



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-10-Feb-23

CORRIGENDUM- 01

PROJECT	:	2 x 660 MW NTPC TALCHER TPP, STAGE - III
PACKAGE	:	COOLING TOWERS (CT) (NATURAL DRAFT COOLING TOWER)
ENQUIRY NO	:	PE/PG/HER/E-7179/2022 Dated. 01.02.2023
SUBJECT	:	PRE- BID CLARIFICATION

Type of Corrigendum			
Technical Corrigendum -	<input checked="" type="checkbox"/>	Commercial Corrigendum -	<input checked="" type="checkbox"/>

Please note the following:

1. Sub Point b (For Marine Cover) under Clause No 40 of NIT to be read as:

“0.25% of consignment value subject to minimum of Rs 20,000/- (for Consignment above Rs 100 Crores) “

2. Format of Integrity Pact attached.

3. Reply to Pre Bid Query attached with this corrigendum shall be treated as part of NIT.

Yours faithfully,

For and on behalf of BHEL

Sharad Chandra
Manager/BOP

ANNEXURE– VIII

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at “BHEL House”, Siri Fort, New Delhi – 110049 (India) hereinafter referred to as “The Principal”, which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as “The Bidder/ Contractor” which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/ Contractor(s)

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits

himself to observe the following principles during his participation in the tender process and during the contract execution.

2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

Section 3 – Disqualification from tender process & exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors". framed by the Principal.

Section 4 – Compensation for Damages

4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/Bid Security.

4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

Section 5 – Previous Transgression

5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors

6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain

responsible for any default by his sub-contractors.

6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 – Criminal Charges against violating Bidders / Contractors / Sub-contractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 –Independent External Monitor(s)

8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.

8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non-disclosure agreement.

8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.

8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.

8.7 The IEMs would examine all complaints received by them and give their recommendations! views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious

irregularities requiring legal! administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.

8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.

8.9 IEM should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organization.

8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code! Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.

8.12 The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty! guarantee etc. should be outside the purview of IEMs.

9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 – Other Provisions

10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal
(Office Seal)

For & On behalf of the Bidder/ Contractor
(Office Seal)

Place-----

Date-----

Witness: _____
(Name & Address) _____

Witness: _____
(Name & Address) _____

NATURAL DRAUGHT COOLING TOWERS FOR 2 x 660 MW NTPC TALCHER THERMAL POWER PLANT, STAGE III AT TALCHER TOWN, ANGUL DISTRICT, ODISHA					
PRE-BID CLARIFICATIONS					
Sl No	Reference			Queries	Response from BHEL
	Section	Chapter / Cl. No	Page No.		
COMMERCIAL					
1	Notice Inviting Tender	21	1 OF 5	As cement and reinforcement steel are free issue items, BHEL should permit globalization of the cement and reinforcement steel quantities without affecting the sum total of the free issue items.	Bidder to follow tender specification
2	Notice Inviting Tender	16	1 OF 5	Basic drawings / documents viz. General arrangement Drawing of NDCT, Civil Design Basis Report, Cooling Tower Technical Data Sheets, Thermal Sizing & Pumping Head Calculations will be submitted within 08 weeks from the date of receipt of clear LOA. This is in line with Clause No 17.00.00 of Section I / Sub-Section IA of Specification No. PE-TS-497-165-N001. Subsequent submission of drawings / documents shall commence only after these basic drawing / documents are approved by BHEL (Purchaser) & NTPC Limited (Owner).	Bidder to follow the conditions indicated in NIT
3	Notice Inviting Tender	22 (i-a)	1 OF 5	Please confirm that BHEL shall release 5% of the civil work payment against site mobilization and not linking it with installation of the T&P as per Annexure - II. It is not at all practical to link release of MOB Advance with mobilisation & installation of the T&P as listed in Annexure-II of Tender Specification. T&P listed in Annexure-II are not required to be mobilised and installed at the start of execution of the contract. We confirm that T&P as listed in Annexure-II shall be mobilised / installed by us (as applicable) but same shall be done based on our final approved project schedule to suit completion of the project within stipulated completion period. Hence this clause can be accepted provided payment is released on mobilisation of Sr No A.8, A.9, A.10. E, F and G of T&P list as per Annexure-II subject to incorporation of following changes: (i) A.8 – Can be mobilised but words “along with operator and necessary spares” to be removed. (ii) A.10 – No justification in mobilising initially. So to be removed. (iii) D – Request to remove the provision of Chiller Plant. during initial satge since same will be provided only if necessary and hence no justification in linking the same with payment against mobilization. (iv) F - Acceptable in case minimum 10 sets of shuttering material for grillage column is allowed for mobilising initially. (v) E&G - No justification in mobilising initially. So to be removed.	Bidder to follow tender specification

PRE-BID CLARIFICATIONS					
SI No	Reference			Queries	Response from BHEL
	Section	Chapter / Cl. No	Page No.		
4	Notice Inviting Tender	22 (ii)	2 OF 5	For the last 10% payment against Civil Work, In case PG test / demonstration test of the cooling tower(s) cannot be completed within one year after completion of commissioning of cooling tower(s), for reasons not attributable to the contractor, BHEL shall release payment towards PG Test / demonstration test of the cooling tower(s) against submission of BG of equivalent amount and BHEL shall bear all the BG expenses. Note under Clause no 9.2.1 (GCTC) of GCC BOP Rev-00 should be applicable for payment terms towards Civil Work also. Also kindly note that completion of PG Test of cooling tower is not under cooling tower contractor's control. So we are not in a position to accept extension of PBG beyond end of mutually accepted guarantee period. Please confirm.	Bidder to follow Tender Specification.
5	Notice Inviting Tender	30	3 OF 6	We request BHEL to delete Reverse auction clause as this is a EPC based contract.	Bidder to follow Tender Specification.
6	Special Conditions of Contract	23	4 of 4	We understand that construction power shall be made available to cooling tower contractor free of cost at one point near the site. Please confirm.	Bidder to follow Tender Specification.
7	Special Conditions of Contract	ANNEXURE-E	--	Price Adjustment Clause / PVC should be applicable for entire duration of contract period. This is standard for all NTPC contracts. Moreover, PVC should not be limited to Plastic, Steel & Electrical Equipment and Labour components only. PVC should be worked out based on NTPC formula and Contractor should be allowed to furnish the list along with assigned co-efficients for items on which PVC should be applicable. NTPC contracts always provides Price Adjustment for entire duration of contract period. So we request BHEL to pass on benefits towards Price Adjustment to cooling tower contractor on back-to-back basis.	Bidder to follow Tender Specification.
8	Special Conditions of Contract	General	--	Following provisions need to be incorporated in SCC / NIT: (a) There is no mention about timeline for approval of drawing / documents in the Tender Specification. Kindly furnish the same. Timeline for approval of drawing / documents should be available. (b) There is no provision of Change Order in the Tender Specification. Provision of Change Order should be incorporated. (c) We understand that Clause No 43 (GCTC) of GCC BOP Rev-00 has to be referred for provision towards extension of time. (d) Formal Contract Agreement format is not available in the Tender Specification. Kindly furnish the same for our review & comments, if any.	a) Bidder to follow Tender Specification. b) Bidder to follow Tender Specification. c) Bidder to refer clause no 43 (GCTC) of GCC BOP Rev-00. d) Bidder to follow Tender Specification.
9	General Conditions of Contract	11.0	9 of 31	Kindly note that completion of PG Test of cooling tower is not under cooling tower contractor's control. So we are not in a position to accept extension of PBG beyond end of mutually accepted guarantee period. For the last 10% payment against Supply and Erection & ommissioning, In case PG test / demonstration test of the cooling tower(s) cannot be completed within one year after completion of commissioning of cooling tower(s), for reasons not attributable to the contractor, payment towards PG Test / demonstration test of the cooling tower(s) should be released on submission of BG of equivalent amount, valid initially for 6 months & to be revalidated till completion of PG test / demonstration test of the cooling towers or till the end of the guarantee period, whichever is earlier. Kindly confirm.	Bidder to follow Tender Specification.

PRE-BID CLARIFICATIONS					
Sl No	Reference			Queries	Response from BHEL
	Section	Chapter / Cl. No	Page No.		
10	General Conditions of Contract	11.0	11 of 31	We request BHEL to reduce the Contract Performance Bank Guarantee amount to 3% of the total contract price (excluding taxes, duties & freight) instead of 5%.	Bidder to follow Tender Specification.
11	General Conditions of Contract	12.0	12 of 31	Guarantee period cannot be open-ended. The guarantee period shall be 12 months from the date of handing over or 18 months from the date of last major despatch whichever is earlier. Please confirm.	Bidder to follow Tender Specification.
12	General Conditions of Contract	17.0	17 of 31	We understand that all insurance (transit, unloading, storage, handling, erection and commissioning, etc.) are in BHEL's scope. Kindly confirm.	Bidder to refer NIT and GCC BOP Rev-00
TECHNICAL					
1	Technical Specification No. PE-TS-497-165-N001	Section I / Sub-Section IA - Clause No 8.03.08	7 of 10	Requirement of "Drift loss test" shall be deleted.	Please follow specification
2	Technical Specification No. PE-TS-497-165-N001	Section I / Sub-Section IA - Clause No 11.00.00 b & c	8 of 10	As as per these clauses and also Clause No 2.10 of DATASHEET-A, static pump head above FGL up to the centre line elevation of the hot water distribution lateral pipes inside each Cooling Tower has to be guaranteed by Bidder. Please confirm. We have also noted that dynamic head, which shall be minimum 2.0 MWC, will be considered by BHEL. Please note that we will be furnishing the actual dynamic head during detailed engineering stage after order.	Bid specification is clear. Please follow specification. Regarding dynamic head, Point is not understood. However, please note that friction head shall be finalized during detail engg. with successful bidder.
3	Technical Specification No. PE-TS-497-165-N001	Clarafication No 01 / SI No 1327	--	Flushing arrangement should be arranged by BHEL. This is a part of process requirement and flushing line need to be designed / sized and executed by BHEL only. Kindly confirm.	Please follow specification
4	Technical Specification No. PE-TS-497-165-N001	Section I / Sub-Section ID DATASHEET-A / Clause No 8.9	4 of 6	In case bidder opts for V-bar type splash fill, the fill bars shall be supported on SS-316L grids which in turn will be supported from RCC beams. Please confirm.	Please follow specification
5	Technical Specification No. PE-TS-497-165-N001	Section I / Sub-Section ID DATASHEET-A / Clause No 8.0	4 of 6	Because of a few ambiguities in the specification, kindly confirm the following MOC: (a) Staircase - RCC (b) Handrail on staircase - Mild Steel, Galvanised (c) Internal Walkway - RCC (d) External Walkway Platform - RCC	Please follow specification
6	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IID / Clause No 1.00.02	11 of 13	As per this Clause, "The plant lies in the corrosive category C3 as per ISO 12944. Protection measures shall be provided as specified in Part-B of Technical Specifications". Kindly confirm whether this clause is referring to ANNEXURE-M available in specification.	Please follow specification

PRE-BID CLARIFICATIONS					
SI No	Reference			Queries	Response from BHEL
	Section	Chapter / Cl. No	Page No.		
7	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IID / Clause No 2.01.00	11 of 13	As per this clause, for "Development of Bidders temporary staff colony" and labour colony along with toilets & fencing etc. Bidder may use Area-A for Labour Colony". Kindly furnish detailed information about this "Area-A".	Area will be allotted by BHEL/Customer during actual mobilisation within 2.5 km from plant boundary.
8	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IID / Clause No 2.02.00	11 of 13	As per this clause construction water may be provided by Owner at one point near existing Stage-II reservoir. We understand that construction water point shall be approximately 500 meter from the proposed cooling tower working area. Kindly confirm.	Construction water point shall be approximately 500 meter from working area.
9	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IID / Clause No 2.02.00	12 of 13	We understand that " Construction power (three phase, 415 V/ 440 V) will be provided free of cost at one point near the site at a distance of approx. 500M". This is acceptable if the Batching Plant is allowed near the Cooling Tower. However, if batching plant is located elsewhere / in laydown area, separate Construction power connection (three phase, 415 V/ 440 V) will be provided by BHEL free of cost at one point near the batching plant at a distance of approx. 500M". Please confirm.	If Batching plant is located elsewhere / in laydown area, separate Construction power connection (three phase, 415 V/ 440 V) will be provided free of cost at one point near the batching plant at a distance of approx. 500M"
10	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section D-1-7 / Clause No 5.17.01.01 (B)	49 of 120	For design consideration for wind pressure reference of "Criteria for structural design of Reinforced concrete Natural Draft Cooling Tower " IS 11504 and wind pressure co-efficient (p ₁) as 1.43 is mentioned in this clause. But as per latest code IS 11504-2020 , there is no such factor as 1.43. Hence kindly furnish the wind pressure co-efficient to be considered in our design.	Bidder to follow design criteria mentioned in technical specification.
11	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section D-1-7 / Clause No 5.17.01.02.03 (F - a)	55 of 120	Minimum thickness of NDCT shell has been specified as 350 mm. As per standard industrial practice, minimum NDCT shell thickness of 250 mm should be sufficient. In case above is not acceptable, minimum thickness of shell of 250 mm should be accepted in case meridional ribs are provided in the cooling tower shell. Please confirm.	Bidder to refer technical specification clause no. 5.17.01.02.03 "D" & "F"(section-VI,PART-B,SUB-SECTION-D-1-5).
12	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section D-1-7 / Clause No 5.17.01.02.03 (F - b)	55 of 120	Co-efficient of Pr. Distribution around the cooling tower circumference including suction may be taken as VGB-BTR KUCHLTURMEN GERMAN SPECIFICATIONS (latest). Please confirm if we can use IS: 11504 -2020 in place of VGB-BTR KUCHLTURMEN GERMAN SPECIFICATIONS (latest) for co-efficient calculation. We request BHEL to review our query and confirm to enable us suitably optimise our NDCT design.	Bidder to comply the specification requirement.

PRE-BID CLARIFICATIONS					
SI No	Reference			Queries	Response from BHEL
	Section	Chapter / Cl. No	Page No.		
13	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IID / Clause No 5.17.03.01	59 of 120	As per this clause "Automatic Climform scaffolding system or Jumpforms shall be used for tower shell construction". Kindly note that we shall be using electro-mechanically operated jumpform system only as per our well-proven and universally accepted standard.	Bidder to comply the specification requirement.
14	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IID / Clause No 5.18.03.02	83 of 120	Kindly furnish the distance of the disposal area from the excavation point. We understand that disposal area should be located inside the plant boundary only and at a distance of maximum 4 Km from the proposed cooling tower location.	Disposal area from excavation point shall be approximate 4 km.
15	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / SubSection D-1-7 / Clause No 7.01.00	1 of 12	As per this clause, NGL is varying between RL (+) 64.9 M and RL (+) 67.0 M. But as per enclosed Bore Hole details for (BH-10 to BH-18) & (BH-149-157), NGL is varying from RL 71.425 M to RL 68.122 M. Please clarify why there is so much difference in the levels.	Please note that the variation of NGL mentioned in clause no 7.01.00 is for proposed Admin building, fire station, permanent store, Workshop building and gate complex area. Bidder is requested to refer bore logs of NDCT area for actual variation in NGL.
16	Technical Specification No. PE-TS-497-165-N001	Annexure - II	--	T&P shall be mobilized and installed by us as per our design and based on overall completion schedule and not necessarily as per the T&P list furnished in Annexure - II. Some of our comments on the T&P list furnished in Annexure - II are: (a) SI No F – Minimum twenty (20) Sets to be replaced with Minimum Ten (10) sets (b) SI No G – We understand that this is applicable against ring beam / raft below GL. Kindly confirm.	a) Bidder to follow tender specifications. b) Vendor understanding correct Vendor to follow minimum requirement mentioned in listed T&P. For balance requirement mutually agreed PLAN to be made during mobilisation.
17	Technical Specification No. PE-TS-497-165-N001	Annexure - III	--	Kindly confirm whether " One ash silo" need to be included in Cooling Tower contractor's scope.	One ash silo to be included in cooling tower contractor scope.
18	Technical Specification No. PE-TS-497-165-N001	Annexure - IV	--	Point 3 suggests "BHEL is planning to supply TMT in coil form. Vendor to deploy D Coiling machine". Please note D coiling machine is required for TME of smaller diameter. Generally usage of such small diameter TMT is very rare in NDCT projects. Hence we request BHEL to take suitable action and supply straightened bar. Hence this point needs to be modified suitably based on project requirement. We also request BHEL to issue each re-bar in cutting pieces as per approved billing break-up schedule.	Bidder to follow tender specification.
19	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section D-1-12 (F) / Clause No 1.4.0	2 of 4	Kindly confirm that the soil data provided elsewhere (Volume IIB / Section C & Annexure-I) in the specification is for cooling towers' location only. Also confirm that there will no possibility of shifting of cooling tower location in future. For bidding purpose we will be following the available soil investigation report only and any price / time implication due to change in our bid consideration due to any variation between actual soil condition and available soil report should be borne by Purchaser.	It is confirmed that soil data provided in Annexure-1 is for NDCT area. Please refer clause no 3.00.00 of Volume IIB / Section C, sheet 1 to 8 for clarity. Regarding cooling tower location the tower centre line may shift by 10 to 15 meters depending on size provided by successful bidder.

PRE-BID CLARIFICATIONS					
SI No	Reference			Queries	Response from BHEL
	Section	Chapter / Cl. No	Page No.		
20	Technical Specification No. PE-TS-497-165-N001	Annexure - Q	--	The proposed cooling towers will be handling clarified water. Hence kindly confirm whether this specification mentioned as applicable for concrete surfaces in sea water application will be applicable or not for this project.	Bidder to follow this specifications for painting/coating.
21	Technical Specification No. PE-TS-497-165-N001	Section C / Sub-Section C&I	--	<p>1. Please provide detailed technical specification, P&ID, relevant piping drawings and approved sub vendor list for each item listed under SI No 1.1 thru' 1.4 listed under Specific Technical Requirements (C&I).</p> <p>2. Also please provide C&I Cable, JB scope terminal point information for the MOV Signals.</p>	<p>1. Detailed technical specification for items listed under SI.no 1.1 to 1.4 are already covered in specification (Section - IC). Sub vendor list is also annexed with Section - IC.</p> <p>2. C&I cable is in BHEL scope of supply. Special cable, if any shall be supplied by bidder. Further, cable engineering i.e. cable schedules and interconnections to be provided by bidder.</p>
22	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IIIC-17	3 OF 4	We understand that supply and laying of C&I cable is in BHEL's scope. Kindly confirm.	Kindly refer Electrical scope matrix for Cable (Section - IB).
23	Technical Specification No. PE-TS-497-165-N001	Section C / Sub-Section C&I	--	We understand that there is a requirement to consider Averaging Type Pitot Tube or Annubar. We also understand that DP Flow transmitter shall be of Profibus type. Kindly furnish the approved sub vendor list and detailed technical specification for DP Flow transmitter.	Please follow specification.
24	Technical Specification No. PE-TS-497-165-N001	Section VI / Part B of Bid Doc No CS-4540-001A-2 / Sub Section IIIC-04	20 of 34	Instruments required for performance guarantee test will be only loaned for the duration of tests. These will be taken back by the testing agency on completion of testing. However, we have included in our scope C&I Instruments / PG Test Instruments as listed under SI No 1.1 of Specific Technical Requirement (C&I), which shall be supplied as loose items.	Please follow specification.
25	Technical Specification No. PE-TS-497-165-N001	List of Mandatory Spares for C&I for NDCT Package	1 of 1	<p>Kindly note that following C&I spares are not applicable within our scope limit:</p> <p>(a) SI No A (iv) – Purge meters</p> <p>(b) SI No A (v) – Filter regulators</p> <p>(c) SI No E – Process Actuated Switch Devices</p> <p>(d) SI No F – Limit Switches</p> <p>Also note that spares for Electrical Actuator mentioned under SI Nos B / 2 to 10 shall be supplied as applicable based on our finally selected valve manufacturer's design requirement only.</p>	<p>Please follow specification.</p> <p>Further, please refer notes regarding mandatory spares as indicated in the price schedule.</p>
26	Technical Specification No. PE-TS-497-165-N001	HSEP: 14 / Clause No 11.44 / SI No 10	82 of 190	Clause Suggest "Tie up with fire brigade shall be done in case customer is not having fire station". We understand that this is outside bidder's scope. Kindly confirm.	FIRE tender arrangement is not in vendor scope. Vendor to follow FIRE extinguisher requirement as mentioned in HSE chapter.