounds including deformed hig</td></tr></table> <p>Reinforcements Fe-500 confirming to IS:1786 and MS earthing rod Grade-1 of IS:432 (part-I) & IS:1732, Corten-B steel</p>	Sr No	Name of Standard	Name of Section	1	IS: 808-1964	Beams, Channels and Angles	2	IS: 1730-1961	Plates, Sheets and Strips/Flats	3	BS4-1: 1993	UB/UC sections	4	IS: 12778/equivalence with EN-19-57	For NPB sections	5	IS: 12778/equivalence with EN-53-62	For HE/WPB sections	6	IS: 1786 or grade -1 of IS432 (Part-I)	Rounds including deformed hig	<p>All the steel (MS plate, ISMB, angle, channel, stainless steel plate), reinforcement (TMT), MS earthing rod issued by the BHEL shall be properly accounted for. The total quantity of steel required for the work will be calculated from the approved bar bending schedule, fabrication drawings. The measurement for payment as well as for accounting shall be based on the sectional weights as indicated in the following/ applicable latest IS specifications.</p> <table><tr><th>Sr No</th><th>Name of Standard</th><th>Name of Section</th></tr><tr><td>1</td><td>IS: 808-1964</td><td>Beams, Channels and Angles</td></tr><tr><td>2</td><td>IS: 1730-1961</td><td>Plates, Sheets and Strips/Flats</td></tr><tr><td>3</td><td>BS4-1: 1993</td><td>UB/UC sections</td></tr><tr><td>4</td><td>IS: 12778/ equivalence with EN-19-57</td><td>For NPB sections</td></tr><tr><td>5</td><td>IS: 12778/equivalence with EN-53-62</td><td>For HE/WPB sections</td></tr><tr><td>6</td><td>IS: 1786</td><td>Reinforcements Bars</td></tr><tr><td>7</td><td>IS 432 (Part-I) grade -1,</td><td>MS earthing rod</td></tr></table> <p>In case any such sectional weights are not available in the above documents, the manufacturer recommendation shall be binding.</p>	Sr No	Name of Standard	Name of Section	1	IS: 808-1964	Beams, Channels and Angles	2	IS: 1730-1961	Plates, Sheets and Strips/Flats	3	BS4-1: 1993	UB/UC sections	4	IS: 12778/ equivalence with EN-19-57	For NPB sections	5	IS: 12778/equivalence with EN-53-62	For HE/WPB sections	6	IS: 1786	Reinforcements Bars	7	IS 432 (Part-I) grade -1,	MS earthing rod
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TENDER NO - PSER:SCT:SDG-C2137:22			
REVISION/ MODIFICATION			
Sl. no.	Reference clause of Tender Document	Existing Provision	Modified Provision
3.0	Item SI no 29A of SCH-3 of Volume-III, Price Schedule	Supplying, Fabricating and installing in the liners, gas sampling and gas oapacity measurement ports made from C276 pipe including the cost of all labour, materials, bolts and bolting, non metallic gaskets, cover plates & all other accessories, painting etc., complete as per drawings and specifications. measurement for payment shall be done for net weight of Titanium/c276 pipe including flange plate/cover plate only (weld thickness not to be considered) which is welded over liner surface.	Supplying, Fabricating and installing in the liners, gas sampling and gas oapacity measurement ports made from C276 pipe including the cost of all labour, materials, bolts and bolting, non metallic gaskets, cover plates & all other accessories, painting etc., complete as per drawings and specifications. measurement for payment shall be done for net weight of C276 pipe including flange plate/cover plate only (weld thickness not to be considered) which is welded over liner surface.
4.0	Item SI no 72 of SCH-3 of Volume-III, Price Schedule	Supplying and erecting after approval by Engineer a rack and pinion type Elevator of min 400 kg load carrying capacity, from ground upto top of chimney with landing at various platform level, including all fixtures and accessories complete as per spec. and drawings. (Payment Breakup - a) Supply of Elevator-70%, b) Erection & commissioning-20% and c) Supply of Mandatory Spare-10%)	Supplying and erecting after approval by Engineer a rack and pinion type Elevator of min 400 kg load carrying capacity, from ground upto top of chimney with landing at various platform level, including all fixtures, Spare and accessories complete as per spec. and drawings. [Payment Breakup - a) Supply of Elevator-70%, b) Erection & commissioning-20% and c) Supply of Spare-(As per TECH SPECH- MECH) 10%]

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	Construction of 01 no. 275 M height RCC wet chimney with one(1) internal steel flue, having minimum 38 mm thick Borosilicate lining on internal surface of steel flue (excluding pile & pile cap) at 1x660 MW, Unit no. 5, WBPDCS Sagardighi TPP Extension Project, West Bengal.	
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	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/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)