

Ref No. : PE/PG/YE1/E-5255/2016/CORRIGENDA/02

Date: 24.06.2016

CORRIGENDA / ADDENDUM-02

**SUBJECT: 1 X 370 MW KPCL YELAHANKA CCPP
TENDER ENQUIRY FOR COOLING TOWER (IDCT)
OUR REF: TENDER ENQUIRY NO: PE/PG/YE1/E-5255/2016, DATED- 06.06.2016**

1. Delivery mentioned at SI no-17 at page-4of7 of NIT shall be read as:-

Total Delivery completion for both Supply and E&C shall be 14 months from date of LOA.

Mandatory Spares to be delivered within Six (06) months from Manufacturing clearance. Separate dispatch/manufacturing clearance will be issued for Mandatory Spares

Drawing submission schedule shall be as per Cl. No 16.00 of Section I, Sub section IA of technical specification Book 1.

Following basic drgs/docs to be submitted within 2 weeks from LOA date.

- DESIGN BASIS REPORT
- GA OF IDCT
- THERMAL SIZING & PUMPING HEAD CALCULATIONS
- TECHNICAL DATASHEET

Remaining following categories drgs/docs to be submitted progressively within 12 weeks from LOA date.

- SUB-STRUCTURE DRGS/DOCS (Including civil construction drgs) – Within 6 weeks from LOA date.
- SUPER-STRUCTURE DRGS/DOCS (Including civil construction drgs)
- ELECTRICAL DRGS/DOCS
- C&I DRGS/DOCS

Subsequent revisions of above drgs/docs to be submitted within 7 days of comments received from BHEL.

Number of days delay in submission of complete documents during approval process, on account of this, would be reduced from the delivery.

Milestones for delivery completion are as below:

- Supply of all items shall be progressively completed by bidder within 7 to 10 months from the date of LOA. Priority will be decided during kick-off meeting.
- Readiness of Civil works (upto Fan cylinder) by BHEL shall be progressively completed in 8 to 12 months from the date of LOA. Vendor to ensure availability of inputs to make it happen.
- Complete, erection & commissioning by bidder within 14 months from the date of LOA

2. Please read LOI as LOA wherever used in NIT documents.



Please reply to:

Sh Sumeet Sahay, Sr. Engineer
PG-I-2

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
BHEL-PEM,Noida-201301 (U.P.)
Tel No.0120-4213532, 09999498202

Ref No. : PE/PG/YE1/E-5255/2016/CORRIGENDA/02

Date: 24.06.2016

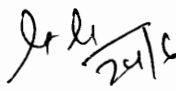
3. Please find Amendment II to Technical Specification.
4. Please find Revision 2 to Price Schedule.
5. Please find Annexure I to Corrigenda 2 for replies against all pre-bid queries.
6. Please note that no extension will be given for bid submission and please ensure your offer submission by due date.

All future amendment and due date extension, if any, for this tender shall be hosted only on above website.

Thanking You,

With Regards,

For & on behalf of BHEL


Sumeet Sahay
Sr Engineer/PG-I-2

सुमीत सहाय / SUMEET SAHAY
वरिष्ठ अभियन्ता (पी.जी.-I-2)/Sr. Engineer (PG-I-2)
भारत भारी इलेक्ट्रिकल्स लिमिटेड/Bharat Heavy Electricals Ltd.
पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन
Power Sector-Project Engineering Management
प्लॉट नं.-25, सेक्टर-16ए, नोएडा-201 301
Plot No: 25, Sector -16A, Noida-201 301

Please reply to:

**Sh Sumeet Sahay, Sr. Engineer
PG-I-2**

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
BHEL-PEM,Noida-201301 (U.P.)
Tel No.0120-4213532, 09999498202



ANNEXURE - I TO NIT REF NO. - PE/PG/YE/IE-5255/2016, DTD-06.06.2016

1 X 370 MW YELAHANKA CCPP (KPCL)

PRICE SCHEDULE FOR COOLING TOWER (IDCT)

INDIAN BIDDER				SUPPLY						E&C			GRAND TOTAL
SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /IE/II (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	SUPERVISION OF CIVIL WORKS/E & C & PG TESTING CHARGES (including Trial run, etc.) (INR)	SERVICE TAX @ % (INR)	SUPERVISION OF CIVIL WORKS/E & C & PG TESTING CHARGES (including Trial run, etc.) INCLUDING SERVICE TAX (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY AND E&C WITH SERVICE TAX. (INR)
				1	2	3	4	5	6=2+3+4+5	7	8	9=7+8	10=6+9
1.0	Prices for One (1) no. Induced Draft Cooling Tower to be covered under the following Three heads only)	NO	1.00										
1.1	Total Price for Design, Manufacture, Inspection/ Testing, Supplies, Packing for transportation & delivery , complete with commissioning spares/ special tools and tackles/ including all mandatory spares, accessories & equipments as specified and as necessary for completion for One (1) number Cooling Tower. (SUPPLY)												
1.2	Total price for receipt at site, handling, storage & erection of supply items, and testing, Commissioning, trial run, PG test, handling over etc. complete with all accessories for Complete Cooling Tower as per the specification for one no (01) of Cooling Tower (E&C)												
1.3	Total price for supervision of site civil works (Concrete & Reinforcement Steel in BHEL scope) (4 Nos. site visits of One week each)												
2.0	BREAK UP OF PRICES												
2.1	Break up of St.No. 1.1												
a)	Design and engineering												
b)	Manufacture and supply of following :												
b1)	Complete mechanical equipments												
b2)	Complete electrical and C&l equipments												
b3)	Mandatory Spares												
2.2	Break up of St.No. 1.2												
c)	Erection & Commissioning of following :												
c1)	Complete mechanical equipments												
c2)	Complete electrical and C&l equipments												
d)	Performance Guarantee testing												
2.3	Break up of St.No. 1.3												
e)	Price for supervision of site civil works												
e1)	Charges Per visit	NO	4										
e1)	Charges Per manday	NO	28										
	Total Sl. No.2 = (a+b+c+d+e)												
3.0	Concrete & reinforcement Steel is in BHEL scope. Bidder to indicate Total BOQ for one (01) no. CT as follows for determining the total cost of CT.												
	Description	UOM	QTY										

Handwritten signature

SL NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /EI/EII (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	SUPERVISION OF CIVIL WORKS/E & C & PG TESTING CHARGES (including Trial run, etc.) (INR)	SERVICE TAX @ % (INR)	SUPERVISION OF CIVIL WORKS/E & C & PG TESTING CHARGES (including Trial run, etc.) INCLUDING SERVICE TAX (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY AND E&C WITH SERVICE TAX. (INR)
3.1	All RCC works for IDCT Foundation, cold water basin, columns, beams, wall, inlet channel, paving, drain slab, fan deck, fan stack, precast components, fill supporting structures, hot water channel, fins etc., excluding encasement RCC work of hot water header, of Grade M30.	Cum											
3.2	Steel Reinforcement of grade Fe-500 HYSD confirming to IS: 1786 in all RCC works. Tonnage of reinforcement shall be calculated as per drawing (Steel used in laps, chairs, anchorage etc. shall not be considered for calculation of tonnage).	MT											
4.0	Price for site visit (per manday basis) (Optional and additional, apart from that included in 1.0 above))												
	i) Bidders Total price shall be determined after adding cost of Concrete & reinforcement Steel at following rates (as per Terms & conditions), in his total quoted prices at S. No. 1 above.												
	• All RCC works for IDCT Foundation, cold water basin, columns, beams, wall, inlet channel, paving, drain slab, fan deck, fan stack, precast components, fill supporting structures, hot water channel, fins etc. of Grade M30.												
	NOTES • Steel Reinforcement of grade Fe-500 HYSD confirming to IS: 1786 in all RCC works. Tonnage of reinforcement shall be calculated as per drawing (Steel used in laps, chairs, anchorage etc. shall not be considered for calculation of tonnage)												
	ii) Prices of commissioning & erection spares shall be included in the price of cooling tower.												
	iii) Bidder to note that any tax/duties etc of any nature not listed above and asked after Part-1 opening shall not be considered.												
	iv) Bidder to specify the rates & nature of other taxes & duties.												

[Handwritten Signature]

सुमीत साहू / SUMIT SAHAY
 सहायक अभियन्ता (सी.ई.-1/2) / Sr. Engineer (PG-1-2)
 भारत होम एंजिनियरिंग लिमिटेड / Bharat Home Engineering Ltd.
 पावर सेक्टर-प्रियोजना प्रबंधन
 Power Sector-Project Engineering Management
 प्लॉट नं.-25, सेक्टर-16 ई, गेट-1, 20, 301
 पिन कोड- 25, Sector-16E, GATE-1, 20, 301

ANNEXURE - II TO NIT REF NO - PE/PG/YE/1E-5255/2016, DTD-06.06.2016



1 X 370 MW YELAHANKA CCPP (KPCL)

PRICE SCHEDULE FOR COOLING TOWER (IDCT) - MANDATORY SPARES

INDIAN BIDDER								
S. No	Spares	Quantity	Remark	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /E/IE/II (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)
				1	2	3	4	5
1.0	INDUCED DRAFT COOLING TOWER-MANDATORY SPARES							6=2+3+4+5
1.1	Fan bearings	Set	Two (2)					
1.2	Fan blade assembly	Set	One (1)					
1.3	Motor bearings	Set	One (1)					
1.4	Gear box assembly	Set	One (1)					
1.5	Fan drive shaft	Set	One (1)					
1.6	Oil seals / O-rings		50% of total requirement					
1.7	Spray nozzles		10% of total requirement					
TOTAL								

सुमीत शर्मा / SUMET SAHAY

वरिष्ठ अभियन्ता (सी.जी.-1-2)/Sr. Engineer (PG-1-2)

भारत हेवी इलेक्ट्रिकल्स लिमिटेड/Bharat Heavy Electricals Ltd.

पावर सोल्यूशन्स विभाग/Power Solution Division

पावर सोल्यूशन्स इंजीनियरिंग मैनेजमेंट

Power Solution - Project Engineering Management

प्लॉट नं.-25, फ्लैट-15B, गैंगुली-201304

Plot No. 25, Sector-15B, Noida-201304

ANNEXURE - I TO NIT REF NO. - PE/PG/VE/IE-5259/2016, DTD-06.06.2016

1 X 370 MM YELAHANKA CCPP (KPCL)

PRICE SCHEDULE FOR COOLING TOWER (IDCT) - SUPPLY, E&C AND MANDATORY SPARES

FOREIGN BIDDER				IMPORTED ITEMS (Supply not from Indian Territory)										INDIGENEOUS ITEMS (Supply from Indian Territory)								E&C		GRAND TOTAL
Sl. NO	ITEM DESCRIPTION	UOM	TOTAL QTY	UNIT F.O.B. PRICE (INCLUDING SEAWORTHY PACKING, HANDLING AND TRANSPORTATION TO VENDOR'S OWN PORT.) (CURRENCY)	TOTAL F.O.B. PRICE (INCLUDING SEAWORTHY PACKING, HANDLING AND TRANSPORTATION TO VENDOR'S OWN PORT.) (CURRENCY)	OCEAN FREIGHT (CURRENCY)	OCEAN / MARINE INSURANCE	CUSTOM DUTY AFTER AVAILING CENVAT BENEFIT IF APPLICABLE (INR)	INLAND FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.R. SITE IMPORTED ITEMS SUPPLY PRICE (CURRENCY + INR)	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /EEII (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R. SITE PRICE (INR)	SUPERVISION OF CIVIL WORKS E&C & PG TESTING CHARGES (INCLUDING TRAIL RUN, ETC.) (INR)	SERVICE TAX @ % (INR)	SUPERVISION OF CIVIL WORKS E&C & PG TESTING CHARGES INCLUDING SERVICE TAX (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY AND E&C WITH SERVICE TAX. (INR)				
				1	2	3	4	5	6	7=2+3+5+6	8	9	10	11	12	13=8+10+11+12	14	15	16=14+15	17=7+13+16				
1.0	Prices for One (1) no. Induced Draft Cooling Tower to be covered under the following Three heads only)	NO	1.00				BHEL SCOPE																	
1.1	Total Price for Design, Manufacture, Inspection/ Testing, Supplies, Packing for transportation & delivery , complete with commissioning spares/ special tools and tackles/ including all mandatory spares, accessories & equipments as specified and as necessary for completion for One (1) number Cooling Tower. (SUPPLY)						BHEL SCOPE																	
1.2	Total price for receipt at site, handling, storage & erection of supply items, and testing, Commissioning, trial run, PG test, handing over etc. complete with all accessories for Complete Cooling Tower as per the specification for one no (01) of Cooling Tower (E&C)																							
1.3	Total price for supervision of site civil works (Concrete & Reinforcement Steel in BHEL scope) (4 Nos. site visits of One week each)																							
2.0 BREAK UP OF PRICES																								
2.1	Break up of Sr.No. 1.1																							
a)	Design and engineering																							
b)	Manufacture and supply of following :																							
b1)	Complete mechanical equipments						BHEL SCOPE																	
b2)	Complete electrical and C&I equipments																							
b3)	Mandatory Spares																							
2.2	Break up of Sr.No. 1.2																							
c)	Erection & Commissioning of following :																							
c1)	Complete mechanical equipments						BHEL SCOPE																	
c2)	Complete electrical and C&I equipments																							
d)	Performance Guaranteee testing																							
2.3 Break up of Sr.No. 1.3																								
e)	Price for supervision of site civil works																							
e1)	Charges Per visit	NO	4																					
e1)	Charges Per manday	NO	28				BHEL SCOPE																	
Total Sl. No.2 = (a+b+c+d+e)																								
3.0	Concrete & reinforcement Steel is in BHEL scope. Bidder to indicate Total BOQ for one (01) no. CT as follows for determining the total cost of CT.																							
	Description	UOM	QTY																					
3.1	All RCC works for IDCT Foundation, cold water basin, columns, beams, wall, inlet channel, paving, drain slab, fan deck, fan stack, precast components, fill supporting structures, hot water channel, fins etc. excluding encasement RCC work of hot water header, of Grade M30	CUM					BHEL SCOPE																	
3.2	Steel Reinforcement of grade Fe-500 HYSD conforming to IS: 1786 in all RCC works. Tonnage of reinforcement shall be calculated as per drawing (Steel used in laps, chairs, anchorage etc. shall not be considered for calculation of tonnage).	MT																						
4.0	Price for site visit (per manday basis) (Optional and additional, apart from that included in 1.0 above))																							
i) Bidders Total price shall be determined after adding cost of Concrete & reinforcement Steel at following rates (as per Terms & conditions) in the total quoted prices at S. No. 1 above																								
ii) All RCC works for IDCT Foundation, cold water basin, columns, beams, wall, inlet channel, paving, drain slab, fan deck, fan stack, precast components, fill supporting structures, hot water channel, fins etc. of Grade M30																								
- Steel Reinforcement of grade Fe-500 HYSD conforming to IS: 1786 in all RCC works. Tonnage of reinforcement shall be calculated as per drawing (Steel used in laps, chairs, anchorage etc. shall not be considered for calculation of tonnage)																								
iii) Prices of commissioning & erection spares shall be included in the price of cooling tower.																								
iv) Bidder to note that any tax/duties etc. of any nature not listed above and asked after Part-1 opening shall not be considered.																								
v) Bidder to specify the rates & nature of other taxes & duties.																								

i) Bidders Total price shall be determined after adding cost of Concrete & reinforcement Steel at following rates (as per Terms & conditions) in his total quoted prices at S. No. 1 above.

ii) All RCC works for IDCT Foundation, cold water basin, columns, beams, wall, inlet channel, paving, drain slab, fan deck, fan stack, precast components, fill supporting structures, hot water channel, fins etc. of Grade M30.

iii) Steel Reinforcement of grade Fe-500 HYSD conforming to IS: 1786 in all RCC works. Tonnage of reinforcement shall be calculated as per drawing (Steel used in laps, chairs, anchorage etc. shall not be considered for calculation of tonnage).

iv) Prices of commissioning & erection spares shall be included in the price of Cooling tower.

v) Bidder to note that any tax/duties etc. of any nature not listed above and asked after Part-1 opening shall not be considered.

सुनील कुमार / SUNEEL KUMAR
 अधिकारी, एन.पी.ए. (2) / Sr. Engineer (E-2)

 शक्ति ही इलेक्ट्रिकल लिमिटेड / Shakti Heavy Electricals Ltd.
 कार्यालय: इलेक्ट्रिकल इंडस्ट्री इरिगेशन प्रभाग

 कार्यालय: इलेक्ट्रिकल इंडस्ट्री इरिगेशन प्रभाग
 Power Section, Irrigated Engineering Management

 कार्यालय: इलेक्ट्रिकल इंडस्ट्री इरिगेशन प्रभाग
 कार्यालय: इलेक्ट्रिकल इंडस्ट्री इरिगेशन प्रभाग

 कार्यालय: इलेक्ट्रिकल इंडस्ट्री इरिगेशन प्रभाग
 कार्यालय: इलेक्ट्रिकल इंडस्ट्री इरिगेशन प्रभाग



REV 02

ANNEXURE - II TO NIT REF NO. - PE/PGYE/1E-5255/2016, DTD-06.06.2016

1 X 370 MW YELAHANKA COPP (KPCL)

PRICE SCHEDULE FOR COOLING TOWER (IDCT) - MANDATORY SPARES

FOREIGN BIDDER				IMPORTED ITEMS (Supply not from Indian Territory)					INDIGENEOUS ITEMS (Supply from Indian Territory)					GRAND TOTAL					
S. No	Spares	Quantity	Remark	UNIT F.O.B. PRICE (INCLUDING SEAWORTHY PACKING; HANDLING AND TRANSPORTATION TO VENDOR'S OWN PORT.) (CURRENCY)	1	2	3	4	5	6	F.O.R. SITE IMPORTED ITEMS SUPPLY PRICE (CURRENCY + INR)	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST/VAT @ % Against Form 'C' /E/EEI (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY OF MANDATORY SPARES. (INR)	
1.0	INDUCED DRAFT COOLING TOWER - MANDATORY SPARES																		
1.1	Fan bearings	Set	Two (2)					BHEL SCOPE											
1.2	Fan blade assembly	Set	One (1)																
1.3	Motor bearings	Set	One (1)																
1.4	Gear box assembly	Set	One (1)																
1.5	Fan drive shaft	Set	One (1)																
1.6	Oil seals / O-rings		50% of total requirement																
1.7	Spray nozzles		10% of total requirement																
TOTAL																			

22/2/16

सुनील साहय / SUMEET SAHAY
वरिष्ठ अभियन्ता (सी.सी.टी-2)/अ. अभियन्ता (प्रा.प्रा.प्रा.)
भारत हेवी इलेक्ट्रिकल्स लिमिटेड / Bharat Heavy Electricals Ltd.
पावर सेक्टर-परियोजना इंजीनियरिंग प्रभाग
Power Sector-Project Engineering Management
प्लॉट नं.-25, सेक्टर-18ए, नोड्डा-201 301
PGI No. 25, Sector-18A, Noida-201 301

ANNEXURE I TO CORRIGENDA 02 TO TENDER ENQUIRY NO: PE/PG/YE1/E-5255/2016, DATED- 06.06.2016

S.No.	Reference		Description	Query	Clarification
	Section	Cl.no			
1	NIT	17	Delivery	From the tender specification, we understand that all civil work is excluded from our scope. In such case, delivery / erection completion period should be linked with the handing over of complete civil work by Purchaser to the Bidder. Please modify the mentioned period suitably.	Please follow NIT Delivery Terms
2	NIT			Reverse auction process is not acceptable to us.	Decision for going for RA or Price Bid opening will be informed after techno-commercial evaluation. However bidders to quote their best prices.
3	NIT	44	Civil Works	We understand that all civil construction work for cooling tower and other associated works like site preparation, levelling, excavations, construction of roads, drains etc. including supply of construction materials for the same are excluded from bidder's scope. Please confirm.	For scope clarity refer Tech Spec Section I
4				We understand that the guaranteed quantities of concrete and reinforcement steel should include only cooling tower superstructure and CW basin and CW channel upto specified terminal point. Civil quantities for pipe encasement, roads, drains, etc are not to be included in the same. Please confirm.	Bidders understanding is correct
5	GCC	Clause 5.4	Any new tax structure (like Goods & Services Tax) as and when implemented by the Government shall become applicable in addition to or in lieu of existing tax structure.	Any statutory variations or introduction of fresh levies / new tax both within or beyond contractual period will be to Purchaser's account. Kindly confirm.	Please follow GCC Rev 06
6	GCC	Clause 9.3.3 & 9.4.3	Payment Terms for Turnkey Packages (E&C in Vendor's scope)	Please confirm that last 10% payments against each of Supply and E&C portions, please confirm that in case PG test is delayed beyond 60 days from mechanical completion & trial run of cooling tower, for reasons not attributable to Contractor, will be released against submission of Bank guarantee(s) of equivalent amount(s).	Please follow GCC Rev 06



ANNEXURE I TO CORRIGENDA 02 TO TENDER ENQUIRY NO: PE/PG/VE1/E-5255/2016, DATED- 06.06.2016

S.No.	Reference		Description	Query	Clarification
	Section	Cl.no			
7	GCC	Clause 9.3.3 & 9.4.3	Payment Terms for Turnkey Packages (E&C in Vendor's scope)	We will expect 10% of total contract value as interest-free advance with order against equivalent bank guarantee. The ABG will be of reducing nature and its value will be reduced quarterly by the amount of advance adjusted during the previous quarter.	Please follow GCC Rev 06
8	GCC	Clause # 10	Recovery of outstanding amount	Stipulation regarding recovery of outstanding payment for one contract from payment due for another contract is not acceptable to us.	Please follow GCC Rev 06
9	GCC	Clause # 12	Guarantee period	The cooling tower components will be guaranteed against defects in materials, workmanship and deficiency in performance for a period of 12 months from commissioning or 18 months from the date of arrival of last major consignment at site, whichever is earlier.	Please follow GCC Rev 06
10	GCC	Clause # 16.2.2	Purchaser reserves the right.....at the discretion of the Purchaser.	In case of any such happening, any decision taken by Purchaser should be based on mutual agreement between the Purchaser and the Contractor..	Please follow GCC Rev 06
11	GCC	Clause # 17.0	Insurance	Third party liability will not be covered by us. We are sure that third party liability will be covered in your project insurance cover.	Please follow GCC Rev 06
12	GCC	Clause # 29.3	Force majeure	The term "force majeure" as defined in this clause is not acceptable to us. The term "force majeure" must be used in its widest sense and must embody all unforeseen circumstances which are beyond our reasonable control.	Please follow GCC Rev 06
13	GCC	Clause # 32.0	Arbitration	This should be by joint arbitration method only.	Please follow GCC Rev 06
14	GCC / Annexure IV	Contract Performance Bank Guarantee	Paragraph 3)	This needs modification to suit both Purchaser and Contractor. This may be mutually discussed and settled at an appropriate stage.	Please follow GCC Rev 06
15	Price Schedule; Rev - 01	Sr. no. 1.1	Service Tax on Design & Engineering and Transportation	We presume service tax on Design & Engineering and Transportation will be also reimbursed by Purchaser. Kindly provide space for indicating the service tax on the same in the price schedule.	Bidder to quote including Service Tax on Design, Engineering & Transportation.



ANNEXURE I TO CORRIGENDA 02 TO TENDER ENQUIRY NO: PE/PG/YE1/E-5255/2016, DATED- 06.06.2016

S.No.	Reference		Description	Query	Clarification
	Section	Cl.no			
16	Price Schedule; Rev - 01			Octroi / Entry Tax should be extra at actuals. Please confirm.	Noted
17	Price Schedule; Rev - 01		Editable Copy	Please furnish editable soft copy of the revised price schedule for convenience.	Same is uploaded on website
18	Special Conditions of Contract	Clause 23	Form - C for claiming concessional sales tax....	We understand C-Form will be issued by Purchaser for claiming concessional sales tax. Also confirm that road permit, if required, will be furnished by Purchaser to enable us charge concessional rate of CST.	Yes
19	Section - I; Sub-section - IA	Clause 1.01.02; Scope (C&I)	Specific scope C&I....Sub-section IC	Specification in sub-section IC is generic. Please furnish detailed scope for instruments or else please furnish cooling tower P&ID / scope demarkation drawing (for instrumentation) to enable us consider our C&I scope correctly.	Field instruments (min) shall be as per technical specification. However any additional instrument (if req) shall be supplied by bidder.
20			Approved Vendor list	Please furnish approved vendor list, if any.	shall be finalized during detailed engineering
21	Section - I; Sub-section - IA	Clause 9.00.00	Performance Guarantee and liquidated damage	The rates for L/D mentioned in this clause are highly disproportionate to the size and price of the cooling tower on offer. We can accept L/D @ 1% of the contract value (excluding spare parts, taxes, duties and freight) per 1% shortfall in capacity as established by the performance test, co-related to design temperature and guaranteed fan power consumption and subject to maximum 10% of the contract value (excluding spare parts, taxes, duties and freight). L/D for fan power is irrelevant as the performance will be co-related to guaranteed power.	Bid specification stands
22	Section - I; Sub-section - IA	Datasheet-A; Clause 8.2	External surface – Buried piping: c) Underground pipes shall be encased in RCC with minimum thickness of 250 mm.	Since all civil works are excluded from bidder's scope, we understand that excavation, encasing and backfilling for underground header will be done by others. Please confirm.	Bidders understanding is correct

gpr

ANNEXURE I TO CORRIGENDA 02 TO TENDER ENQUIRY NO: PE/PG/YE1/E-5255/2016, DATED- 06.06.2016

S.No.	Reference		Description	Query	Clarification
	Section	Cl.no			
23	Section - I; Sub-section - IA	Clause 11 of Datasheet-A	Mandatory Spares	We presume there is no electrical and C&I items to be considered as mandatory spares in addition to the mechanical items specified in this list. Please confirm.	Mandatory spares shall be as per technical specification
24	Section - I; Sub-section - IA	Datasheet-A; Clause 9.13	All testing instruments by supplier : Yes	Instruments required for performance testing of cooling tower will remain bidder's property. Same will be taken back after completion of performance test at site.	Noted
25	Section - I; Sub-section - IB	Note 4 of Scope Matrix	Vendor shall indicate location of Electronic Earth pit in civil assignment drawing.	Since PLC & Control room are outside bidder's scope we presume that electronic earth pit will be outside bidder's scope. Please confirm.	Bidders understanding is correct.
26	Section - I; Sub-section - IC	Clause no. 2.16/ Page 8 of 55	General Guidelines for Provision of Instruments FIELD INSTRUMENTS SHALL BE SUPPLIED AS PER AGREED PID:	P&I D is not available with the specification. Please furnish relevant documents to enable us ascertain our C&I scope.	Field instruments (min) shall be as per technical specification. However any additional instrument (if req) shall be supplied by bidder.
27				Please confirm that our scope of instrument cables will terminate at a common field junction box located at the ground level at the base of the cooling tower and all cables beyond this junction box to Purchaser's control system is outside our scope limit.	Bidders understanding is correct.
28				We understand that riser isolation valves are manually operated. However, please confirm whether limit switch will be required or not.	Bidders understanding is correct, limit switches not applicable.
29				Please clarify whether UPS supply is in our scope or not. In case it is in bidder's scope, detailed location of UPS along with UPS power distribution scheme to different areas, UPS DB & associated cabling scope has to be clarified.	UPS not applicable

[Handwritten signature]

ANNEXURE I TO CORRIGENDA 02 TO TENDER ENQUIRY NO: PE/PG/YE1/E-5255/2016, DATED- 06.06.2016

S.No.	Reference		Description	Query	Clarification
	Section	Cl.no			
30		Geotechnical Investigation Report (Document No. PE-DC-409-602-C001, R03)	Bearing Capacity	We will furnish the guaranteed quantity of Concrete (RCC) and reinforcement steel based on the soil data furnished. Any variation of these data during execution leading to increase in the guaranteed civil quantities should not be loaded on us.	Noted.
31	NIT, sl.no.17		Following basic drgs / docs to be submitted within 3 weeks from LOI date. . Design basis report . GA of IDCT . Thermal sizing and pumping head calculations . Technical datasheet	As per cl.no.16.00 of section I, sub section IA of tech specs, it is indicated that within 2 weeks of LOI date, these drgs / docs have to be submitted. Kindly clarify which clause governs.	Follow Tech Spec
32	NIT, sl.no.17		Remaining following categories drgs / docs to be submitted progressively within 12 weeks from LOA date. . Sub-structure drgs / docs (including civil construction drgs) - within 6 weeks from LOA date. . Super-structure drgs / docs (including civil construction drgs) . Electrical drgs / docs . C & I drgs / docs	As per cl.no.16.00 of section I, sub section IA of tech specs, it is indicated that within 12 weeks of LOI date, these drgs / docs have to be submitted. Kindly clarify whether it is LOA or LOI. If it is from LOA, please clarify the time gap between issue of LOI and LOA. Please also note that the date of submission of these drgs / docs would be based on receipt of the approved GA drg & civil DBR.	Only LOA will be issued. Drg/Doc submission/re-submission to be followed as per spec. Linking of same with approval of GA & Civil DBR is not acceptable
33	NIT, sl.no.17		Complete erection and commissioning by bidder within 14 months from the date of LOA.	Please note that the erection and commissioning would start from the date of handing over of civil works complete in all aspects, by BHEL. Please confirm.	Please follow NIT delivery terms

[Handwritten signature]

ANNEXURE I TO CORRIGENDA 02 TO TENDER ENQUIRY NO: PE/PG/YE1/E-5255/2016, DATED- 06.06.2016					
S.No.	Reference		Description	Query	Clarification
	Section	Cl.no			
34	GCC, rev.06, page 9 of 22, clause no.9, payment terms		9.2 : Supply packages with PG test at site in vendor's scope 9.3 : Supply payment for turnkey packages (E & C in vendor's scope) 9.4 : Erection & commissioning payment for turnkey packages	Please clarify which clause would be applicable for this package (whether 9.2 & 9.3 or 9.3 & 9.4 clause would be applicable). If clause 9.3 is to be followed for supply part, then the note for PG test indicated under 9.2.3 would also be applicable against this clause. Kindly confirm.	9.3 & 9.4 will be applicable
35	Annexure - X (rev.01) of GCC, rev.06, sl.no.31		PG test required as per customer contract : No	Please confirm if the PG test is not required but as per section IA, clause no.13.01.00, PG test is to be conducted by bidder.	PG test shall be conducted by bidder
36	Annexure - I to NIT (price schedule), notes, sl.no.i)		All RCC works for IDCT foundation,..... to be taken from BHEL PSSR; Steel reinforcement..... To be taken from BHEL-PSSR	This clause is not clear as the concrete works and steel is excluded from bidder's scope.	Refer Price Format Rev 01 & NIT cl no-44
37	Tech specs, book 1 of 2, Section - I, sub-section I A, clause no.1.00.00		Scope of equipment and works	Please specify clearly the items to be supplied under "any specialised construction / erection materials" etc.,	Two sets of curved section surface are already specified. Bidder to also consider any other specialized erection/shuttering material, tools & tackles as per their design.
38	Tech specs, book 1 of 2, Section - I, sub-section I A, clause no.1.00.00		Scope of equipment and works	Please specify clearly the items to be supplied under the head "any specialised erection and shuttering material, tools and tackles etc." The tools and tackles shall be supplied by us as part of the erection and commissioning. Apart from that, please clarify the additional tools & tackles to be supplied.	
39	Tech specs, book 1 of 2, Section - I, sub-section I A, clause no.1.00.00		Any specialised erection and shuttering materials (including two sets curved section surfaces for fan stack), tools and tackles etc, as required for civil and mechanical construction.	Please specify if the shuttering materials is required to be supplied to BHEL or to be supplied on loan basis. Please also specify the tools and tackles required to be supplied for civil and mechanical construction.	
40	Tech specs, book 1 of 2, Section - I, sub-section I A, clause no.13.04.00, sl.no. b)		Terminal point for cold water outlet header	Please confirm that this point is not applicable as the civil construction is not in our scope.	Terminal points are applicable for civil design, supply of items, E&C in bidder's scope.

ANNEXURE I TO CORRIGENDA 02 TO TENDER ENQUIRY NO: PE/PG/YE1/E-5255/2016, DATED- 06.06.2016

S.No.	Reference		Description	Query	Clarification
	Section	Cl.no			
41	Tech specs, book 1 of 2, Section - I, sub-section I D, datasheet - A, sl.no.2.16		Maximum permissible cooling tower plan dimensions : 130 x 20 M	The length side dimension seems to be less. Kindly re-check and confirm as the dimensions provided in the previous tender is 150 x 20 M.	Maximum dimension to be revised to 150M X 20 M.
42	Tech specs, book 1 of 2, Section - I, sub-section I D, datasheet - A, sl.no.7.5		Fan cylinder / recovery stack: RCC	Construction of RCC stack is a specialised activity and maintaining the profile becomes difficult for a civil contractor other than the IDCT supplier. In view of this, we request you to opt for FRP fan stack which will eliminate the operational issues at a later date.	Bid specification stands
43	Tech specs, book 1 of 2, Section - I, sub-section I D, datasheet - A, sl.no.8.2		External surface - buried piping	Please confirm if the excavation for the buried piping would be carried out by BHEL.	Bidders understanding is correct
44	Tech specs, book 1 of 2, Section - I, sub-section I D, datasheet - A, sl.no.8.2 c)		Underground pipes shall be encased in RCC with minimum thickness of 250 mm.	The RCC encasement shall be carried out by BHEL as the civil works is excluded from our scope. Kindly confirm.	Bidders understanding is correct
45	Tech specs, book 1 of 2, Section - I, sub-section I D, datasheet - A, Annexure - I, terminal point drawing		Cold water outlet header	Please confirm that the same is excluded from our scope.	Only civil works is excluded. However design, supply, E&C are in bidders scope.
46	Tech specs, book 1 of 2, Section - I, sub-section I D, datasheet - A, Annexure - I, terminal point drawing		Hot water header pipe	Please clarify if our T.P. is 10 m from the end wall casing on the longitudinal side or at the centre on the transverse side, including the bend.	As per technical specification.
47	Tech specs, book 2 of 2, section C 1, clause no.6.1		Painting to concrete surfaces	Please confirm that the entire painting of concrete surfaces is excluded from our scope as the civil works is excluded from our scope.	Bidders understanding is correct
48	Tech specs, book 2 of 2, annexure - A, geo-technical investigation report		--	Please furnish the geo-technical agency's recommendations for the type of foundation to be adopted. Please also provide the soil profile for the Borehole related to IDCT area.	Bearing capacity is already furnished the technical specification for civil design.
49	NIT		Bid due date: 05.07.16	We request you to extend the bid submission date to 21.07.16, as the time indicated is very short.	Please comply to NIT scheduled bid submission date of 05.07.2016


सुमीत सहाय / SUMEET SAHAY
 प्रमुख अभियंता (पी.जी.-1-2) / Sr. Engineer (PG-1-2)
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड / Bharat Heavy Electricals Ltd.
 पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन
 Power Sector-Project Engineering Management
 ब्लॉक नं.-25, सेक्टर-16ए, नोएडा-201 301
 Plot No. 25, Sector -16A, Noida-201 301

1X370 MW YELAHANKA CCPP (KPCL)

AMENDMENT NO. 2
TO TECHNICAL SPECIFICATION
FOR
COOLING TOWERS

Specification No. : PE-TS-409-165-N001



BHARAT HEAVY ELECTRICALS LIMITED
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
PPEI BUILDING, SECTOR 16 A
NOIDA - 201301

**TECHNICAL SPECIFICATIONS
COOLING TOWERS**

SPECN. NO.:

PE-TS-409-165-N001

AMENDMENT NO. 2

REV. NO.

0

DATE:

21.06.16

- 1.0 With reference to Cl. 2.16, Section-1, sub-section-1D, data sheet-A of Technical Specification, please consider the Specification amended as below:

Clause as mentioned in Technical Specification	Amended Clause
Max permissible cooling tower plan----130M X 20M	Max permissible cooling tower plan----150M X 20M

- 2.0 With reference to Clause 3.1 of price schedule amended as below:

Clause as mentioned in price schedule	Amended Clause
All RCC works for IDCT Foundation, cold water basin, columns, beams, wall, inlet channel, paving, drain slab, fan deck, fan stack, precast components, fill supporting structures, hot water channel, fins etc. of Grade M30.	All RCC works for IDCT Foundation, cold water basin, columns, beams, wall, inlet channel, paving, drain slab, fan deck, fan stack, precast components, fill supporting structures, hot water channel, fins etc., excluding encasement RCC work of hot water header, of Grade M30.