



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-29-May-26

CORRIGENDUM- 03

PROJECTs	:	2000 TPD BCGCL COAL TO AMMONIUM NITRATE - LSTK 1
PACKAGE	:	INDUCED DRAFT COOLING TOWERS (IDCT)
ENQUIRY NO	:	77/26/6036/AMI dated 13.05.2026
SUBJECT	:	Technical amendment 02 and Replies to pre-bid queries

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

Bidders are requested to note the following -

1. Technical amendment 02 to Technical Specifications no. PE-TS-544-165-W001 is enclosed.
2. BHEL replies to pre-bid queries are enclosed.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,
For and on behalf of BHEL

Amit Kumar
Manager/BOP



**TECHNICAL SPECIFICATIONS
INDUCED DRAFT COOLING TOWER**

SPECN. NO.:

PE-TS-544-165-W001

AMENDMENT NO. - 02

REV. NO.

0

DATE:

28.05.2026

1.0 With reference to Technical Specification, please consider the Specification amended as below:

CI no.	Clause as mentioned in Technical Specification	Amended Clause
ANNEXURE-1 : Circulating water analysis (with COC 5), page 2 of 216 of TECHNICAL_SPECIFICATION_BOOK_1_OF_2_(PART-2)	ANNEXURE-1 : Circulating water analysis (with COC 5)	ANNEXURE-1 : Revised Circulating water analysis (with COC 5) is enclosed.
ANNEXURE-3 : IDCT KEY PLAN AND TERMINAL POINT DETAILS , page 4 of 216 of TECHNICAL_SPECIFICATION_BOOK_1_OF_2_(PART-2)	ANNEXURE-3 : IDCT KEY PLAN AND TERMINAL POINT DETAILS	ANNEXURE-3 : Revised IDCT KEY PLAN AND TERMINAL POINT DETAILS is enclosed.

2.0 Following drawings / documents / details are added in Specification.

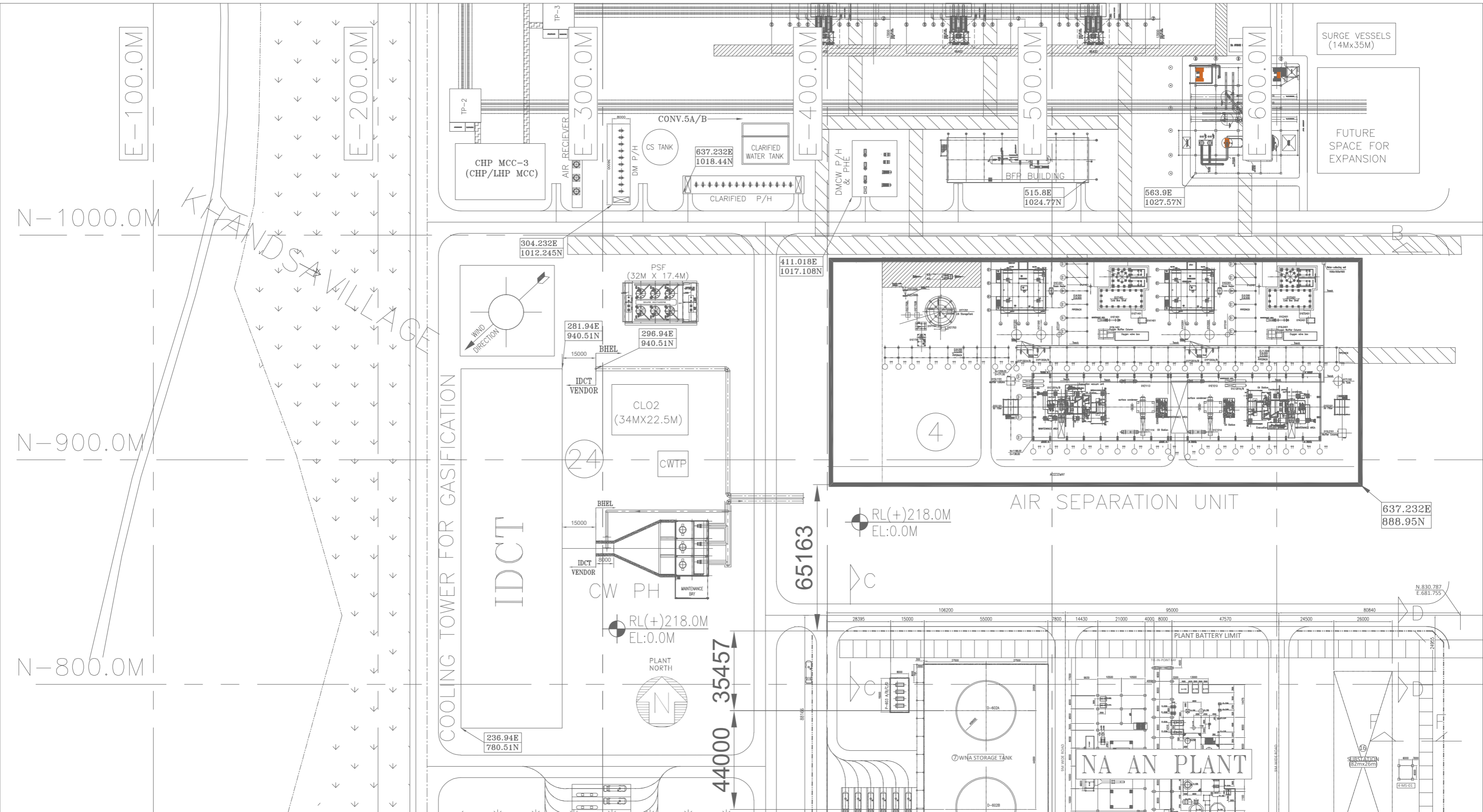
a)	Annexure-P1 : Raw bore log data of IDCT area, from field investigation, is also attached.
b)	Annexure – G (Specification for high performance moisture compatible corrosion resistant coating system) is attached.
c)	Annexure – H (Wind & Seismic Data) is attached.

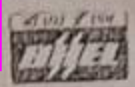
ANNEXURE-1

Revised Circulating water analysis (with COC 5)

			Circulating Cooling Water
1	pH		8.5@25DegC
2	Turbidity	NTU	5
3	P-Alkalinity	mg/l as CaCO ₃	70
4	M-Alkalinity	mg/l as CaCO ₃	480
5	Calcium	mg/l as CaCO ₃	410
6	Magnesium	mg/l as CaCO ₃	190
7	Chloride	mg/l as Cl	300
8	Reactive Silica	mg/l as SiO ₂	70
9	Chemical Oxygen Demand(COD)	mg/l	90
10	Biological Oxygen Demand(BOD)	Refer Note-1	
11	Equivalent Mineral Acid(EMA)	mg/l	320
12	Total Suspended Solids(TSS)	mg/l	15
13	Total Iron	mg/l as Fe	2
14	KmnO ₄ No	mg/l	19.5
15	Dissolved Oxygen(DO)	mg/l	35
16	TDS	mg/l	1140
17	Temperature	Deg-C	35
18	Total hardness		600
19	Conductivity		1710

Note-1 : For BOD in circulating water, after ClO₂ dosing, the BOD value will be less than 5 ppm.





FIELD BORELOG SHEET

NAME OF PROJECT	Geotechnical investigation work for BCGCL's 2000 TPD Coal to Ammonium Nitrate Project, Lakhanpur, Odisha.	BOREHOLE NO. & LOCATION	BH-20	BORING TYPE	Rotaryhydraulic
NAME OF CLIENT	Bharat Heavy Electricals Limited (BHEL)	DATE OF START		DRILLING BIT	Diamond
GROUND ELEVATION		DATE OF END		BH DIA. IN SOIL	150 mm
EASTING	E 266	CASING DEPTH (m)	4 mts	BH DIA. IN ROCK	76 mm
NORTHING	N 825	WATER TABLE (m)	2.5 mts	STANDARD	IS 4464 : 1985

TOTAL DRILLING DEPTH (m)		DRILL RHR (m)	DESCRIPTION OF STRATA	TYPE OF SAMPLE	SAMPLE NO.	STANDARD PENETRATION TEST				CORE RECOVERY LENGTH	CR (%)	ROD LENGTH	ROD (%)	REMARK
FROM	TO					15	30	45	N					
0.0	1.5	1.5	Reddish yellow sandy clay	SPT		13	14	17	31					
1.5	3.0	1.5	"	SPT		15	18	22	40					
3.0	4.5	1.5	"	SPT		25	28	30	58					
4.5	6.0	1.5	"	SPT		27	50/7 cm							
6.0	7.5	1.5	yellowish claystone	CS	1/6	-	-	-	-	77	51	61	41	
7.5	9.0	1.5	"	CS	7/10	-	-	-	-	75	50	66	44	
9.0	10.5	1.5	greyish black SS	CS	11/13	-	-	-	-	42	28	24	16	
10.5	12.0	1.5	"	CS	14/25	-	-	-	-	86	57	44	29	
12.0	13.5	1.5	"	CS	26/29	-	-	-	-	131	87	131	87	
13.5	15.0	1.5	"	CS	30/42	-	-	-	-	148	99	94	63	
15.0	16.5	1.5	"	CS	43/52	-	-	-	-	131	87	91	61	
16.5	18.0	1.5	"	CS	53/77	-	-	-	-	133	89	-	-	
18.0	19.5	1.5	"	CS	78/97	-	-	-	-	110	73	-	-	
19.5	21.0	1.5	"	CS	98/112	-	-	-	-	85	57	-	-	

Note: Borehole terminated at 21.0 mtrs.

ABBREVIATIONS:

- UDS : Undisturbed Sample
- DS : Disturbed Sample
- SPT : Standard Penetration Test

- CR : Core Recovery
- ROD : Rod Quality Designation
- sp : Small Pieces

J. S. Panda
Sr. Geologist



**BCGCL 2000 TPD COAL TO
AMMONIUM NITRATE PLANT AT
LAKHANPUR, ODISHA
INDUCED DRAFT COOLING TOWER**

SPECIFICATION NO. IS-1-25-2002/TS/IDCT

ANNEXURE - G

REV.NO. 00 DATE 26/05/2026

SHEET 1 OF 3

TECHNICAL SPECIFICATION FOR
CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR
INDUCED DRAFT COOLING TOWER

ANNEXURE-G

**SPECIFICATION FOR HIGH PERFORMANCE MOISTURE
COMPATIBLE CORROSION RESISTANT COATING SYSTEM**

SPECIFICATION NO. IS-1-25-2002/TS/IDCT



**Bharat Heavy Electricals Limited
Industrial Systems Group
Post Box # 1249, IISc Post,
Prof. CNR Rao Circle, Malleswaram,
Bangalore – 560012**



**BCGCL 2000 TPD COAL TO
AMMONIUM NITRATE PLANT AT
LAKHANPUR, ODISHA
INDUCED DRAFT COOLING TOWER**

SPECIFICATION NO. IS-1-25-2002/TS/IDCT

ANNEXURE - G

REV.NO. 00 DATE 26/05/2026

SHEET 2 OF 3

**SPECIFICATION FOR HIGH PERFORMANCE MOISTURE COMPATIBLE
CORROSION RESISTANT COATING SYSTEM**

- a) Providing & applying High Performance Moisture Compatible Corrosion Resistant Coating System manufactured as per technical specifications of Central Electrochemical Research Institute, Karaikudi, (C.S.I.R. affiliate Institute), Tamil Nadu, Pin - 630 003.
- b) The coating system shall be water compatible, compatible for applying in wet conditions also and shall be tolerant to under-prepared surfaces and existing residual tar / paint. The system shall also be quick curing so as to be suitable for application during shut downs.
- c) The coating material shall be stored in the manner as per recommendations of the manufacturer until ready for use. The coating material shall be used within the manufacturer's written recommended shelf life.
- d) The coating system shall conform to the following:

PROPERTIES OF PAINT

Base	High Performance Moisture Compatible Corrosion Resistant Coating System CECRI know-how system
Volume Solids	70%
Specific Gravity (ASTM-D-1475)	1.25 ± 0.1
Dry Film Thickness (ASTM-D-1186)	160 ± 10 µm per coat
Coverage	4 - 4.5 sq.m / ltr
Touch Dry	2 hours
Recoating	24 hours



**BCGCL 2000 TPD COAL TO
AMMONIUM NITRATE PLANT AT
LAKHANPUR, ODISHA
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SPECIFICATION NO. IS-1-25-2002/TS/IDCT

ANNEXURE - G

REV.NO. 00 DATE 26/05/2026

SHEET 3 OF 3

PROPERTIES OF COATING

Salt Spray (ASTM-B 117)	2000 hours
Resistance to Sea Water (Carried out up to 6 months)	Passes
Coating Resistance (Carried out up to 6 months)	$10^9 \Omega \cdot \text{cm}^2$
Adhesion (ASTM-D 4541)	4.5 N/sq.mm
Flexibility (ASTM-D 522)	1/8" passes
Elongation	33%
Impact (ASTM G 14-04)	45 cm passes

- e) Paint material & its application method shall be obtained from any manufacturer who has been granted License by CECRI, Karaikudi for the technical know-how for **High Performance Moisture Compatible Corrosion Resistant Coating System**. The application method of coating shall be got duly approved from CECRI, Karaikudi.



**BCGCL 2000 TPD COAL TO
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SPECIFICATION NO. IS-1-25-2002/TS/IDCT

ANNEXURE - H

REV.NO. 00 DATE 26/05/2026

SHEET 1 OF 3

TECHNICAL SPECIFICATION FOR
CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS FOR
INDUCED DRAFT COOLING TOWER

ANNEXURE-H

WIND & SEISMIC DATA

SPECIFICATION NO. IS-1-25-2002/TS/IDCT



Bharat Heavy Electricals Limited
Industrial Systems Group
Post Box # 1249, IISc Post,
Prof. CNR Rao Circle, Malleswaram,
Bangalore – 560012



**BCGCL 2000 TPD COAL TO
AMMONIUM NITRATE PLANT AT
LAKHANPUR, ODISHA
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SPECIFICATION NO. IS-1-25-2002/TS/IDCT

ANNEXURE - H

REV.NO. 00 DATE 26/05/2026

SHEET 2 OF 3

1.0 WIND LOADS

Wind loads shall generally be as per IS-875 (Part-3) except for switchyard structures and transmission towers for which IS: 802 shall be applicable. Basic wind speed shall be as per the Code which is 44 m/s. Wind force on structural elements shall be calculated using design wind pressure multiplied by elements frontal area, normal to wind direction multiplied by force coefficient as per Table 26, IS 875 Part-3.

In calculation of wind force frictional drag shall be considered where applicable.

All structures shall be designed for static & dynamic wind forces in accordance with IS:875 (Part-3) and as specified in this document. Design parameters to be adopted are given below in Table

Basic Wind Speed, V_b	44 m/s	as per IS 875
Terrain Category	Cat-2	as per IS 875
Risk Coefficient, k_1	1.07	as per IS 875
Risk Coefficient, k_2	Varies	as per IS 875 Cl 6.3.2.2
Topography Factor, k_3	1.00	as per Cl 6.3.3, IS 875 (Part-3):2015
Cyclonic factor, k_4	1.00	as per Cl 6.3.4, IS 875 (Part-3):2015
Wind directionality factor, k_d	Varies	as per IS 875 Cl 7.2.1
Area Averaging factor, k_a	Varies	as per IS 875 Cl 7.2.2 Table 4
Combination factor, k_c	Varies	as per IS 875 Cl 7.3.3.13

2.0 SEISMIC LOADS

All structures and equipment shall be designed for seismic forces. Project site at Jharsuguda comes under Seismic Zone-3, type of soil – hard, as IS:1893 (2015/2016). Following damping factors to be considered for design of structures:



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SPECIFICATION NO. IS-1-25-2002/TS/IDCT

ANNEXURE - H

REV.NO. 00 DATE 26/05/2026

SHEET 3 OF 3

DAMPING FACTORS	
Steel structures	5%
Reinforced concrete structures	5%
Reinforced concrete stacks	3%
Steel stacks	2%

Vertical acceleration spectral values shall be taken as $2/3$ rd of the corresponding horizontal values.

2.1 METHOD OF ANALYSIS

Since most structures in a LSTK-1 are irregular in shape and have irregular distribution of mass and stiffness, dynamic analysis for obtaining the design seismic forces shall be carried out using the response spectrum method. The number of vibration modes used in the analysis should be such that the sum total of modal masses of all modes considered is at least 90 percent of the total seismic mass and shall also meet requirements of IS:1893 (Part 1). Modal combination of the peak response quantities shall be performed as per Complete Quadratic Combination (CQC) method or by an acceptable alternative as per IS:1893 (Part 1).

In general, seismic analysis shall be performed for the three orthogonal (two principal horizontal and one vertical) components of earthquake motion. The seismic response from the three components shall be combined as specified in IS:1893.

PRE-BID CLARIFICATIONS

SI No	Reference			Queries	BHEL REPLY
	Section	Chapter / Cl. No	Page No.		
TECHNICAL					
1	Technical Specification for IDCT (Part-2 / Book-1)	Annexure-3 / IDCT Key plan and Terminal Point Details	4 / 216	<p>It is noted from the key plan that the terminal point of the hot water return header is on the same side with the supply header at the sump side of the IDCT. Hence the downstream routing of the hot water distribution header from this terminal point alongside the Cooling tower will be more complex, since this header needs to be routed further underground to avoid clash with basin/channel and its foundation. This will significantly increase the no. of bends and fittings in the distribution piping network, which will, in turn, increase the pressure loss of the entire hot water return line.</p> <p>Considering the above constraint, please provide the hot water return header terminal point opposite the sump side of the IDCT, i.e. at the north-west or south-west direction of the IDCT by the road side. This will lead to better distribution of the hot water flow through the uniform piping network ensuring minimum pressure loss along the IDCT.</p>	Revised key plan attached as per Amendment-02
2	Technical Specification for IDCT (Part-2 / Book-1)	Annexure-3 / IDCT Key plan and Terminal Point Details	4 / 216	We understand that only basic cooling tower including HW piping upto finalised terminal point (getting the same resolved as per Query No 1 above) are under our scope. Supply, civil work and installation of all package items shown in the Layout drawing viz. CWTP system, ClO2 dosing system, etc. are excluded from our scope. Please confirm. We also request you to furnish a duly marked Scope Limit Drawing.	Bidder to follow specification.
3	General	Existing site conditions	-	Please confirm that the designated site for subject cooling tower is free of any obstacles / existing structures / service lines (both overground and underground). If not so, then it is the responsibility of BHEL / Owner to arrange for re-routing / demolition of the same, before handing over clear graded site to cooling tower contractor, with adequate clearances. Please confirm.	Handing over of graded land without any encumbrances is in the scope of M/s. BCGCL.
4	General	Electrical items - hazardous zone classification	-	Please confirm the hazardous area classification and gas group to be considered for design of electrical items on the cooling tower fan deck.	Bidder to follow specification.
5	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CL. No. 4.2.2	22 / 143	Casing in case of pultruded FRP structured cooling tower option shall be corrugated FRP.	Bidder to follow specification.
6	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CL. No. 4.2.3	22 / 143	Cell partition wall shall be corrugated FRP for FRP structured cooling tower.	Bidder to follow specification.
7	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CL. No. 4.2.5	22 / 143	In case of pultruded FRP structured cooling tower option, fan cylinder / recovery stack shall be of moulded FRP / GRP. Same in pultruded FRP is not feasible.	Bidder to follow specification.
8	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CL No 10	108/143	<p>a. In view of the referred clause / specification of instrumentation enclosures, painting etc. please confirm whether Zone 2 Gas Group IIA/IIB or Zone 2 gas group IIC has to be considered for the C&I items.</p> <p>b. Also based on the hazardous area classification, please confirm whether there is requirement of HC & NH3 gas detectors in our scope of supply. If yes, then please provide the relevant technical specifications, approved vendor list and mandatory spares requirement for same.</p> <p>c. For use in India, all relevant C&I items shall be provided with latest CCOE/PESO certification. Please confirm acceptance.</p>	Bidder to follow technical specification

PRE-BID CLARIFICATIONS

SI No	Reference			Queries	BHEL REPLY
	Section	Chapter / Cl. No	Page No.		
9	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CL No 13	108/143	<p>Please note that performance test instruments used for performance testing of cooling tower shall remain test engineer / team's property and same shall be taken back after successful conductance of PG test.</p> <p>Now referring to this clause, kindly confirm whether bidder need to supply these listed PG test instruments as new loose items for permanent installation by Owner at a later date. In case yes, since these items will be permanent installation same need to be connected through JB to Owner's DDCMIS and hence there will be no requirement of temporary DAS in this case. Please confirm.</p> <p>However, if Owner feels that Temporary DAS is applicable, then kindly provide the relevant technical specifications, approved sub vendor list and mandatory spare requirement for the same, as applicable for our scope limits.</p> <p>In case we have to supply the test instruments as loose items, kindly confirm that the "Barometer" mentioned here refers to barometric type pressure transmitter. Please confirm.</p>	Bidder to follow specification.
10	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CL No 20	108/143	There is no separate requirement of providing vibration monitoring pad. We understand that these are standard bought outs from the VMS vendor and should be arranged by Purchaser. Please confirm.	Bidder to follow technical specification
11	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CL No 2.3 / SPECIFICATIONS - TEMPERATURE GAUGE Housing IP-65 (Explosion proof for NEC Class-1, Division 1 area)	101/143	Temperature Gauge is a mechanical instrumentation item with no electronics contained within. Therefore explosion proof housing is not applicable in this case. Please confirm.	Bidder to follow technical specification
12	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CI No 2.11 / SPECIFICATIONS- JUNCTION BOX	105/143	<p>Based on the clause, we understand that we shall have to consider ex-e type FRP make IP-65 JB, suitable for Zone 2, Gas Group IIA/IIB or IIC. Please confirm, as applicable.</p> <p>Our proposed makes for the subject item are M/s P&F, M/s R Stahl or M/s Phoenix Mecano India Limited, M/s MTL Instrument India Pvt Limited, subject to BHEL / Owner's acceptance. Please confirm.</p>	Bidder to follow technical specification
13	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CI No 2.5 / SPECIFICATIONS -RTD	103/143	The specifications for RTDs of winding/ bearings of motor should be as per motor manufacturer's standard. The motor manufacturer shall submit the adequate supporting documents for establishing their standard practice. However, the type of RTD shall be PT100 for the CT Fan motors. Please confirm and specify the requirement of WTD and BTD for the cooling tower fan motors, as applicable.	Bidder to follow technical specification
14	Technical Specification for IDCT (Part-1 / Book-1 of 2)	CI no 2.7 / SPECIFICATIONS - Anemometer wind speed sensor housing "weatherproof"	104/143	We understand that the enclosure of the anemometer sensor shall be flameproof, suitable for Zone 2, Gas Group II/IIB or IIC. Please confirm the requirement. Please also provide the approved sub vendors for the same.	Bidder to follow technical specification
15	Technical specification for IDCT / Book 2 of 2	Soil investigation report	36 / 217	Reference of bore holes BH-1 to BH-20 are available for the project, however, reference of bore hole(s) pertaining to the cooling tower location is not mentioned. Please clarify the same.	Raw bore log data of IDCT area, from field investigation, is provided as per Amendment-02.
16	Technical specification for IDCT / Book 2 of 2	Soil investigation report	-	Please confirm the Natural Ground Level (NGL) in the cooling tower area.	Refer the plot plan & contour levels already furnished.

PRE-BID CLARIFICATIONS					
SI No	Reference			Queries	BHEL REPLY
	Section	Chapter / Cl. No	Page No.		
17	Technical specification for IDCT / Book 2 of 2	cl.-3.11	15 of 217	There is a reference of "Annexure-G for Moisture Compatible Corrosion Resistant Coating System", which seems to be missing in the tender specification. Please furnish the same.	Annexure-G furnished as per Amendment-02.
COMMERCIAL					
1	NIT	Cl. 28 / Payment Terms for Civil works	3 of 11	<p>Payment Terms for Civil Works shall be as follows: Payment against mobilisation & installation shall be released after submission of additional bank guarantee of equivalent amount which shall be valid till completion of main supply.</p> <p>We request to omit this provision. We shall be deploying machineries which are already of significant value. Additional BG for payment is an unnecessary overburden. We can submit indemnity to the extent that the machineries would not be released till BHEL permits, except for repairs.</p>	Bidder to follow tender terms and conditions
2	NIT	Cl. 28 / Payment Timeline	3 of 11	<p>Payment Timeline of 90 days for non-MSME bidder / contractor as per MSMED Act is not acceptable at our end. Since the job completion time is 20 months, bidder cannot wait 3 months for payment. We request the same to be curtailed to 30 days. Kindly amend the stipulation.</p>	Bidder to follow tender terms and conditions
3	NIT	Cl. 30 / Penal rates	4 of 11	<p>Penal rates are way more than the rates considered for computation of cement & steel cost loading under Cl. 27 of NIT. This must be normalized. We can agree to the rates of Cl. 27 + 5% OH of BHEL. Please confirm.</p>	Bidder to follow tender terms and conditions
4	NIT	Cl. 32 / Liquidated Damage	4 of 11	<p>We seek deletion of separate LD provision on Supply. Delay in supply does not impose any harm if construction is completed timely or delayed due to reasons non-attributable to the contractor. Separate LD on supply delay is unreasonabale and amounts to unjust enrichment to BHEL</p>	Bidder to follow tender terms and conditions
5	NIT	Cl. 36 / Performance Security	6 of 11	<p>We do not accept 14 days timeline to submit Performance Security BGs from date of LOA, which is indicative only. We suggest that the 14 days timeline should start only from date of Kick Off Meeting, as project modalities are decided there. BHEL to please confirm.</p>	Bidder to follow tender terms and conditions
6	NIT	Cl. 37 / Breach of contract	7 of 11	<p>We do not agree to flat 10% deduction by BHEL for any breaches. It should be restricted to the actual harm caused to BHEL, if any, restricting the overall deduction applicable under this clause up to maximum 10% of contract value. BHEL to reconsider this clause.</p>	Bidder to follow tender terms and conditions
7	GCC BOP Rev. 00 GCTC	Cl. 9.10	33 of 99	<p>It is observed that no interest is payable for various circumstances mentioned in the clause. We propose that interest should be made applicable for justified instances @ 9% per annum at least. Please confirm acceptance.</p>	Bidder to follow tender terms and conditions
8	GCC BOP Rev. 00 GCTC	Cl. 10	33 of 99	<p>We do not agree to cross-fall obligations related to payment recovery. If there is any claim of BHEL in excess of the bills and BGs of present project, same may be taken up through Arbitration by BHEL. Unilateral deduction from any other contract is not acceptable.</p>	Bidder to follow tender terms and conditions
9	GCC BOP Rev. 00 GCTC	Cl. 12.1	34 of 99	<p>"Guarantee period for packages (excluding mandatory spares) shall be as stipulated in Special Conditions of Contract or otherwise, 12 calendar months from the date of handing over of the system Unit wise/Lot-wise/Stage-wise/Set-wise/ system wise (as applicable) to customer / BHEL, OR PG test of system (if applicable), whichever is later."</p> <p>This clause is not acceptable. BHEL to make change suitably to initiate guarantee period from bidder's notice for work completion, if the system is not taken over for BHEL's delay / other reasons not attributable to bidder / contractor.</p>	Bidder to follow tender terms and conditions

PRE-BID CLARIFICATIONS

SI No	Reference			Queries	BHEL REPLY
	Section	Chapter / Cl. No	Page No.		
10	GCC BOP Rev. 00 GCTC	Cl. 44	51 of 99	ORC limit of INR 1,00,000 is not acceptable and not workable. It shall be increased to at least INR 10,00,000 per month. Please confirm acceptance.	Bidder to follow tender terms and conditions
11	GCC BOP Rev. 00 GCTC	Cl. 46	51 of 99	We request for interest-free mobilization advance.	Bidder to follow tender terms and conditions
12	CORRIGENDUM- 01 Annexure VII to NIT	Cl. 3.1.2 b	6 of 27	We seek liberty to construct labour colony as per PCTL's standards and that should be allowed for the purpose of payments as well.	Bidder to follow tender terms and conditions
13	CORRIGENDUM- 01 Annexure VII to NIT	Cl. 3.2.1	7 of 27	Construction power shall be provided to Bidder free of cost at one point near the cooling tower site, at a distance of approx. 500 M. Please confirm the same.	Bidder to follow tender terms and conditions
14	CORRIGENDUM- 01 Annexure VII to NIT	Cl. 3.2.1	7 of 27	Kindly confirm that Construction water (free) will be provided at a distance of 500 m from cooling tower location for Cooling tower as well as for the Batching plant.	Bidder to follow tender terms and conditions
15	CORRIGENDUM- 01 Annexure VII to NIT	Cl. 3.10.1	9 of 27	Land availability has to be ensured by BHEL for office, store, fabrication, storage, bar bending yard etc. as per PCTL's requirements. Requirements will be shared during Kick Off Meeting. Please confirm.	Bidder to follow tender terms and conditions
16	CORRIGENDUM- 01 Annexure VII to NIT	Cl. 3.13.1	11 of 27	Construction power shall have to be available before start of work. It is not commercially viable to get the power connection 3 months after start of work. Please confirm.	Bidder to follow tender terms and conditions
17	CORRIGENDUM- 01 Annexure VII to NIT	Cl. 3.14.1	13 of 27	Construction water shall have to be available before start of work. It is not commercially viable to get the water connection 3 months after start of work. Please confirm.	Bidder to follow tender terms and conditions
18	SCC	Cl. 10	2 of 3	BHEL's GSTIN details are noted, however, we shall be requiring approval from BHEL with respect to additional place of business before we can start any work in the area to comply with GST norms.	BHEL GSTN certificate shall be provided

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
1.	Clause No. 42.3 Technical Specifications	42.3 Irrespective of the type of cooling tower (i.e. RCC/FRP cooling tower) , each riser pipe of Cooling Tower shall be connected to the Cooling Tower through a rubber expansion joint of the diameter same as that of the riser pipe and meeting the requirement of REJ as specified elsewhere in this specification. Rubber expansion joint is in Bidder scope	It is stated that the Rubber Expansion Bellow/Joint (REJ) is to be provided in the riser piping irrespective of whether it is a RCC or FRP IDCT. Kindly note that REJ is required in FRP IDCTs because the thrust from discharge of water into the duct cannot be absorbed by FRP members. Whereas the RCC HW duct can absorb this force of water discharge. This is why REJ is uncommon in RCC IDCTs, especially when the flow velocity is restricted to 2 m/s. Hence, please review the need for REJ for the RCC IDCT option as this adds to unnecessary cost.	Bidder to follow specification.

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
2.	Clause No. 2.16 Technical Specifications	2.16 Maximum IDCT Pumping head permissible, viz.static head plus frictional losses as below:..... - 20 MWC	<p>The permissible pumping head of 20 mWC is too high for this IDCT package. Please let us know whether the pumping head requirement can be optimized based on thermal design of the IDCT in this project. Obviously, the pump head is going to be much less than 20 mWC.</p> <p>In the above context, please note that Clause 3.01.00 on Page 25 of 143, Book 1 of 2 mentions of double inlet, counterflow type IDCT, which means that the required air inlet height is not going to be large enough to consume 20 mWC head. Please review and confirm that it's not necessary to consume the available pump head.</p>	<p>It is clarified that Maximum IDCT Pumping head permissible (as per Clause no- 2.16 of TECHNICAL DATA - PART - A (MECHANICAL) , page 20 of 143 of TECHNICAL_SPECIFICATION_BOOK_1_OF_2_(PART-1)) is 20 MWC inline with specification. Bidder to design IDCT system within this permissible value inline with specification.</p> <p>Bidder to follow specification.</p>
3.	Clause No. 3.7 Technical Specifications	3.7 Fan Motor rating Selection - Fan motor shall have atleast 10% margin over the maximum power requirement of fan when the fan is operating at its test block condition and at 50 deg. C ambient temperature as required at gear box input end.	<p>It is stated that 10% margin over power consumption at fan test block condition is to be considered. And Fan test block condition has 5% margin over design flow and 10% margin over design static pressure. This means that the motor selection should be made considering 10% margin over 5% margin over 10% margin, i.e. $1.1 * 1.05 * 1.1 = 1.27$. Please confirm that the motor rating must be chosen considering 27% margin on the motor shaft power consumption from thermal design.</p>	<p>Bidder to follow specification.</p>

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
4.	Annexure – 1 Circulating Water Analysis (with COC 5)	Circulating Water Analysis	<p>At COC 5 the following parameters exceed the permissible limits:</p> <p>a. Reactive Silica - 70 ppm</p> <p>b. BOD - 25 ppm (>5 is sewage water)</p> <p>c. Total Hardness (CaCO₃?) - 600 ppm (this is exceedingly high for even modular splash fills and splash fills with slots)</p> <p>In view of the above water quality, we are of the opinion that the PP Splash Grid is the only fill that can work without fouling. BHEL may please review and take an appropriate decision. Permitting all fills as specified will lead to quick fouling/scaling with the above circulating water quality. BOD and total Hardness as CaCO₃ needs control to prevent fouling/scaling of fills and distribution system.</p>	<p>Bidder to follow specification.</p> <p>For revised Circulating Water Analysis please refer Amendment-02.</p>
5.	Annexure – 3 IDCT Key Plan	IDCT Key Plan and Terminal Point details	<p>The IDCT co-ordinates in the N direction are 940.51 above and 780.51 below. Therefore, the length of the IDCT permissible is (940.51-78.51) 160 m. Similarly, the IDCT width permissible is (281.94 E - 236.94 E) 45 m. Please confirm.</p>	<p>“The referred dimensions are indicative only. However, the final permissible dimensions shall be subject to detailed engineering requirements, statutory clearances, and interfacing constraints”.</p>

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
6.	Geotechnical Report	Bore Log Data for IDCT	<p>6. This is a large IDCT that requires a Geotechnical report to enable us understand/ determine the foundation requirements. Please provide whatever soil/bore log data in the IDCT area or at least in its vicinity to help us understand the type of foundation possible. Presently, there is no correlation between the Bore Log data and the IDCT location.</p>	<p>Raw bore log data of IDCT area, from field investigation, is provided as per Amendment-02.</p>

Pre-bid queries

7.	Pre Qualifying Requirements (Technical)	<p>4.3.3 The Bidder who has independently constructed RCC cooling tower of capacity not less than 13,000 Cu.M/Hr can also participate along with its Holding company / Subsidiary/ Collaborator / Associate who in turn meets the requirements of clause 4.3.1 above.</p> <p>In such a case, the Bidder shall be required to furnish a Deed of Joint Undertaking executed by the Bidder and it's Holding company / Subsidiary / Collaborator / Associate for the successful performance of Cooling Tower, as per the format enclosed with the bidding documents. The Deed of Joint Undertaking (DJU) shall be submitted along with bid/offer. In case of award, Bidder and it's Holding company / Subsidiary / Collaborator / Associate shall each be required to furnish an on-demand bank guarantee for INR 7 million (Seven Million only) in addition to the contract performance security to be furnished by the bidder.</p>	<p>Please confirm the validity of the on demand bank guarantee of INR 7 million that to be furnished by both Bidder and Collaborator/ Associate.</p>	<p>Specification is very clear. Bidder to follow specification.</p>
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Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
8.	Clause No. 28 Release of payment NIT	Payment will be released within days as mentioned below after submission of complete documents as per clause no 9.6.2 – 9.6.5: c) 60 days for vendors qualified as Medium Enterprises as per MSMED Act.")	We request BHEL to release payment against monthly RA Bills within 30 days.	Bidder to follow tender terms & conditions.

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
9.	<p>Clause no. 51.4</p> <p>Technical Specifications for IDCT</p>	<p>51 BID EVALUATION CRITERIA</p> <p>51.4 No benefit will be given to Bidder, in case of reduction in actual quantity of Cement and reinforcement steel with respect to the quantities considered in bid evaluation.</p>	<p>Benefit should be given to Bidder, in case of reduction in actual quantity of Cement & reinforcement steel with respect to the respective quantities considered in bid evaluation.</p>	<p>Bidder to follow specification.</p>

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
10.	<p>Clause No. 3.14.1</p> <p>Construction Water</p> <p>Corrigendum 01</p>	<p>3.12.1 BHEL shall provide water supply free of cost (at single point source) for construction purpose as and when made available by customer/owner within 3 months from date of start of work for construction purpose. Contractor has to make arrangement of further distribution. However, contractor shall make alternate arrangement of construction water till the same is made available by BHEL.</p>	<p>We request you to provide uninterrupted supply of Water for construction within 50m of IDCT's Site, Fabrication yard, Batching Plant (Free of cost).</p>	<p>Bidder to follow tender terms & conditions.</p>

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
11.	<p>Clause No. 3.13.1</p> <p>Construction Power</p> <p>Corrigendum 01</p>	<p>3.13.1 Construction power (three phase, 415 V/ 440 V) shall be provided by BHEL free of cost at one point near the site at a distance of approx. 500M within 03 months from the date of start of work. Further, distribution shall be arranged by the contractor at his own cost and services.</p>	<p>We request you to provide uninterrupted supply of construction power within 50m at one point near IDCT's, 50m at one point near fabrication yard, 50m at one point near batching plant. Connections should be provided with handing over of work front to BIL (Free of Cost).</p>	<p>Bidder to follow tender terms & conditions.</p>
12.	<p>Clause no. 16.2.1 (a)</p> <p>Corrigendum – 1 to GCC - BOP (Rev. No. 00)</p>	<p>a) LD on mandatory spares - Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages if dispatch/delivery of the mandatory spares is delayed beyond the contractual completion date or</p>	<p>Please revise clause</p> <p>a) LD on mandatory spares- LD on mandatory spares portion where delivery for mandatory spares is defined separately in the NIT. LD shall be applicable @ ½ percent and applicable GST thereon, of the total mandatory spares portion contract value excluding GST per week or part thereof,</p>	<p>Bidder to follow tender terms & conditions.</p>

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
		extension thereof as per the period stipulated in the Order/ Contract and not by way of penalty, a sum equivalent to half (1/2) percent of the total contract price (mandatory spares) per week or part thereof, limited of ten (10) percent of the total contract price (mandatory spares) excluding GST.	limiting to 5% of total contract value of mandatory spares excluding GST	
13.	Clause no. 16.2.1 (b1) Corrigendum – 1 to GCC - BOP (Rev. No. 00)	(b1) LD on Supply- Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages if dispatch/delivery of the package (Main supply) is delayed beyond the contractual completion date or extension thereof as per the period stipulated in the Order/ Contract and not by way of penalty, a sum equivalent to half (1/2) percent of the total contract price (main supply) per week or part thereof, limited of ten (10) percent of the total contract price (main supply) excluding GST	Please revise clause: (b1) LD on Supply- Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages if dispatch/delivery of the package (Main supply) is delayed beyond the contractual completion date or extension thereof as per the period stipulated in the Order/ Contract and not by way of penalty, a sum equivalent to half (1/2) percent of the total contract price (main supply) per week or part thereof, limited of five (05) percent of the total contract price (main supply) excluding GST	Bidder to follow tender terms & conditions.

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
14.	<p>Clause no. 16.2.1 (b2)</p> <p>Corrigendum – 1 to GCC - BOP (Rev. No. 00)</p>	<p>(b2) LD on E&C- Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages if E&C completion of the package is delayed beyond the contractual completion date or extension thereof as per the period stipulated in the Order/ Contract and not by way of penalty, a sum equivalent to half (½) percent of the total contract price (supply+ E&C) per week or part thereof, limited to ten (10) percent of the total contract price (supply +E&C) excluding GST.</p> <p>However, total LD for delay in supply and E&C shall be limited to 10% of total contract price (supply + E&C) excluding GST.</p>	<p>Please revise clause:</p> <p>(b2) LD on E&C- Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages if E&C completion of the package is delayed beyond the contractual completion date or extension thereof as per the period stipulated in the Order/ Contract and not by way of penalty, a sum equivalent to half (½) percent of the total contract price (supply+ E&C) per week or part thereof, limited to five (05) percent of the total contract price (supply +E&C) excluding GST.</p> <p>However, total LD for delay in supply and E&C shall be limited to 05% of total contract price (supply + E&C) excluding GST.</p>	<p>Bidder to follow tender terms & conditions.</p>

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
15.	<p>Clause no. 16.2.1 (c)</p> <p>Corrigendum – 1 to GCC - BOP (Rev. No. 00)</p>	<p>(c) LD on service portion (PG test, O&M, AMC, etc.) where delivery for services are defined separately in the NIT. LD shall be applicable @ ½ percent of the total service portion contract value per week or part thereof limited to ten (10) percent of the total contract value of service portion excluding GST.</p>	<p>Please revise clause:</p> <p>(c) LD on service portion (PG test, O&M, AMC, etc.) where delivery for services are defined separately in the NIT. LD shall be applicable @ ½ percent of the total service portion contract value per week or part thereof limited to five (5) percent of the total contract value of service portion excluding GST.</p>	Bidder to follow tender terms & conditions.
16.	<p>Clause no. 10.0</p> <p>GCC - BOP (Rev No. 00)</p>	<p>RECOVERY OF OUTSTANDING AMOUNT</p> <p>ii. Dues payable to Seller against other contracts including SDs, BGs in the same Region/Unit/Division of BHEL.</p> <p>iii. Dues payable to Seller against other contracts including SDs, BGs in the different Region/Unit/Division of BHEL.</p>	<p>Please delete these clauses. This contract has to be treated independent of other contracts.</p>	Bidder to follow tender terms & conditions.
17.	<p>T&P List Annexure II to NIT</p>	<p><u>T&P List</u></p> <p>Concrete Batching Plant (60 Cum/Hr.) with three Nos. of Silos of 100 MT capacity each – 01 no. minimum</p>	<p>Please revise clause</p> <p>Concrete Batching Plant (30 Cum/Hr.) with two nos. of Silos of 100 MT capacity each – 01 no. minimum.</p>	Bidder to follow tender terms & conditions.

Pre-bid queries

Sl. No.	Reference Clause of Tender Document	Existing Provision	Bidder's Query/ Deviations requested	BHEL Reply
18.	Clause no. 32.3 GCC - BOP (Rev No. 00)	Seller/ Contractor shall continue to perform the order/ contract, pending settlement of dispute(s).	Please add the following wording to the clause: "unless the dispute is related to non-payment by the Purchase to the Seller in which case the Seller, at its discretion, shall be entitled to suspend performance of the order/contract"	Bidder to follow tender terms & conditions.
19.	Clause no. 5.2 GCC - BOP (Rev No. 00)	STATUTORY VARIATION No other variations such as on Custom Duty, exchange rate, minimum wages, prices of controlled commodities, any other input etc. shall be payable by the purchaser unless specifically agreed upon	The revision in minimum wages and price impact due to minimum wages should be compensated.	Bidder to follow tender terms & conditions.
20.	PRICE ADJUSTMENT-PVC payment terms & conditions Corrigendum 01	PVC shall be applicable only, during the extended period of contract (if any) after contractual completion period and for the portion of work delayed / backlog for the reasons not attributable to the Contractor.	The Contract price shall be subject to price variations during execution of the Contract to reflect changes in the cost of labour and material components etc.	Bidder to follow tender terms & conditions.

TECHNICAL QUERIES					
Sl.No	Document	Page Number	Description	Clarification	BHEL REPLY
1	CORRIGENDA01IDCTC2C	6 of 27, 3.1.1 Point e	Canteen facilities for the bidder's staff, supervisors and engineers etc.	Site office area and Canteen facilities are shall be provided by BHEL.	Bidder to follow tender terms & conditions.
2	TECHNICAL SPECIFICATION BOOK 1 OF 2 (PART-1)	7 of 143, Point 2.1	Concrete encased CW pipes to carry hot water from BHEL's terminal point to cooling tower	Please clarify whether hot water header pipe shall be encased with concrete from the terminal point to cooling tower inlet. Kindly indicate the cooling tower terminal point.	Bidder to follow specification.
3	TECHNICAL SPECIFICATION BOOK 1 OF 2 (PART-1)	7 of 143, Point 2.1	Inlet air louvers (if applicable) for cooling tower.	Air inlet louvers not applicable for counter flow type cooling towers. Spray catchers shall be provided at basin curb level.	Bidder to follow specification.
4	TECHNICAL SPECIFICATION BOOK 1 OF 2 (PART-1)	22 of 143, Point 4.8	Fill support : SS 316 grid	Please note that as per our design, the fills shall be supported by RCC / Pultruded FRP beams. Hence there is no separate requirement of SS 316 grid.	Bidder to follow specification.
5	TECHNICAL SPECIFICATION BOOK 1 OF 2 (PART-1)	25 of 143	All cells of the tower shall be identical.	We presume that all cells shall be of double air inlet, including the end cells. Kindly confirm.	Bidder to follow specification.
6	TECHNICAL SPECIFICATION BOOK 1 OF 2 (PART-1)	28 of 143, Sl.No. 16	Recovery stack : RCC	We request BHEL to accept FRP recovery stack in case of RCC cooling tower, as it would save considerably on the construction time.	Bidder to follow specification.
7	TECHNICAL SPECIFICATION BOOK 1 OF 2 (PART-2)	24 of 216, Sl.No. 3	FAN ASSEMBLY-COOLING TOWER	We request you to add Parag fans to the list, as the list is limited to 2 -3 vendors only.	Sub-vendor list provided in the specification is indicative inline with specification. Sub-vendors shall be subject to BHEL/Customer approval inline with specification. Bidder to follow specification.

COMMERCIAL QUERIES

Sl.No	Document	Page Number	Description	Clarification	BHEL REPLY
1	NIT	2 of 11	Delivery schedule : PG test: 2 months from BHEL Clearance after COD	This clause is generic in nature and we request BHEL to give a cut-off date from mechanical completion beyond which the payment towards PG test milestone shall be released, in case of delay due to reasons not attributable to supplier.	Bidder to follow tender terms & conditions.
2	NIT	3 of 11	Payment Terms for Civil Works	We request BHEL to consider an advance of 10 % for carrying civil works.	Bidder to follow tender terms & conditions.
3	NIT	4 of 11, Point no. 33	Reverse Auction (RA)	We request BHEL to remove this reverse auction clause.	Bidder to follow tender terms & conditions.
4	NIT	9 of 11	Only class I supplier (with local content 60% and above) Bidders to provide a certificate from statutory auditor giving the percentage of local content.	Please note that certification by a statutory auditor for future supplies is generally not being accepted by most of the auditor's. Hence we shall self-certify the same instead of statutory auditor or we shall get the certification from CA. Kindly confirm that it is acceptable.	Bidder to follow tender terms & conditions.
5	NIT	4 of 11	Payment terms for vendors qualified as medium enterprises as per MSMED act:	As per the latest MSMED act, the payment shall be released within 45 days for medium enterprises. Kindly confirm.	Bidder to follow tender terms & conditions.
6	Annexure 1 of NIT	1 of 158	PVC shall be applicable only, during the extended period of contract (if any) after contractual completion period and for the portion of work delayed / backlog for the reasons not attributable to the Contractor	As per this clause, we understand that PVC would be applicable after expiry of contractual completion period. We request BHEL to accept for PVC clause during actual contractual period also.	Bidder to follow tender terms & conditions.

Pre-bid Query	BHEL Reply
<p>1 Clause 42.3, Page 14 of 143, Book 1 of 2 It is stated that the Rubber Expansion Bellow/Joint (REJ) is to be provided in the riser piping irrespective of whether it is a RCC or FRP IDCT. Kindly note that REJ is required in FRP IDCTs because the thrust from discharge of water into the duct cannot be absorbed by FRP members. Whereas the RCC HW duct can absorb this force of water discharge. This is why REJ is uncommon in RCC IDCTs, especially when the flow velocity is restricted to 2 m/s. Hence, please review the need for REJ for the RCC IDCT option as this adds to unnecessary cost.</p>	<p>Bidder to follow specification.</p>
<p>2 Clause 2.16, Page 20 of 143, Book 1 of 2 The permissible pumping head of 20 mWC is too high for this IDCT package. Please let us know whether the pumping head requirement can be optimized based on thermal design of the IDCT in this project. Obviously, the pump head is going to be much less than 20 mWC. In the above context, please note that Clause 3.01.00 on Page 25 of 143, Book 1 of 2 mentions of double inlet, counterflow type IDCT, which means that the required air inlet height is not going to be large enough to consume 20 mWC head. Please review and confirm that it's not necessary to consume the available pump head.</p>	<p>It is clarified that Maximum IDCT Pumping head permissible (as per Clause no- 2.16 of TECHNICAL DATA - PART - A (MECHANICAL) , page 20 of 143 of TECHNICAL_SPECIFICATION_BOOK_1_OF_2_(PART-1)) is 20 MWC inline with specification. Bidder to design IDCT system within this permissible value inline with specification. Bidder to follow specification.</p>
<p>3 Clause 3.7, Page 21 of 143, Book 1 of 2 It is stated that 10% margin over power consumption at fan test block condition is to be considered. And Fan test block condition has 5% margin over design flow and 10% margin over design static pressure. This means that the motor selection should be made considering 10% margin over 5% margin over 10% margin, i.e. $1.1 * 1.05 * 1.1 = 1.27$. Please confirm that the motor rating must be chosen considering 27% margin on the motor shaft power consumption from thermal design.</p>	<p>Bidder to follow specification.</p>
<p>4 4. Circulating Water Analysis, Page 2 of 216, Book 2 of 2 At COC 5 the following parameters exceed the permissible limits: a. Reactive Silica - 70 ppm b. BOD - 25 ppm (>5 is sewage water) c. Total Hardness (CaCO₃?) - 600 ppm (this is exceedingly high for even modular splash fills and splash fills with slots) In view of the above water quality, we are of the opinion that the PP Splash Grid is the only fill that can work without fouling. BHEL may please review and take an appropriate decision. Permitting all fills as specified will lead to quick fouling/scaling with the above circulating water quality. BOD and total Hardness as CaCO₃ needs control to prevent fouling/scaling of fills and distribution system.</p>	<p>Bidder to follow specification. For revised Circulating Water Analysis please refer Amendment-02.</p>
<p>5 IDCT Key Plan, Annexure-3, Page 4 of 216, Book 2 of 2 The IDCT co-ordinates in the N direction are 940.51 above and 780.51 below. Therefore, the length of the IDCT permissible is (940.51-78.51) 160 m. similarly, the IDCT width permissible is (281.94 E - 236.94 E) 45 m. Please confirm.</p>	<p>The referred dimensions are indicative only. However, the final permissible dimensions shall be subject to detailed engineering requirements, statutory clearances, and interfacing constraints.</p>
<p>6 This is a large IDCT that requires a Geotechnical report to enable us understand/determine the foundation requirements. Please provide whatever soil/bore log data in the IDCT area or at least in its vicinity to help us understand the type of foundation possible. Presently, there is no correlation between the Bore Log data and the IDCT location. Also, please let us know whether the Net SBC given on Page 739 of 920 of Tender Binder applies to the IDCT package. In case the IDCT is in either rocky or marshy area, please provide the appropriate bore log data with SBC recommendations.</p>	<p>Raw bore log data of IDCT area, from the ongoing field investigation is enclosed in Amendment-02.</p>