

Bharat Heavy Electricals Ltd.,
Electronics Division,
Mysore Road, Bangalore – 560 026

Tender Document for " Supply and E&C Support services for Foundation Field Bus System for NTPC TELANGANA STPP 2X800MW (Ref. NKR0000215)

TENDER REFERENCE DOC	NKR0000215
TENDER DOCUMENT AVAILABLE FROM	Refer eprocurement system website
LAST DATE AND TIME FOR SUBMISSION OF TENDER	Refer eprocurement system website
DATE AND TIME FOR TENDER OPENING	Refer eprocurement system website
SUBMISSION OF TENDER	Bidder to submit tender in E-procurement site : https://bheleps.buyjunction.in/ . Refer instructions give in tender document for offer submission of bid in E-procurement site. Service provider: M-junction

This Tender Document Contains documents as per below index:

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Contact Person at BHEL:		ISAAC K T - DGM/PURCHASE(CE-MM-PR) Ph: 080-26998901 Email - isaac@bheledn.co.in
		NILMANI KUMAR , Sr.ENGINEER/PURCHASE(CE-MM-PR) Ph: 080-26998663, Email - nilmanikumar@bheledn.co.in

REQUEST FOR QUOTATION

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: NKR0000215
RFQ DATE: REFER EPROCUREMENT SYSTEM
RFQ DUE DATE: REFER EPROCUREMENT SYSTEM

(for all correspondence)
Purchase Executive : Nilmani Kumar
Phone :080- 26998663
Fax : 00918026989227
E-mail: nilmanikumar@bheledn.co.in

Sl No.	Material Code	Description	Qty	Unit
1	PR0900007999	FOUNDATION FIELD BUS SYSTEM FOR NTPC TELANGANA PROJECT AS PER SPECIFICATION PS4102030	2	Set
2	PR0900007980	MANDATORY SPARE FOR FOUNDATION FIELD BUS SYSTEM FOR NTPC TELANGANA PROJECT AS PER SPECIFICATION PS4102030	1	Set

- i). This is only RFQ not an order.
- ii). In all correspondence quote RFQ No. & due date.
- iii). Quotation should remain valid for a minimum peiod of 120 days from due date.
- iv). In case of non-receipt of Quotation or regret letter for 4 consecutive RFQs you are liable to be removed from our vendors list.



TELANGANA STPP STAGE-I
(2 X 800MW)

DP-FF-676-410-003

REV. NO. 00

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**PRE-QUALIFICATIONS REQUIREMENT
FOR
PURCHASE SPECIFICATION PS4102030
FOUNDATION FIELD BUS BASED I/O SYSTEM**

PROJECT : TELANGANA STPP STAGE-I (2 X 800MW)
CUSTOMER : M/s NTPC LTD.

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CHECKED BY

MUKESH KUMAR

APPROVED BY

S B BANIK

PREPARED

DINAKARA P

ISSUED

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DATE

23/10/2017



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**TELANGANASTPP STAGE-I
(2 X 800MW)**

DP-FF-676-410-003

REV. NO. 00

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**TELANGANA STPP STAGE-I
(2 X 800MW)**

DP-FF-676-410-002

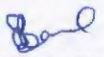
REV. NO. 00

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**GENERAL INSTURCTION TO BIDDERS
FOR
PURCHASE SPECIFICATION PS4102030
FOUNDATION FIELD BUS BASED I/O SYSTEM**

PROJECT : TELANGANA STPP STAGE-I (2 X 800MW)
CUSTOMER : M/s NTPC LTD.

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Prepared	DP		23/10/2017	 MUKESH KUMAR		 S B BANIK
Checked	MK		23/10/2017			
Approved	SBB		23/10/2017			
				PREPARED	ISSUED	DATE
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COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		GENERAL INSTRUCTIONS TO BIDDERS 1. All required documents against this tender / specification shall be submitted in English only. 2. Introduction: Bidders are required to offer FOUNDATION FIELD BUS BASED I/O SYSTEM for NTPC TELANGANA Unit-1&2 800 MW. 3. In order to accept the Technical offers / proposals from Bidders for the project mentioned in this Specification certain Pre-qualification criteria are required to be met by Bidder. 4. Pre-qualification requirements (PQR) are clearly mentioned in the specification. Bidder to read the same carefully and submit the details required for BHEL's acceptance. 5. In case Bidder does not include the details or meet the requirements of Pre-qualification requirements, their offer will be summarily rejected and Bidder's Technical offers will not be evaluated. 6. Evaluation methodology: BHEL shall initially open Bidder's PQR documents only as per the specification for review & acceptance. Only after acceptance of PQR documents, BHEL shall open Bidder's Technical offers for evaluation. In the event of acceptance of Bidder's technical offers, the names of such bidders along with details provided by them for PQR and details of technical offers, shall be submitted to End users/Customers for their acceptance/approval. Commercial bids of only accepted/approved Bidders by End users/Customers, shall be considered by BHEL for further processing. 7. Bidders are required to submit offers in three parts as detailed below: Part-I (PQR documents) Documents pertaining to Pre-Qualification requirements in line with the specification. Part-II (Technical bid) Technical bid shall be submitted in line with the Technical specs PS4102030 Rev no.00 Part-III(Commercial/Price bid) 8. Whenever required during evaluation of PQR and Technical offers/bids, vendor is required to be present at BHEL Electronic Division, Bangalore, for discussions. Further in the event of order, during approval of the Vendor documents by End users/Customers, Vendor shall accompany BHEL representative for discussions.		

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COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.					<i>PURCHASE SPECIFICATION FOR FOUNDATION FIELD BUS BASED I/O SYSTEM (FOR SG C&I PACKAGE)</i> PROJECT : TELANGANA STPP STAGE-I (2 X 800MW) CUSTOMER : NTPC	
				CHECKED BY  MUKESH KUMAR	APPROVED BY  S B BANIK	
				PREPARED  DINAKARA P	ISSUED 410 ENGG	DATE 23/10/2017



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**TELANGANA STPP STAGE-I
(2 X 800MW)**

PS4102030

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COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		1. <u>GENERAL</u> This specification specifies broadly the requirement of Engineering, Manufacturing, Testing, Erection supervision and Commissioning of Foundation fieldbus based I/O system of proven technology to be supplied by the vendor. The proposed system shall be installed in Safe Zone of power plants for which BHEL is supplying control system. 2. <u>CONTROL PANEL</u> The offered system shall be housed in panels of IP55 protection class and placed in field (locally near the equipment). Panel located in control room shall be IP32 minimum. Panel construction and other details, shall be as per Annexure-1 of this specification. 3. <u>FOUNDATION FIELDBUS I/O SYSTEM TECHNICAL DETAILS</u> This specification covers broadly the requirement of Foundation Fieldbus based system with 8 Channel Temperature Input Devices/Multiplexers, power supplies, Power Conditioners with terminators, Mega-blocks /segment couplers with terminators, Surge suppressors/segment, FF- H1/HSE Gateway , connectors, terminators, communication cable, plugs, configuration/ diagnostic software, configuration PC (Laptop) and any other component etc. not specifically mentioned, but required to make the system complete. It is the responsibility of the vendor to ensure that all the components etc. are considered in the offer to make it complete and if any need arises during Engineering/ Testing/ Erections/ Commissioning stage, then same to be supplied by the vendor at no extra cost to BHEL. System shall be capable to acquire signals from 3/4 Wire PT100 RTD (0-100 Deg C range), CuCuNi thermocouple (0-150 Deg C range), NiCrNi Thermocouple (0-700 Deg C range), TC-K Thermocouple (0-800 Deg C range). Details of total signals are attached as Annexure-2. These signals to be acquired using 8 channel Temperature input devices / Multiplexers housed in a control panel located in the field. All other associated components like Megablock etc. will also to be housed in the same panel. All these system components shall have operating Temperature range from 0 – 85 Deg C. Signals from field shall be terminated at the FF I/O panel end by BHEL. These field cables will be 0.5 sq mm dia. multi core Copper cable for RTDs and 0.5 Sqmm dia multicore thermocouple extension cable for thermocouples, being regularly used in power plants. All field RTD signals shall be terminated in the panel using cage clamp TBs and Thermocouple signals will be terminated directly at 8 channel Temperature Input devices. All thermocouples in SG area are Duplex thermocouples, One element will be directly connected to 8 channel temperature Input devices and second element shall be connected to cage clamp TBs mounted in the field panel. Any specific field cable requirement may be informed to BHEL at the time of offer itself.		

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COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.					4. <u>SPARE REQUIREMENT</u>				
					4.1 Offered system shall be expandable. Various in-built spare capacity (per panel / Location basis) shall be as follows				
					I. 10% spare I/O channels wired up to Terminal Blocks for each type of signal, on overall basis in a panel.				
					II. 20% spare Terminal blocks in each panel				
					4.2 Mandatory Spare quantities, apart from the required qty, shall be as below (On per Project basis)				
I. Prefab interconnection cables with connector- 2 no of each variety.									
II. System Bus cable with connector-2 no of each variety.									
III. Power supply modules and power - conditioners, megablocks, surge suppressors 20% or 4 nos of each type and model, whichever is more									
IV. All types of modules including I/O cards, controller/CPU/connectors etc.-10% or 2 nos of each whichever is more									
V. FF gateway/linking device, Interface hardware for communication -10% or 2 nos of each									
VI. Fuses etc. - 200% of each type & variety									
VII. Foundation Fieldbus cable - per meter rate to be indicated in the offer. Quantity for spares will be decided during detailed engineering.									
VIII. Any other item, which vendor recommends is required for trouble free operation for 2 years and not covered above, shall also be indicated and included in the offer with optional price.									
NOTE: All mandatory spares items shall be quoted with Unit price along with required quantities, as per spec.									

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COA		7. <u>QUALITY REQUIREMENT</u>	
		The equipment covered under this specification shall be subject to vendor's Quality Plan to be approved by M/s BHEL/ End user before start of manufacture. To ensure that quality is in-built in each equipment the Quality Assurance System manual & Quality Plan indicating the system followed by the vendor shall be submitted to purchaser for his review along with the offer.	
		The vendor shall give at least 15 days written advance notice to purchaser for witnessing the tests/inspection at various stages. The expenses for all such test/inspection shall be to Manufacturer's account except for the expenses of purchaser's representatives witnessing the test. The purchaser shall attend such test/inspection or advice that the manufacturer may proceed with the test, which shall be deemed to have in purchaser's presence and shall furnish relevant test result and test certificates to the purchaser for his review who will then issue Material Dispatch Clearance Certificate (MDCC) enabling supplier to dispatch the equipment.	
		7.1 <u>TYPE TEST REQUIREMENT:</u>	
		The Vendor shall give the type test report for the offered System and the test requirement shall cover CMRR, NMRR Verification. Submission of type test results and certificate shall be acceptable provided.	
		i) The same has been carried out by the Vendor on exactly the same model / rating of equipment.	
		ii) There has been no change in the components from the offered equipment & tested equipment.	
		iii) The test has been carried out as per the latest standards along with amendments as on the date of Bid opening and as indicated below :	
		7.2 <u>SPECIAL REQUIREMENT FOR SOLID STATE EQUIPMENTS/ SYSTEMS</u>	
		The minimum type test reports, which are to be submitted for each of the major C&I systems shall be as indicated below:	
		i) Surge Withstand Capability (SWC) for Solid State Equipment Systems All solid state systems/equipment shall be able to withstand the electrical noise and surges as encountered in actual service conditions and inherent in a power plant. All the solid state systems/equipment shall be provided with all required protections that needs the surge withstand capability as defined in ANSI 37.90.1/ IEEE-472. Hence, all front end cards which receive external signals like Analog input & output modules, Binary input & output modules etc. including power supply, data highway	

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9 WARRENTY The offered system/ equipment shall be guaranteed for satisfactory operation of 18 months from the date of commissioning OR 24 months from the date of supply whichever is earlier.				
10 ERECTION & COMMISSIONING SCOPE 10.1 All panel erection, cable laying, cable termination etc. will be done by BHEL under supervision of Vendor's engineer. All cable termination details etc. to be given by Vendor to BHEL for cable terminations. 10.2 All system commissioning including Pre-commissioning checks, Panel energizing, Loop checking, Communication establishment with Host DCS system etc. is the responsibility of the Vendor. Vendor to indicate per unit separate Lump-sum price for this activity in the offer.				
11 TRAINING Vendor to provide One day On-site training per unit to BHEL/End User's engineers on all aspects of the Foundation Fieldbus system being offered/supplied. Tentatively 10-15 Engineers will participate in this training. Training shall necessarily include Technical details of Foundation Fieldbus system, Operating principle, system configuration supplied, system trouble-shooting and maintenance, as minimum requirement.				

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COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		12 <u>DOCUMENTATION</u> <u>12.1 Documents to be furnished along-with offer (1 set)</u> ➤ Technical write-up(functional) ➤ Technical literature/catalog of each component ➤ Configuration drawing/Segment design including power supply and monitoring scheme. ➤ Detailed bill of material with make & model ➤ Data sheet of each component offered ➤ Clause-wise confirmation/deviation list ➤ Reference List/Operating experience ➤ Quality Plan ➤ List of Software to be supplied ➤ Overall General Arrangement drg. ➤ General Arrangement drg. ➤ Calculation considering various distances between different components. ➤ Clear list of items/software etc. NOT CONSIDERED but required to complete the system <u>12.2 Documents to be furnished after placement of order</u> <u>(for Approval by BHEL/ End User- 2 sets hardcopies + soft copy in PDF format) Technical write-up(functional)</u> ➤ Technical literature/catalog of each component ➤ Configuration drawing/segment design ➤ Detailed bill of material with make & model ➤ Data sheet ➤ Schematic diagram/Loop diagram including Termination details ➤ Quality Plan ➤ List of Software to be supplied ➤ Type test reports for the Tests mentioned under clause 6.0 ➤ IP55/32 Protection class Type Test Certificate for control panel. <u>12.3 Documents to be furnished before dispatch for review/ acceptance by M/s BHEL/End user (2 sets hardcopies + soft copy in .PDF format)</u> ➤ Visual/ Dimensional Test report ➤ Calibration report ➤ Test Report/Certificate/Type test reports ➤ Schematic diagram/Loop diagram including Termination details ➤ HV/IR Test Report.	

		बि एच ई एल  A4 – 10	TELANGANA STPP STAGE-I (2 X 800MW)	PS4102030
				REV. NO. 00
				PAGE 12 OF 12
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY. 12.4 Final Operation & Maintenance Manual (O&M Manual) shall contain minimum of following: ➤ Technical write-up(functional) ➤ Technical literature/catalog of each component ➤ Configuration drawing/segment design ➤ Detailed bill of material with make & model ➤ Data sheet ➤ Schematic diagram/Loop diagram including Termination details ➤ Details of Software being supplied ➤ Trouble shooting procedure and Maintenance guidelines ➤ Overall General Arrangement drg. ➤ General Arrangement drg. ➤ O&M Manuals to be submitted at the Time of Dispatch. (2 sets hardcopies + 1 soft copy in .PDF format) NOTES : 1. Vendor must furnish, all documents, in line with specification along with offer. Clause-wise specific acceptance/deviations shall be furnished. Deviations, if any, must be clearly brought out in offer. Failure to provide Clause-wise acceptance/deviations may result in Technical disqualification. 2. It is the responsibility of vendor to check for completeness of the offered system. If any additional component/software etc. is required during Engineering/Testing/Erection/Commissioning, then same to be provided by Vendor with NO EXTRA COST TO BHEL. 3. Any clarification required from BHEL side may be obtained during offer stage only. 4. Usages for each component shall be as below: 4.1 Input Temperature Multiplexer - Max. 7 I/Ps to be used. 8th channel to be kept for spare and can be considered for spare wired calculation. 4.2 Megablock/Segment coupler/Wiring Block/Gateway linking device 4.2.1 4 Channel - Max. 3 to be used 4.2.2 8 Channel - Max. 7 to be used 4.2.3 10/12 Channel - Max 8 to be used 4.3 Power conditioner (In redundant mode with Diagnostic module) 4.3.1 4 Redundant channel - Max. 3 to be used 4.3.2 8 Redundant channel - Max. 7 to be used All Power conditioners offered shall be fully loaded, even if No. of channels used is less than the specified above. 4.4 Max. No of devices/segment shall not be more than 8. 4.5 Surge suppressors to be provided at both ends i.e at control room panel end as well as at field panel end. Surge Withstand Capability details are provided in cl. 7.2				

ANNEXURE-1 OF PS4102030
Panel construction and other details

1. INTENT:

Supply of outdoor panel with IP55 protection class and Computer room mounted panel of IP32 class.

2. DIMENSIONS:

- Panel to be fabricated using CRCA sheet, using welded/bolted construction. Basic Panel should generally have the following internal dimensions (minimum): 750mm (W) x 750mm (D) x 2067mm (H). If signals are more Suit of Two panel should be used.
- Bottom frame height- 50mm

3. FRAME WORK:

Framework material shall be CRCA (Cold Rolled Carbon Steel Sheet, Annealed).

4. DOORS, PANELS & COVERS:

- Doors shall be minimum 2.0mm CRCA sheet. Side plates should be minimum 1.5mm thick CRCA sheet. Top and bottom covers should be minimum 1.5mm thick CRCA sheet.
- Removable Gland Plates – 3.0 mm thick CRCA sheet

5. DOORS:

- 2 doors in front and 2 doors at rear per panel. Master key for all the panels shall be provided.
- Door switches:
 - Front of the panel – 2 switch for the lighting and Door Open Alarm Contact
 - Rear of the panel – 2 switch for the lighting and Door Open Alarm Contact

6. CANOPY (Top plate) CONSTRUCTION:

Canopy (Top plate) shall be made of 1.5mm CRCA sheet (Minimum)

7. PAINTING:

- a. Finished surface to be free from waves, belies or other imperfections.
- b. Epoxy based and Powder coated
- c. Doors, Canopy – Off-white RAL 9002 Semi glossy finish both interior and exterior
- d. Side plates – Exterior – Blue to shade RAL 5012; Interior – Off-white RAL 9002 Semi glossy
- e. Minimum thickness is 65-75 microns.

8. ADDITIONAL REQUIREMENTS:

Supplier to submit a document detailing out the lifting mechanism provided for the panels.

9. GENERAL:

Location of erection of the panels: Outdoor

Environmental specification (where the panel will be erected):

Ambient	Pressure	Rel. Humidity	Atmosphere
55 Deg C	Atm	100% max	Air (Dirty)
4 deg C	Atm	5% Min	Air (Dirty)

ANNEXURE-1 OF PS4102030
Panel construction and other details

- ❖ Protection class of the Panel: IP 55 for outdoor and IP32 for Indoor panel.
- ❖ Glands & Gland plate: Panels to be provided with suitable IP55 removable gland modules that will be fixed to the bottom of the panel. Glands shall be Nickel plated double compression Brass cable glands. Exact qty/sizes will be decided detailed engineering. Make of glands shall be indicated in the offer by vendor and \ subject to approval by BHEL.
- ❖ Suitable Gaskets to be provided for all openings.
- ❖ Anti-vibration pads shall be provided for the panels.
- ❖ Cable entry will be from the bottom.
- ❖ OGA Drawing to be submitted for approval before manufacture.
- ❖ Suppliers internal Test Certificate for dimensions, Visual inspection, Paint to be submitted before giving inspection call to BHEL.
- ❖ Inspection by BHEL/Customer at suppliers works.
- ❖ Item shall be packed in all-weather proof packing with sufficient cushioning to avoid transit damages.
- ❖ Name plate of 2mm thick Stainless steel with following details is to be provided inside each panel:

- ◆ **ITEM** : **As per PO**
- ◆ **PROJECT NAME / UNIT No** : **As per PO**
- ◆ **CUSTOMER NAME** : **As per PO**
- ◆ **BHEL ORDER No.** : **As per PO**
- ◆ **Date of Dispatch to Site** :

- ❖ +24VDC Redundant Power supply feeders will be made available at the panel terminal block for FF system use. Vendor to provide necessary protection for the power supply circuit. Also, one feeder of 230VAC power will be provided for panel illumination etc. only. Any other power supply requirement shall be taken care of by the supplier.
- ❖ Panels shall be provided with CFL lamp (operating at 230VAC,50Hz) in both front and back of the panels

Type test certificate for IP55/IP32 protection class (Based on tests done on similar \ panels and not more than 5 yrs. old) shall be furnished along with the offer for the panel.

- ❖ Smoke detector: Suitable mounting bracket for the smoke detector needs to be provided.
- ❖ Nomenclature plate: To be provided on the top of the panel at both front and rear of the panels. Details will be provided during detailed engineering stage.
- ❖ Any other type of construction, generally meeting above requirement is also applicable, subject to approval by BHEL/End user.

❖ **LIST OF APPROVED VENDORS FOR PANELS**

1. M/s Pyrotech, Udaipur
2. M/s Rittal,Bangalore
3. M/s MPP,. Bangalore
4. M/s Hochmann,India

ANNEXURE-1 OF PS4102030
Panel construction and other details

NOTE : Panels of sizes other than as specified under S.no.2 above will also be considered provided they have sufficient space to mount all the components. For this vendor to furnish General arrangement drawing with all dimensional details for approval by BHEL during offer.

HARDWARE TO BE PROVIDED

- Provision to accept 2 nos. redundant feeders of +24VDC, 20 Amps. power supply with necessary TBs and Breakers
- Provision to accept 1 UPS feeder of 230VAC for Panel illumination and power supply socket with necessary TBs and breakers
- DIN rails for components mounting.
- Terminal Blocks suitable for Cage Clamp type of connections – As required.
- Cable channels for cable routing inside the panel.
- Tin Plated Copper Bus bar each for panel Earthing and Screen/Shield
- Panel internal mounting arrangement of various components will be approved by BHEL during detailed engineering stage.
- All internal wiring to be done with FRLS insulated Cables.

- Suitable provision to monitor panel internal temperature to be provided. Individual Alarm Contact (suitable to 230 VAC 0.5 amp) wired up to TBs to be provided. The temperature shall be settable within the range 0□85 DEGC Makes
- **Makes**
 - Terminal Blocks : Wago/Phoenix/Elmax
 - MCB/Breakers : ABB/Schneider/Siemens/Indo Kopp/MDS Load contact/Merlin Gerin
 - De-coupling Diode : Vendor to propose make for approval
 - Under/Over Voltage, Feeder Fault Monitoring: Vendor to propose make for approval.
 - Panel Temp Monitoring – Rittal/Indfos/Danfoss /Any other make subjected to BHEL approval.
 - Network Switch : Cisco /Moxa /N-TRON /Hirschman



A4-10

TELANGANA STPP PHASE-I
(2 X 800MW)

410/TELANGANA/MTM/01

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*List of signals to be acquired by
Foundation Field Bus Protocol*

PROJECT : TELANGANA STPP PHASE-I (2 X 800MW) , UNIT-1&2
CUSTOMER : M/s NTPC LTD.
BHEL DRG NO : EN-DG-405-602-C380
NTPC DRG NO : 9591-102-102-PVI-G-002

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APPROVED BY


S B BANIK

PREPARED



DINAKARA P

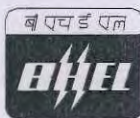
ISSUED

410

ENGG

DATE

16/08/2017



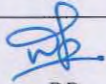
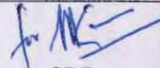
TELANGANA STPP PHASE-I
(2 X 800MW)

410/TELANGANA/MTM/01

REV. NO. 00

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REVISION HISTORY SHEET

REV NO.	DATE	NATURE OF CHANGE	REASON	PREPARED BY	APPROVED BY
00	16/08/2017	FIRST ISSUE	-----	 DP	 SBB

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APPROVED BY


S B BANIK

PREPARED



DINAKARA P

ISSUED

410

ENGG

DATE

16/08/2017

[illegible]

[illegible]

SL.NO	TAG	DESCRIPTION	RANGE	UNIT	SENSOR	SENSOR TYPE	Rev NO	Rev Remarks
145	10HAJ30CT039	RH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
146	10HAJ30CT040	RH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
147	10HAJ30CT041	RH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
148	10HAJ30CT042	RH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
149	10HAJ30CT043	RH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
150	10HAJ30CT044	RH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
151	10HAJ30CT045	RH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
152	10HAJ30CT091	RH FINISH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
153	10HAJ30CT092	RH FINISH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
154	10HAJ30CT093	RH FINISH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
155	10HAJ30CT094	RH FINISH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
156	10HAJ30CT095	RH FINISH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
157	10HAJ30CT096	RH FINISH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
158	10HAD10CT031	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
159	10HAD10CT032	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
160	10HAD10CT033	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
161	10HAD10CT034	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
162	10HAD10CT035	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
163	10HAD10CT036	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
164	10HAD10CT037	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
165	10HAD10CT038	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
166	10HAD10CT039	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
167	10HAD10CT040	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
168	10HAD10CT041	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
169	10HAD10CT042	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
170	10HAD10CT043	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
171	10HAD10CT044	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
172	10HAD10CT045	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
173	10HAD10CT046	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
174	10HAD10CT047	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
175	10HAD10CT048	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
176	10HAD10CT049	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
177	10HAD10CT050	LEFT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
178	10HAD30CT031	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
179	10HAD30CT032	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
180	10HAD30CT033	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
181	10HAD30CT034	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
182	10HAD30CT035	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
183	10HAD30CT036	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
184	10HAD30CT037	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
185	10HAD30CT038	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
186	10HAD30CT039	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
187	10HAD30CT040	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
188	10HAD20CT031	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
189	10HAD20CT032	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
190	10HAD20CT033	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
191	10HAD20CT034	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
192	10HAD20CT035	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
193	10HAD20CT036	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
194	10HAD20CT037	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
195	10HAD20CT038	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
196	10HAD20CT039	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
197	10HAD20CT040	FRONT VERICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
PANEL/LOCATION-2								
SEGMENT - 2 (AT PLAT. EL. 93400 Near S9R)								
SL.NO	TAG	DESCRIPTION	RANGE	UNIT	SENSOR	SENSOR TYPE	Rev NO	Rev Remarks
1	10HAH34CT046	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
2	10HAH34CT047	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
3	10HAH34CT048	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
4	10HAH34CT049	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
5	10HAH34CT050	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
6	10HAH34CT051	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
7	10HAH34CT052	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
8	10HAH34CT053	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
9	10HAH34CT054	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
10	10HAH34CT055	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
11	10HAH34CT056	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
12	10HAH34CT057	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
13	10HAH34CT058	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
14	10HAH34CT059	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
15	10HAH34CT060	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
16	10HAH34CT061	SH PLATEN FRONT OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	

[illegible]

[illegible]

SL.NO	TAG	DESCRIPTION	RANGE	UNIT	SENSOR	SENSOR TYPE	Rev NO	Rev Remarks
163	10HAD40CT033	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
164	10HAD40CT034	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
165	10HAD40CT035	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
166	10HAD40CT036	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
167	10HAD40CT037	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
168	10HAD40CT038	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
169	10HAD40CT039	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
170	10HAD40CT040	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
171	10HAD40CT041	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
172	10HAD40CT042	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
173	10HAD40CT043	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
174	10HAD40CT044	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
175	10HAD40CT045	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
176	10HAD40CT046	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
177	10HAD40CT047	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
178	10HAD40CT048	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
179	10HAD40CT049	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
180	10HAD40CT050	RIGHT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
181	10HAD30CT041	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
182	10HAD30CT042	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
183	10HAD30CT043	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
184	10HAD30CT044	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
185	10HAD30CT045	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
186	10HAD30CT046	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
187	10HAD30CT047	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
188	10HAD30CT048	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
189	10HAD30CT049	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
190	10HAD30CT050	REAR VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
191	10HAD20CT041	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
192	10HAD20CT042	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
193	10HAD20CT043	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
194	10HAD20CT044	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
195	10HAD20CT045	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
196	10HAD20CT046	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
197	10HAD20CT047	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
198	10HAD20CT048	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
199	10HAD20CT049	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
200	10HAD20CT050	FRONT VERTICAL WALL TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
PANEL/LOCATION-3								
SEGMENT - 3 (AT PLAT. 93400 Near S10L)								
SL.NO	TAG	DESCRIPTION	RANGE	UNIT	SENSOR	SENSOR TYPE	Rev NO	Rev Remarks
1	10HAH41CT001	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
2	10HAH41CT002	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
3	10HAH41CT003	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
4	10HAH41CT004	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
5	10HAH41CT005	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
6	10HAH41CT006	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
7	10HAH41CT007	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
8	10HAH41CT008	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
9	10HAH41CT009	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
10	10HAH41CT010	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
11	10HAH41CT011	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
12	10HAH41CT012	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
13	10HAH41CT013	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
14	10HAH41CT014	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
15	10HAH41CT015	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
16	10HAH41CT016	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
17	10HAH41CT017	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
18	10HAH41CT018	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
19	10HAH41CT019	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
20	10HAH41CT020	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
21	10HAH41CT021	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
22	10HAH41CT022	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
23	10HAH41CT023	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
24	10HAH41CT024	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
25	10HAH41CT025	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
26	10HAH41CT026	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
27	10HAH41CT027	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
28	10HAH41CT028	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
29	10HAH41CT029	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
30	10HAH41CT030	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
31	10HAH41CT031	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	

[illegible]

SL.NO	TAG	DESCRIPTION	RANGE	UNIT	SENSOR	SENSOR TYPE	Rev NO	Rev Remarks
105	10HAJ07CT029	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
106	10HAJ07CT030	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
107	10HAJ07CT031	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
108	10HAJ07CT032	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
109	10HAJ07CT033	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
110	10HAJ07CT034	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
111	10HAJ07CT035	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
112	10HAJ07CT036	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
113	10HAJ07CT037	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
114	10HAJ07CT038	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
115	10HAJ07CT039	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
116	10HAJ07CT040	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
117	10HAJ07CT041	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
118	10HAJ07CT042	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
119	10HAJ07CT043	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
120	10HAJ07CT044	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
121	10HAJ07CT045	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
122	10HAJ07CT046	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
123	10HAJ07CT047	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
124	10HAJ07CT048	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
125	10HAJ07CT049	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
126	10HAJ07CT050	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
127	10HAJ07CT051	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
128	10HAJ07CT052	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
129	10HAJ07CT053	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
130	10HAJ07CT054	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
131	10HAJ07CT055	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
132	10HAJ07CT056	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
133	10HAJ07CT057	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
134	10HAJ07CT058	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
135	10HAJ07CT059	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
136	10HAJ07CT060	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
137	10HAJ07CT061	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
138	10HAJ07CT062	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
139	10HAJ07CT063	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
140	10HAJ07CT064	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
141	10HAJ07CT129	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
142	10HAJ07CT130	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
143	10HAJ07CT131	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
144	10HAJ07CT132	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
145	10HAJ07CT133	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
146	10HAJ07CT134	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
147	10HAJ07CT135	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
148	10HAJ07CT136	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
149	10HAJ07CT137	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
150	10HAD50CT001	SH FURN ROOF TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
151	10HAD50CT002	SH FURN ROOF TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
152	10HAD50CT003	SH FURN ROOF TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
153	10HAD50CT004	SH FURN ROOF TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
PANEL/LOCATION-4								
SEGMENT - 4 (AT PLAT. 93400 Near S10R)								
SL.NO	TAG	DESCRIPTION	RANGE	UNIT	SENSOR	SENSOR TYPE	Rev NO	Rev Remarks
1	10HAH41CT068	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
2	10HAH41CT069	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
3	10HAH41CT070	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
4	10HAH41CT071	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
5	10HAH41CT072	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
6	10HAH41CT073	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
7	10HAH41CT074	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
8	10HAH41CT075	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
9	10HAH41CT076	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
10	10HAH41CT077	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
11	10HAH41CT078	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
12	10HAH41CT079	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
13	10HAH41CT080	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
14	10HAH41CT081	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
15	10HAH41CT082	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
16	10HAH41CT083	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
17	10HAH41CT084	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
18	10HAH41CT085	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
19	10HAH41CT086	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
20	10HAH41CT087	SH FINISH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	

[illegible]

SL.NO	TAG	DESCRIPTION	RANGE	UNIT	SENSOR	SENSOR TYPE	Rev NO	Rev Remarks
94	10HAJ07CT082	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
95	10HAJ07CT083	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
96	10HAJ07CT084	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
97	10HAJ07CT085	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
98	10HAJ07CT086	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
99	10HAJ07CT087	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
100	10HAJ07CT088	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
101	10HAJ07CT089	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
102	10HAJ07CT090	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
103	10HAJ07CT091	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
104	10HAJ07CT092	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
105	10HAJ07CT093	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
106	10HAJ07CT094	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
107	10HAJ07CT095	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
108	10HAJ07CT096	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
109	10HAJ07CT097	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
110	10HAJ07CT098	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
111	10HAJ07CT099	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
112	10HAJ07CT100	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
113	10HAJ07CT101	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
114	10HAJ07CT102	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
115	10HAJ07CT103	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
116	10HAJ07CT104	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
117	10HAJ07CT105	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
118	10HAJ07CT106	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
119	10HAJ07CT107	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
120	10HAJ07CT108	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
121	10HAJ07CT109	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
122	10HAJ07CT110	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
123	10HAJ07CT111	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
124	10HAJ07CT112	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
125	10HAJ07CT113	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
126	10HAJ07CT114	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
127	10HAJ07CT115	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
128	10HAJ07CT116	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
129	10HAJ07CT117	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
130	10HAJ07CT118	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
131	10HAJ07CT119	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
132	10HAJ07CT120	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
133	10HAJ07CT121	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
134	10HAJ07CT122	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
135	10HAJ07CT123	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
136	10HAJ07CT124	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
137	10HAJ07CT125	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
138	10HAJ07CT126	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
139	10HAJ07CT127	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
140	10HAJ07CT128	LTRH OUTSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
141	10HAJ07CT138	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
142	10HAJ07CT139	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
143	10HAJ07CT140	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
144	10HAJ07CT141	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
145	10HAJ07CT142	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
146	10HAJ07CT143	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
147	10HAJ07CT144	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
148	10HAJ07CT145	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
149	10HAJ07CT146	LTRH INSIDE GAS PASS TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
150	10HAD50CT005	SH FURN ROOF TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
151	10HAD50CT006	SH FURN ROOF TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	
152	10HAD50CT007	SH FURN ROOF TUBE	0-650	DEGC	THERMOCOUPLE	TYPE K TC	0	



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

CE: PR: 002- Rev 00

GENERAL COMMERCIAL CONDITIONS FOR CONTRACT

These 'General Commercial Conditions for Contract for Purchase' hereinafter referred to as GCC apply to all enquiries, tenders, requests for quotations, orders, contracts and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited and any of its units, regions or divisions (hereinafter referred to as "BHEL" or the Purchaser) or its projects / customers.

Any deviations from or additions to these GCC require BHEL's express written consent. The general terms of business or sale of the vendor shall not apply to BHEL. Acceptance, receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the vendor have been accepted.

Orders, agreements and amendments thereto shall be binding if made or confirmed by BHEL in writing. Only the Purchasing department of BHEL is authorized to issue the Purchase Order or any amendment thereof.

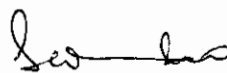
Definitions: Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.

- 'The Purchaser' means Bharat Heavy Electricals Limited, Electronics division, Mysore road, Bangalore 560 026, a Unit of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the Companies Act having its registered office at BHEL House, Siri Fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- 'The vendor' means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the vendor's successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor or Supplier.
- 'Contract' shall mean and include the Purchase Order incorporating various agreements, viz. tender/ RFQ, offer, letter of intent / acceptance / award, the General Conditions of Contract and Special Conditions of Contract for Purchase, Specifications, Inspection / Quality Plan, Schedule of Prices and Quantities, Drawings, if any enclosed or to be provided by BHEL or his authorized nominee and the samples or patterns if any to be provided under the provisions of the contract.
- 'Parties to the Contract' shall mean the 'The Vendor' and the Purchaser as named in the main body of the Purchase Order.

Interpretation:

In the contract, except where the context requires otherwise:

- words indicating one gender include all genders;
- words indicating the singular also include the plural and words indicating the plural also include the singular;
- provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- "Written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

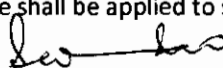

 (S. V. Rao)

Applicable Conditions:

1. **Price Basis:** All prices shall be firm until the purchase order is executed / completed in all respects. No price variations / escalation shall be permitted unless otherwise such variations / escalations are provided for and agreed by BHEL in writing in the purchase order.
2. **Validity:** The offer will be valid for a period of 120 days from the date of technical bid opening date. Validity beyond 120 days, if required, will be specified in the SCC (special conditions of contract).
3. **Ordering and confirmation of Order:** Vendor shall send the order acceptance on their company letter head within two weeks from the date of Purchase Order or such other period as specified / agreed by BHEL. BHEL reserves the right to revoke the order placed if the order confirmation differs from the original order placed. The acceptance of goods/services/supplies by BHEL as well as payments made in this regard shall not imply acceptance of any deviations.
The purchase order will be deemed to have been accepted if no communication to the contrary is received within two weeks (or the time limit as specified / agreed by BHEL) from the date of the purchase order.
4. **Documentation:** After receipt of Purchase Order, vendor should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and/or any other relevant documents as per Specification/Purchase Order, as and when required by BHEL/Customer.
At any stage within the contract period, the vendor shall notify of any error, fault or other defect found in BHEL's documents /specifications or any other items for reference. If and to the extent that (taking account of cost and time) any vendor exercising due care would have discovered the error, fault or other defect when examining the documents/specifications before submitting the tender, the time for completion shall not be extended. However if errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the vendor's documents, they shall be corrected at his cost, notwithstanding any consent or approval.
5. **Penalty:**
For delay in documentation: In the event of delay in submission of complete set of documents ((like drawings, bill of materials, datasheets, catalogues, quality plan etc. as called in tender specifications including soft copies wherever applicable) in required sets beyond three weeks (or as agreed/indicated in the Purchase Order) from the date of Purchase Order, penalty at 0.5% (half percent) per week or part thereof, limited to a maximum of 5% (five percent) of the basic material value of the Purchase Order will be applicable.

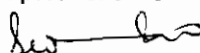
For delay in delivery: In the event of delay in agreed contractual delivery as per Purchase Order, penalty @ 0.5 % (half percent) per week or part thereof but limited to a max of 10% (ten percent) value of undelivered portion (basic material cost) will be applicable. Delivery will commence from the date of document approval by customer / BHEL or date of issue of manufacturing clearance, whichever is later. The date for which Inspection call is issued by vendor along with test certificates / test reports / Certificate of Conformance / calibration reports, as proof of completion of manufacturing will be treated as date of deemed delivery for penalty calculation. In the absence of furnishing such document indicated above as proof of completion of manufacturing along with inspection call, actual date of inspection will be considered as date of deemed delivery and BHEL will not be responsible for delay in actual date of inspection.

Penalty for delayed documentation/delayed delivery, if applicable, shall be deducted at the time of first payment. If penalty is applicable for duration of less than a week, penalty @ 0.5% (half percent) of the basic material value will be deducted.
6. **Contract variations (Increase or decrease in the scope of supply):** BHEL may vary the contracted scope as per requirements at site. If vendor is of the opinion that the variation has an effect on the agreed price or delivery period, BHEL shall be informed of this immediately in writing along with technical details. Where unit rates are available in the Contract, the same shall be applied to such additional work. Vendor shall not


(Sivas)

perform additional work before BHEL has issued written instructions / amendment to the Purchase Order to that effect. The work which the vendor should have or could have anticipated in terms of delivering the service(s) and functionality (i.e.) as described in this agreement, or which is considered to be the result of an attributable error on the vendor's part, shall not be considered additional work.

7. Reverse Auction: BHEL reserves the right to follow REVERSE AUCTION PROCEDURE (ONLINE BIDDING ON NETWORK) before finalising the Purchase order on technically competent bidders, as per the guidelines given in Annexure III. In case BHEL does not resort to Reverse Auction, the price bids and price impacts (if any) already submitted and available with BHEL shall be opened as per BHEL's standard practice.
8. Inspection: Prior written notice of at least 10 days shall be given along with internal test certificates / COC and applicable test certificates. Materials will be inspected by BHEL-EDN-QS/CQS or BHEL nominated Third Party Inspection Agency (TPIA) or BHEL authorized Inspection Agency or Customer / Consultant or jointly by BHEL & Customer / consultant. All tests have to be conducted as applicable in line with approved Quality plan or QA Checklist or Purchase specification and original reports shall be furnished to BHEL-EDN, Bangalore for verification / acceptance for issue of dispatch clearance.
All costs related to inspections & re-inspections shall be borne by vendor. Whether the Contract provides for tests on the premises of the vendor or any of his Sub-contractor/s, vendor shall be responsible to provide such assistance, labour, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by BHEL only if specifically agreed to in the purchase order.
9. Transit Insurance: Transit insurance coverage between vendor's works and project site shall be to the account of BHEL, unless specifically agreed otherwise. However, vendor shall send intimation directly to insurance agency (as mentioned in dispatch instructions issued by BHEL) through fax/courier/e-mail, immediately on dispatch of goods for covering insurance. A copy of such intimation sent by vendor to insurance agency shall be given to BHEL along with dispatch documents. Dispatch documents will be treated as incomplete without such intimation copy. BHEL shall not be responsible for sending intimations to insurance agency on behalf of the vendor.
10. High Sea Sales (HSS): Customs clearance of the consignment landed on Indian Sea / Air ports will be done by BHEL based on the original HSS documents provided by vendors.
Any delay in submission of complete / correct HSS documents to BHEL may incur demurrage charges. All demurrage charges on account of incomplete / incorrect HSS documents submission by vendor will be to vendor's account and all such charges will be recovered from any of the available vendor bills with BHEL.
11. Packaging and dispatch: The Seller shall package the goods safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by Sea / Air / Rail / Road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures / hooks and sling marks as may be required for easy and safe handling. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols / instructions. Hazardous material should be notified as such and their packing, transportation and other protection must conform to relevant regulations.
The packing, shipping, storage and processing of the goods must comply with the prevailing legislation and regulations concerning safety, the environment and working conditions. Any Imported/Physical Exports items packed with raw / solid wood packing material should be treated as per ISPM – 15 (fumigation) and accompanied by Phytosanitary / Fumigation certificate. If safety information sheets (MSDS – Material Safety Data Sheet) exist for an item or the packaging, vendor must provide this information without fail along with the consignment.
Each package must be marked with Consignee name, Purchase order number, Package number, Gross weight and net weight, dimensions (L x B x H) and Seller's name. Packing list of goods inside each package with PO item number and quantity must also be fixed securely outside the box to indicate the contents of each box. Total number of packages in the consignment must also be indicated.
Separate packing & identification of items should be as follows.
 1. Main Scope - All items must be tagged with part no. & item description.
 2. Commissioning spares - All items must be tagged with part no. & item description.
 3. Mandatory spares - All items must be tagged with part no. & item description.


(S/Rao)

12. Assignment of Rights & Obligations; Subcontracting: Vendor is not permitted to subcontract the delivery or any part thereof to third party or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from BHEL. Any permission or approval given by the BHEL shall, however, not absolve the vendor of the responsibility of his obligations under the Contract.
13. Progress report: Vendor shall render such report as to the progress of work and in such form as may be called for by the concerned purchase officer from time to time. The submission and acceptance of such reports shall not prejudice the rights of BHEL in any manner.
14. Non-disclosure and Information Obligations: Vendor shall provide with all necessary information pertaining to the goods as it could be of importance to BHEL. Vendor shall not reveal confidential information that may be divulged by BHEL to Vendor's employees not involved with the tender/ contract & its execution and delivery or to third parties, unless BHEL has agreed to this in writing beforehand. Vendor shall not be entitled to use the BHEL name in advertisements and other commercial publications without prior written permission from BHEL.
15. Cancellation / Termination of contract: BHEL shall have the right to completely or partially terminate the agreement by means of written notice to that effect. Termination of the Contract, for whatever reason, shall be without prejudice to the rights of the parties accrued under the Contract up to the time of termination.
BHEL shall have the right to cancel/foreclose the Order/ Contract, wholly or in part, in case it is constrained to do so, on account of any decline, diminution, curtailment or stoppage of the business.
16. Risk Purchase Clause: In case of failure of supplier, BHEL at its discretion may make purchase of the materials / services NOT supplied / rendered in time at the RISK & COST of the supplier. Under such situation, the supplier who fails to supply the goods in time shall be wholly liable to make good to BHEL any loss due to risk purchase.
In case of items demanding services at site like erection and commissioning, vendor should send his servicemen /representatives within 7 days from the service call. In case a vendor fails to attend to the service call, BHEL at its discretion may also make arrangements to attend such service by other parties at the RISK & COST of the supplier. Under such situation the supplier who fails to attend the service shall be wholly liable to make good to BHEL any loss due to risk purchase / service including additional handling charges due to the change.
17. Shortages: In the event of shortage on receipt of goods and/or on opening of packages at site, all such shortages shall be made good within a reasonable time that BHEL may allow from such intimation and free of cost. In case BHEL raises an insurance claim, the cost of material limited to insurance settled amount less handling charges will have to be reimbursed by the Supplier.
Transit Damages: In the event of receipt of goods in damaged condition or having found them so upon opening of packages at site, Supplier shall make good of all such damages within a reasonable time from such intimation by BHEL. In case BHEL raises an insurance claim, the cost of material limited to insurance settled amount less handling charges will be reimbursed.
18. Remedial work: Notwithstanding any previous test or certification, BHEL may instruct the vendor to remove and replace materials/goods or remove and re-execute works/services which are not in accordance with the purchase order. Similarly BHEL may ask the vendor to supply materials or to execute any services which are urgently required for any safety reasons, whether arising out of or because of an accident, unforeseeable event or otherwise. In such an event, Vendor shall provide such services within a reasonable time as specified by BHEL.
19. Indemnity Clause: Vendor shall comply with all applicable safety regulations and take care for the safety of all persons involved. Vendor is fully responsible for the safety of its personnel or that of his subcontractor's men / property, during execution of the Purchase Order and related services. All statutory payments including PF, ESI or other related charges have to be borne by the vendor. Vendor is fully responsible for ensuring that all legal compliances are followed in course of such employment.

(Signature)
(Sivas)

20. Product Information, Drawings and Documents: Drawings, technical documents or other technical information received by Vendor from BHEL or vice versa shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the Disclosing party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract.

Vendor, as per agreed date/s but not later than the date of delivery, provide free of charge information and drawings which are necessary to permit and enable BHEL to erect, commission, operate and maintain the product. Such information and drawings shall be supplied in as many numbers of copies as may be agreed upon.

All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the Contract shall continue to be the property of the disclosing party.

21. Intellectual Property Rights, Licenses: If any Patent, design, Trade mark or any other intellectual property rights apply to the delivery (goods / related service) or accompanying documentation shall be the exclusive property of the Vendor and BHEL shall be entitled to the legal use thereof free of charge by means of a non-exclusive, worldwide, perpetual license. All intellectual property rights that arise during the execution of the Purchase Order/ contract for delivery by vendor and/or by its employees or third parties involved by the vendor for performance of the agreement shall belong to BHEL. Vendor shall perform everything necessary to obtain or establish the above mentioned rights. The Vendor guarantees that the delivery does not infringe on any of the intellectual property rights of third parties. The Vendor shall do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of any (alleged) claims by third parties. The Vendor shall indemnify BHEL against any (alleged) claims by third parties in this regard and shall reimburse BHEL for any damages suffered as a result thereof.

22. Force Majeure: Notwithstanding anything contained in the purchase order or any other document relevant thereto, neither party shall be liable for any failure or delay in performance to the extent said failures or delays are caused by the "Act of God" and occurring without its fault or negligence, provided that, force majeure will apply only if the failure to perform could not be avoided by the exercise of due care and vendor doing everything reasonably possible to resume its performance.

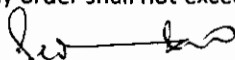
A party affected by an event of force majeure which may include fire, tempest, floods, earthquake, riot, war, damage by aircraft etc., shall give the other party written notice, with full details as soon as possible and in any event not later than seven (7) calendar days of the occurrence of the cause relied upon. If force majeure applies, dates by which performance obligations are scheduled to be met will be extended for a period of time equal to the time lost due to any delay so caused.

Notwithstanding above provisions, in an event of Force Majeure, BHEL reserves for itself the right to cancel the order/ contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements for completion of deliveries and other schedules.

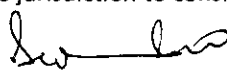
23. Guarantee / Warranty: Wherever required, and so provided in the specifications / Purchaser Order, the Seller shall guarantee that the stores supplied shall comply with the specifications laid down, for materials, workmanship and performance. Unless otherwise specified, guarantee / warranty period shall be 30 months after the date of delivery of goods or 24 months from the date of commissioning of goods whichever is earlier. The guarantee / warranty period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery. Unless otherwise specifically provided in the Purchase Order, Vendor's liability shall be co terminus with the expiration of the applicable guarantee / warranty period.

24. Limitation of Liability: Vendor's liability towards this contract is limited to a maximum of 100% of the contract value and consequential damages are excluded. However the limits of liability will have no effect in cases of criminal negligence or wilful misconduct.

The total liability of Vendor for all claims arising out of or relating to the performance or breach of the Contract or use of any Products or Services or any order shall not exceed the total Contract price.


(S. V. Rao)

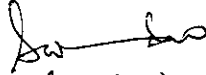
25. Liability during guarantee / warranty: Vendor shall arrange replacement / repair of all the defective materials / services under its obligation under the guarantee / warranty period. The rejected goods shall be taken away by vendor and replaced / repaired. In the event of the vendor's failure to comply, BHEL may take appropriate action including disposal of rejections and replenishment by any other sources at the cost and risk of the vendor.
In case, defects attributable to vendor are detected during first time commissioning or use, vendor shall be responsible for replacement / repair of the goods as required by BHEL at vendor's cost. In all such cases expiry of guarantee / warranty will not be applicable.
26. Liability after guarantee / warranty period: At the end of the guarantee / warranty, the Vendor's liability ceases except for latent defects (latent defects are defects / performance issues noticed after the guarantee / warranty has expired). The Contractor's liability for latent defects warranty for the plant and equipment including spares shall be limited to a period of six months from the end of the guarantee / warranty period of the respective plant and equipment including spares or first time commissioning whichever is later but not later than 3 (three) years from the date of shipment.
27. Compliance with Laws: Vendor shall, in performing the contract, comply with all applicable laws. The vendor shall make all remittances, give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the laws in relation to the execution and completion of the contract and for remedying of any defects; and the Contractor shall indemnify and hold BHEL harmless against and from the consequences of any failure to do so.
28. Settlement of Disputes: Except as otherwise specifically provided in the Purchase Order, decision of BHEL shall be binding on the vendor with respect to all questions relating to the interpretation or meaning of the terms and conditions and instructions herein before mentioned and as to the completion of supplies/work/services, other questions, claim, right, matter or things whatsoever in any way arising out of or relating to the contract, instructions, orders or these conditions or otherwise concerning the supply or the execution or failure to execute the order, whether arising during the schedule of supply/work or after the completion or abandonment thereof. Any disputes or differences among the parties shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration. Vendor shall continue to perform the contract, pending settlement of dispute(s).
29. Arbitration Clause: In case amicable settlement is not reached in the event of any dispute or difference arising out of the execution of the Contract or the respective rights and liabilities of the parties or in relation to interpretation of any provision in any manner touching upon the Contract, such dispute or difference shall (except as to any matters, the decision of which is specifically provided for therein) be referred by either party to the sole arbitration of an Arbitrator appointed by the Executive Director/ General Manager of the purchasing unit/ region/ division of BHEL. Vendor shall have no objection even if the Arbitrator so appointed is an employee of BHEL or has ever dealt/ had to deal with any matter relating to this Contract.
Subject as aforesaid the provisions of the Arbitration and Conciliation Act, 1996 of India or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. It is a term of contract that the party initiating arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute. The venue for the arbitration shall be Bangalore, India. The award of the arbitrator shall be a speaking award and shall be final, conclusive and binding on all parties to this contract.
The cost of arbitration shall be borne equally by the parties. Notwithstanding the existence of any dispute or difference or any reference for the arbitration, the vendor shall proceed with and continue without hindrance the performance of the work under the contract with due diligence and expedition in a professional manner.
30. Applicable Laws and Jurisdiction of Courts: Prevailing Indian laws both substantive and procedural, including modifications thereto, shall govern the Contract. Subject to the conditions as aforesaid, the competent courts in BANGALORE alone shall have jurisdiction to consider over any matters touching upon this contract.


(Srdas)

31. General Terms: That any non-exercise, forbearance or omission of any of the powers conferred on BHEL and /or any of its authorities will not in any manner constitute waiver of the conditions hereto contained in these presents.

That the headings used in this agreement are for convenience of reference only.

That all notices etc., to be given under the Purchase order shall be in writing, type script or printed and if sent by registered post or by courier service to the address given in this document shall be deemed to have been served on the date when in the ordinary course, they would have been delivered to the addressee.


(Sv Rao)

32. Fraud Prevention Policy: The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.



ಭಾರತ್ ಹವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

CE: PR: 001- Rev 00

INSTRUCTIONS TO BIDDERS (Common for all RFQs)

Bidder is requested to read the instructions carefully and submit their quotation covering all the points:

A. GENERAL INSTRUCTIONS:

1. Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: CE: PR: 001 – Rev 00), General Conditions of Contract (document reference: CE: PR: 002 - Rev 00) and Special Conditions of Contract, if any, of the enquiry.
2. Any deviations from or additions to the “General Conditions of Contract” or “Special Conditions of Contract” require BHEL’s express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
3. Bidders (also includes the term suppliers / contractors wherever used in this document) are instructed to quote their most competitive price and best delivery, etc. in the offer. Prices should be indicated in both figures & words. **(Please also refer clause 11 under section B)**
4. Regret letter (either through post or by mail) indicating reasons for not quoting must be submitted without fail, in case of non-participation in this tender. If a bidder fails to respond against 3 consecutive tenders for the same item, he will be liable for removal as a registered vendor of BHEL.
5. Procurement directly from the manufacturers shall be preferred. However, if the OEM / Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from the manufacturer / supplier and his agent, bid received from the agent shall be ignored.
6. Consultant / firm (and any of its affiliates) shall not be eligible to participate in the tender/s for the related goods for the same project if they were engaged for consultancy services for the same project.
7. If an Indian representative / associate / liaison office quotes on behalf of a foreign based bidder, such representative shall furnish compulsorily the following documents:
 - a. Authorization letter to quote and negotiate on behalf of such foreign-based bidder.
 - b. Undertaking from such foreign based bidder that such contract will be honored and executed according to agreed scope of supply and commercial terms and conditions.
 - c. Undertaking shall be furnished by the Indian representative stating that the co-ordination and smooth execution of the contract and settlement of shortages / damages / replacement / repair of imported scope till system is commissioned and handed over to customer will be the sole responsibility of the Indian representative / associates / agent / liaison office.
 - d. Refer **Annexure X** on “Guidelines for Indian Agents”.
8. In case of imported scope of supply, customs clearance & customs duty payment will be to BHEL account after the consignment is received at Indian Airport / Seaport. Bidders must provide all original documents required for completing the customs clearance along with the shipment. Warehousing charges due to

incomplete or missing documentation will be recovered from the supplier's bill. All offers for imported scope of supply must be made from any of the gateway ports (within the country) indicated. **(Refer Annexure I)**

9. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of the banned firms is available on BHEL website: **www.bhel.com**
10. Business dealings with bidders will be suspended if they are found to have indulged in any malpractices / misconduct which are contrary to business ethics like bribery, corruption, fraud, pilferage, cartel formation, submission of fake/false/forged documents, certificates, information to BHEL or if they tamper with tendering procedure affecting the ordering process or fail to execute a contract, or rejection of 3 consecutive supplies or if their firms / works are under strike / lockout for a long period.

B. GUIDELINES FOR PREPARATION OF OFFER:

1. Quotation shall be submitted in Single Part Bid, Two Part Bid or Three Part Bid, as called for in the tender:
 - **SINGLE PART BID:** Technical and Commercial Bid with prices along with price summary & filled in BHEL Standard Commercial terms and conditions in a single sealed envelope.
 - **TWO PART BID:** Unpriced offer i.e. "Techno-commercial Bid" with filled in BHEL Standard Commercial terms and conditions in a sealed envelope **along with the copy of the "Price Bid" without the prices** should be enclosed in one cover and the cover must be super scribed "**Techno-commercial offer**) and Priced offer i.e. "Price Bid" containing price summary in a separate sealed envelope and must be super scribed "**Price Bid**". Both these envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number due date of tender and any other details as called for in the tender document.
 - **THREE PART BID:** Pre-qualification Bid (Part-I), Techno Commercial Bid with filled in BHEL Standard Commercial terms and conditions (Part-II), and Price Bid (Part-III). All three envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number due date of tender and any other details as called for in the tender document.

If any of the offers (Part I, Part II or Part III) are not submitted before the due date and time of submission or if any part of the offer is incomplete the entire offer of the bidder is liable for rejection.

2. Supplier shall ensure to super scribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid". Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.
3. BHEL standard Commercial Terms and Conditions (duly filled, signed & stamped) must accompany Technical-Commercial offer without fail and should be submitted in original only. Xerox copy will not be accepted.
4. Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if all terms and conditions of this enquiry are accepted by the supplier without deviation.
5. Deviation to this specification / item description, if any, shall be brought out clearly indicating "DEVIATION TO BHEL SPECIFICATION" without fail, as a part of Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if the entire specification of this enquiry is accepted without deviation.
6. Suppliers shall submit one set of original catalogue, datasheets, bill of materials, dimensional drawings, mounting details and / or any other relevant documents called in purchase specification as part of Technical Bid.
7. "Price Bid" shall be complete in all respects containing price break-up of all components along with all

applicable taxes and duties, packing & forwarding charges (if applicable), freight charges (if applicable) etc. Once submitted no modification / addition / deletion will be allowed in the "Price Bid." Bidders are advised to thoroughly check the unit price, total price to avoid any discrepancy.

8. In addition, bidder shall also quote for erection & commissioning charges (E&C charges), documentation charges, service charges, testing Charges (type & routine), training charges, service tax, etc. wherever applicable. The price summary must indicate all the elements clearly.
9. Vendors should indicate "lump sum" charges (including To & Fro Fare, Boarding, Lodging, Local Conveyance etc.) for Supervision of Erection, Commissioning and handing over to customer. The quotation shall clearly indicate scope of work, likely duration of commissioning, pre-commissioning checklist and service tax (if any).
10. Wherever bidders require PAC (Project Authority Certificate) for import of raw materials, components required for Mega Power Projects, Export Projects or other similar projects wherein supplies are eligible for customs duty benefits, lists and quantities of such items and their values (CIF) has to be mentioned in the offer. Prices must be quoted taking into account of such benefits.
11. All quotations shall be free from corrections /overwriting. Corrections if any should be authenticated with signature and seal. Any typographical error, totaling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per **Annexure II** "Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid". BHEL decision will be final.

C. GUIDELINES FOR OFFER SUBMISSION:

1. Offers / Quotations must be dropped in tender box before 13.00 Hrs. on or before due date mentioned in RFQ. The offers are to be dropped in the proper slot of the Tender Box kept in our reception area with caption "CE, SC&PV, DEFENCE." Tenders are opened on 3 days in a week (Monday/Wednesday/Friday). Tender must be deposited in the slot corresponding to the day (Monday - Box no.4/Wednesday - Box no. 6 /Friday - Box no.8) while depositing the offer. **(This clause will not be applicable for e-tenders)**
2. E-Mail / Internet / EDI offers received in time shall be considered only when such offers are complete in all respects. In case of offers received through E-mail, please send the offer to the email ID specified in the SCC of the tender. (Refer to SCC document of tender)
3. In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand or through posts/couriers, the offers are to be handed over either of the two officers whose names are mentioned in the RFQ. (Refer to SCC document of tender)
4. Tenders will be opened on due date, time and venue as indicated in the RFQ in the presence of bidders at the venue indicated in the RFQ. In case of e-procurement, bidders can see tender results till seven days after due date and time.
5. Vendor will be solely responsible:
 - a. For submission of offers before due date and time. Offers submitted after due date and time will be treated as "Late offers" and will be rejected.
 - b. For submission of offers in the correct compartment of the tender box based on the day of due date (Monday/Wednesday/Friday). Please check before dropping your offer in the correct tender box.
 - c. For depositing offers in proper sealed condition in the tender box. If the bidder drops the tender in the wrong tender box or if the tender document is handed over to the wrong person BHEL will not be responsible for any such delays.
 - d. For offers received through email etc., suppliers are fully responsible for lack of secrecy on information and ensuring timely receipt of such offers in the tender box before due date & time.
 - e. In case of e-tender, all required documents should be uploaded before due date and time. Availability of power, internet connections, etc. will be the sole responsibility of the vendor. Wherever assistance is

needed for submission of e-tenders, help line numbers and executives of service provider of BHEL may be contacted.

Service provider: M-junction

Website address: <https://bheleps.buyjunction.in/>

Helpline no.: 033-66106426/6217/6013/6046/6176 (9:30 am to 5:30 pm)

9163348283/9163348284/9163348285/9163348286/8584008116 (5:30 pm to 8:30 pm)

Purchase Executive / BHEL will not be responsible for any of the activities relating to submission of offer.

D. PROCESSING OFFERS RECEIVED:

1. Any discount / revised offer submitted by the supplier on its own shall be accepted provided it is received on or before the due date and time of offer submission (i.e. Part-I bid). The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.
2. Changes in offers or Revised offers given after Part-I bid opening shall not be considered as a part of the original offer unless such changes / revisions are requested by BHEL.
3. In case there is no change in the technical scope and / or specifications and / or commercial terms & conditions, the supplier will not be allowed to change any of their bids after Technical bids are opened (after the due date and time of tender opening).
4. In case of changes in scope and/ or technical specifications and/ or commercial terms & conditions by BHEL and it accounts for price implications from vendors, all techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. Impact price will be applicable only for changes in technical specification / commercial conditions by BHEL. The impact price must be submitted on or before the cut-off date specified by BHEL and the original price bid and the price impact bid will be opened together at the time of price bid opening.
5. BHEL EDN reserves the right to adopt Reverse Auction or standard Price Bid Opening procedure for price evaluation, at its discretion. This will be decided after completion of technical evaluation of tender. **(Refer Annexure III for Guidelines for Reverse Auction).**
6. Un-opened bids (including price bids) will be returned to the respective bidders after release of PO and receipt of order acknowledgement from the successful bidder.
7. After receipt of Purchase Order, supplier should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and / or any other relevant documents as per Specification / Purchase Order, as and when required by BHEL / Customer.
8. Any deviation to the terms and conditions not mentioned in the quotation by supplier in response to this enquiry will not be considered, if put forth subsequently or after issue of Purchase Order, unless clarification is sought for by BHEL EDN and agreed upon in the Purchase Order.
9. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL").
 "Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and duties, freight charges, insurance, service tax for services, any other cost indicated by vendor for execution of the contract and loading factors (for non-compliance to BHEL Standard Commercial Terms & Conditions). Benefits arising out of Nil Import Duty on Mega Projects, Physical Imports or such 100% exemptions (statutory benefits), customer reimbursements of statutory duties (like Excise Duty, CST, VAT) will also be taken into account at the time of tender evaluation. (wherever applicable and as indicated in SCC document of tender)

10. For evaluation of offers in foreign currency, the exchange rate (TT selling rate of SBI) shall be taken as under:

Single part bids: Date of tender opening
Two/three part bids: Date of Part-I bid opening
Reverse Auction: Date of Part-I bid opening

In case of Performance Bank Guarantee (PBG) also, exchange rate will be considered as mentioned above for converting foreign currency to Indian currency and vice versa.

If the relevant day happens to be a bank holiday, then the exchange rate as on the previous working day of the bank (SBI) shall be taken.

11. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers.

E. INFORMATION ON PAYMENT TERMS:

1. All payments will be through Electronic Fund transfer (EFT). Vendor has to furnish necessary details as per BHEL standard format **(Refer Annexure IV)** for receiving all payments through NEFT. (Applicable for Indian vendors only)
2. In case of High Sea Sales transaction, customs clearance of the consignment landed on Indian Sea / Air ports will be done by BHEL based on the original HSS documents provided by vendors. All warehousing charges due to delay in submission of complete and or correct HSS documents to BHEL will be to suppliers account only. Such recovery will be made out of any of the available bills. **(Refer Annexure V)**.
3. Statutory deductions, if any, will be made and the deduction certificate shall be issued. In case vendor does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act. (Applicable for Indian vendors only).
Foreign vendors shall submit relevant details of their bankers like Swift Code, Banker's Name & Address etc.
4. Vendors must submit bills & invoices along with required supporting documents in time. Incomplete documentation / delayed submission of invoice / documents will result in corresponding delay in payment.

F. STANDARD PAYMENT TERMS OF BHEL-EDN

Purchase Orders for indigenous procurement

Refer Annexure-XII for Highsea sales payment

(a) SUPPLY WITH E&C:

- 1) 85% of basic value (excluding E&C charges) + 100% of taxes, duties and freight charges will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation whichever is later.
- 2) 15% of basic value (retention money), (excluding E&C charges) will be paid in 15 days from the date of submission of documents against supplementary invoice with proof of completion of E&C along with E & C charges (if any)

(b) SUPPLY WITH SUPERVISION OF E&C:

- 1) 90% basic value (excluding E&C charges) + 100% of taxes, duties and freight charges will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation whichever is later.
- 2) 10% of basic value (retention money), (excluding E&C charges) will be paid in 15 days from the date of completion of erection and commissioning against supplementary invoice with proof of completion of E&C along with supervision charges (if any)

(c) SUPPLY ONLY:

- 1) 100% of PO value with taxes, duties and freight will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation whichever is later.

Purchase orders for import procurement:**(d) SUPPLY WITH E&C:**

- 1) 85% of the basic value (excluding E&C charges) will be paid in 45 days, against usance draft of 45 days, from the date of AWB/BOL on submission of complete set of documents.
- 2) 15% of basic value (retention money), (excluding E&C charges) will be paid in 15 days from the date of completion of E&C along with E & C charges against supplementary invoice with proof of completion of E&C (if any).

(e) SUPPLY WITH SUPERVISION OF E&C:

- 1) 90% of the value of the order will be paid on the 45th day, against usance draft of 45 days, from the date of AWB/BOL on submission of complete set of documents.
- 2) 10% of basic value (retention money) will be paid in 15 days from the date of completion of erection and commissioning against supplementary invoice with proof of completion of E&C along with supervision charges (if any).

(f) SUPPLY ONLY:

- 1) 100% of PO value will be paid against usance draft of 45 days from the date of dispatch or 15 days from the date of submission of complete set of documents whichever is later.

LOADING FACTORS FOR PAYMENT TERMS:

- 1) For offers received with requests for negotiation of documents through bank loading will be 15% of basic value (all bank charges to be borne by the seller).
(This loading factor is applicable only for purchase orders for indigenous supply).
- 2) In all cases where credit period is 30 days but not in line with the above mentioned standard payment terms offered loading applicable will be 5% of basic value.
(This loading factor is applicable only for purchase orders for indigenous supply).
- 3) For offers received with Letter of Credit payment term in place of sight draft payment term, loading applicable will be 5% of basic value. Additional loading of 5% will be applicable for payment terms as Letter of Credit with usance of less than 45 days.
(This loading factor is applicable only for purchase orders for imported supply).
- 4) For offers received with Sight Draft payment terms with usance of less than 45 days, loading of 5% will be applicable.
(This loading factor is applicable only for purchase orders for imported supply).
- 5) All payment terms with credit period of less than 30 days for indigenous supply and any other variation of payment terms are liable for rejection.
- 6) Standard payment terms indicated in para F (a), (b), (c), (d), (e) and (f) will not attract any loading.

Note 1: Basic value of Purchase Order mentioned above will include all components of the purchase order and will exclude only taxes, duties, freight and E&C charges (wherever applicable).

Wherever the Purchase Order is split into import portion and indigenous portion of supply the retention money will be 15% or 10% (as applicable) of both purchase order values put together.

Note 2: *If the E&C could not be completed till the end of the Warranty period due to reasons not attributable to the supplier, BHEL may consider releasing the retention money to the supplier against Bank Guarantee for equivalent value valid for an initial period of one year.*

G. Bank guarantee (BG) / Performance bank guarantee (PBG):

1. Bank guarantee (BG) / Performance bank guarantee (PBG) will be applicable as called in the tender documents refer SCC. Such PBG shall be valid for a period as called in SCC for a value equal to 10 % of the basic value of the purchase order. No deviation for the duration of PBG / BG will be permitted.
 - a. PBG shall be from any of the BHEL consortium of bankers **(refer Annexure VI)**.
 - b. PBGs from nationalized banks are also acceptable.
 - c. PBG should be sent directly by the bank to the dealing executive mentioned in the purchase order located at the address mentioned in the purchase order. PBG should be in the format indicated. **(Refer annexures VII & VIII respectively)**. No deviation to these formats will be allowed.
 - d. Confirmation from any of the BHEL consortium of banks or any of the Indian Public Sector Banks is essential for the acceptance of PBGs issued by foreign banks (located outside India).
 - e. Expired BGs / PBGs will be returned only after expiry of the claim period or on completion of the contractual obligation.
 - f. **Non acceptance for submission of PBG will attract loading as indicated below**
 - i. Loading will be equal to the percentage of value for which BG / PBG is not provided. (Ex: if PBG / BG is given for 3 % of the basic value against 10% specified, loading applicable will be 7% (10 – 3 = 7 %). This value will be added to the quoted price while evaluating the lowest offer.

H. PROVISIONS APPLICABLE FOR MSE VENDORS (MICRO AND SMALL ENTERPRISES)

Vendors who qualify as MSE vendors are requested to submit applicable certificates (as specified by the Ministry of Micro, Small and Medium Enterprises) at the time of vendor registration. Vendors have to submit any of the following documents along with the tender documents in the Part I / Technical bid cover to avail the applicable benefits.

- a. Valid NSIC certificate or
- b. Entrepreneur's Memorandum part II (EM II) certificate (deemed valid for 2 years).
- c. EM II certificate with CA certificate **(in the prescribed format given in Annexure IX)** applicable for the year certifying that the investment in plant and machinery of the vendor is within permissible limits as per the MSME Act 2006 for relevant status where the deemed validity is over.
- d. Documents submitted for establishing the credentials of MSE vendors must be valid as on the date of part I / technical bid opening for the vendors to be eligible for the benefits applicable for MSE vendors. Documents submitted after the Part I / Technical bid opening date will not be considered for this tender.

PURCHASE PREFERENCE FOR MSE VENDORS:

- e. MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 20% of the requirement against this tender provided
 1. The MSE vendor matches the L1 price
 2. L1 price is from a non MSE vendor
 3. L1 price will be offered to the nearest vendor nearest to L1 in terms of price ranking (L2 - nearest to L1). In case of non-acceptance by the MSE vendor (L2) next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).
 4. 20% of the 20% (i.e. 4% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) and (2) are fulfilled.

5. In case no vendor under SC / ST category firms are meeting the conditions mentioned in (1) and (2) or have not participated in the tender, in such cases the 4% quantity will be distributed among the other eligible MSE vendors who have participated in the tender.
6. Serial no. 1 to 5 will not be applicable wherever it is not possible to split the tendered quantity / items on account of customer contract requirement, or the items tendered are systems. Such information that tendered quantity will not be split will be indicated in the SCC.

I. INTEGRITY COMMITMENT IN THE TENDER PROCESS, AND EXECUTION OF CONTRACTS:

1. Commitment by BHEL:

BHEL commits to take all measures necessary to prevent corruption in connection with the Tender process and execution of the Contract. BHEL will, during the tender process, treat all bidder / suppliers in a transparent and fair manner, and with equity.

2. Commitment by Bidder(s)/ Contractor(s):

- a. The Bidder(s)/ Contractor(s) commit(s) to take all measures to prevent corruption and will not directly or indirectly try to influence any decision or benefit which he is not legally entitled to.
- b. The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding or any actions to restrict competition.
- c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant Acts. 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 BHEL as part of business relationship.
- d. 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 and shall adhere to the relevant guidelines issued from time to time by Government of India/ BHEL.

If the Bidder(s) / Contractor(s), before award or during execution of the Contract commit(s) a transgression of the above or in any other manner such as to put his reliability or credibility in question, BHEL is entitled to disqualify the Bidder(s) / Contractor (s) from the tender process or terminate the contract and/ or take suitable action as deemed fit.

PURCHASE EXECUTIVE

ANNEXURE - I
LIST OF INTERNATIONAL GATEWAY AIRPORTS

For airbased consignment, terms of delivery will be on FCA basis from following listed airports only.
This list is valid from 01.03.2013 to 28.02.2015. Vendors are requested to verify this list for use after 28.02.2015.

SCHEDULE NO	COUNTRY	CURRENCY CODE	AIRPORT
D01	UK	GBP	LONDON (HEATHROW)
D02	UK	GBP	NEW CASTLE
D03	UK	GBP	OXFORD. CHETLAM
D04	UK	GBP	BRISTOL. WELLINGBOROUGH
D05	UK	GBP	BIRMINGHAM
D06	UK	GBP	EAST MIDLANDS
D07	UK	GBP	MANCHESTER
D08	UK	GBP	LEEDS
D09	UK	GBP	GLASGOW
D10	FRANCE	EURO	PARIS (ROISSY) & LYON
D11	SWEDEN	EURO	STOCKHOLM
D12	SWEDEN	EURO	GOTHENBERG & MALMO
D13	ITALY	EURO	ROMA, MILAN
D14	ITALY	EURO	TURIN, BOLOGNA, FLORENCE
D15	NETHERLANDS	EURO	AMSTERDAM, ROTTERDAM
D16	AUSTRIA	EURO	VIENNA, LINZ, GRAZ
D17	BELGIUM	EURO	ANTWERP, BRUSSELS
D18	DENMARK	DKK	COPENHAGEN
D19	JAPAN	JPY	TOKYO, OSAKA
D20	SINGAPORE	SGD	SINGAPORE
D21	CANADA	CAD	TORONTO
D22	CANADA	CAD	MONTREAL
D23	USA	USD	NEW YORK, BOSTON
D24	USA	USD	CHICAGO
D25	USA	USD	SAN FRANCISCO, LOS ANGELES
D26	USA	USD	ALANTA, HOUSTON
D27	GERMANY	EURO	MUNICH, KOLN, DUSSELDORF, HANNOVER, HAMBURG, STUTTGART, DAMSTADT, MANIHIEM, NURUMBERG
D28	GERMANY	EURO	FRANKFURT
D29	GERMANY	EURO	BERLIN
D30	SWITZERLAND	SFR	BASLE, ZURICH, GENEVA
D31	SPAIN	EURO	BARCELONA
D32	AUSTRALIA	AUD	SYDNEY
D33	AUSTRALIA	AUD	MELBOURNE
D34	AUSTRALIA	AUD	PERTH
D35	CZECH	EURO	PRAGUE
D36	HONG KONG	HKD	HONG KONG
D37	NEW ZELAND	NZD	AUCKLAND
D38	RUSSIA	USD	MOSCOW
D39	SOUTH KOREA	USD	KIMPO INTERNATIONAL, INCHEON
D40	FINLAND	EURO	HELSINKI
D41	ROMANIA	EURO	BUCHAREST
D42	NORWAY	EURO	OSLO
D43	IRELAND	EURO	DUBLIN
D44	ISRAEL	USD	TEL AVIV
D45	UAE	USD	DUBAI
D46	OMAN	USD	MUSCAT
D47	EGYPT	USD	CAIRO
D48	TAIWAN	USD	TAIPEI
D49	UKRAINE	USD	KIEV
D50	CHINA	USD	SHANGHAI, SHENZHEN
D51	PHILIPINES	USD	MANILA
D52	MALAYSIA	USD	KUALALUMPUR, PE NANG
D53	CYPRUS	USD	LARNACA
D54	SOUTH AFRICA	USD	JOHANNESBERG, DURBAN
D55	SLOVAKIA	EURO	BARTISLOVA
D56	SAUDI ARABIA	SAR	RIYADH
D57	TURKEY	EURO	ISTANBUL
D58	THAILAND	USD	BANGKOK
D59	BRAZIL	USD	SAO PAULO, RIO DE JANEIRO

ANNEXURE – II
DISCREPANCY IN WORDS & FIGURES – QUOTED IN PRICE BID

Following guidelines will be followed in case of discrepancy in words & figures-quoted in price bid:

(a) If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.

(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

(d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

ANNEXURE-III
GUIDELINES FOR REVERSE AUCTION PROCEDURE

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit “online sealed bid” in the Reverse Auction. Non-submission of “online sealed bid” by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL’s standard practice.
12. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the “Business Rules of Reverse Auction”, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

16. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

*The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. **The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.***

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com)."

As a reminder to the bidders, system will flash following message (in RED Color) during the course of 'online sealed bid':

"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL"

ANNEXURE - IV
Electronic Funds Transfer (EFT) OR
Paylink Direct Credit Form

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): _____ CREATE _____ CHANGE

BHEL Vendor / Supplier Code:

Company Name :

Permanent Account Number(PAN):

Address

City:

PINCODE

STATE

Contact Person(s)

Telephone No:

Fax No:

e-mail id:

1 Bank Name:

2 Bank Address:

3 Bank Telephone No:

4 Bank Account No:

5 Account Type: Savings/Cash Credit

6 9 Digit Code Number of Bank and branch
appearing on MICR cheque issued by Bank

7 Bank IFSC Code(applicable for NEFT)

8 Bank IFSC code(applicable for RTGS)

(Indian Financial System Code)

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone No. with STD Code

Company Seal

Bank Certificate

We certify that _____ has an Account No _____ with us and we confirm that the bank details given above are correct as per our records.

Date:

(.....)

Place:

Signature

Please return completed form **along with a blank cancelled cheque or photocopy** thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

In case of any Query, please call concerned purchase executive.

ANNEXURE - V
PRESENT PROCEDURE FOR SALE IN TRANSIT (HIGH SEA SALES)

In case of High Sea Sales, vendor should submit following documents:

1. ORIGINAL HIGH SEA SALES AGREEMENT

- Sale agreement (on Rs. 200/- non-judicial stamp paper & notarised with 2 witnesses with identity) has to be signed between BHEL and the Party importing material. The date of the sale documents should be in between the date of House Air Way Bill / Bill of Lading and before landing of the goods in Indian origin.
- The date of the stamp paper should be prior to the Air Way Bill / Bill of Lading date.
- Following shall be included in the High Sea Sales Agreement:
“THE BUYER ALSO UNDERTAKE DISCHARGES, THE OBLIGATION AND FULFILLMENT OF CONDITIONS, IF ANY, ATTACHED TO THE IMPORTATION, ASSESSMENT AND CLEARANCE OF THE GOODS IN TERMS CUSTOMS TARIFF ACT 1975, THE CUSTOMS ACT 1962 & RULES & REGULATIONS MADE THERE UNDER AND OTHER RELEVANT ACTS, ORDERS, NOTIFICATIONS”.

2. ORIGINAL INVOICES: INDIGENOUS RUPEE INVOICE & FOREIGN CURRENCY INVOICE

- Prices should be C.I.F., designated airport/seaport basis.
- I.E.C., C.S.T., K.S.T. Nos. to be mentioned.
- Description of item (Nomenclature), Unit & Quantity in both the Foreign Currency & the Indigenous Invoice in Rupee shall be exactly as per Purchase Order Description of item, Quantity and Unit. The Indigenous Invoice value shall be exactly as per Purchase Order value.
- Seller should give Foreign Currency Invoice from the original consignor. The Foreign Currency Invoice value should be at least 2% (two per cent) less than the Indigenous Rupee Invoice value in equivalent foreign currency.

4. ORIGINAL HOUSE AIR WAY BILL/ BILL OF LADING

- The sale agents should duly endorse House Air Way Bill (HAWB) for air shipments or original Bill of Lading (O.B.L.) for sea shipments and Foreign Currency Invoice in favour of BHEL-EDN.

5. ORIGINAL CARGO ARRIVAL NOTICE FROM FORWARDER.

6. ORIGINAL DELIVERY ORDER ISSUED IN NAME OF BHEL-EDN.

7. ORIGINAL PACKING LIST.

8. A LETTER TO THE COMMISSIONER OF CUSTOMS FOR EFFECTING ABOVE SALE.

9. A LETTER TO THE DEPUTY ASSESSOR (OCTROI) FOR EFFECTING ABOVE SALE IN FAVOUR OF BHEL.

REMARKS: In case vendor needs any clarifications on the above, the same may be sought in writing.

Annexure-VI
BHEL MEMBER BANKS (LIST OF CONSORTIUM BANKS)

BANK GUARANTEE (BG) SHALL BE ISSUED FROM THE FOLLOWING BANKS ONLY:

	Nationalised Banks		Nationalised Banks
1	Allahabad Bank	19	Vijaya Bank
2	Andhra Bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign Banks
5	Corporation Bank	21	CITI Bank N.A
6	Central Bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Ltd. (HSBC)
8	Indian Overseas Bank	24	Standard Chartered Bank
9	Oriental Bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private Banks
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC Bank
15	State Bank of Travancore	30	Kotak Mahindra Bank Ltd
16	UCO Bank	31	ICICI Bank
17	Union Bank of India	32	IndusInd Bank
18	United Bank of India	33	Yes Bank

Note:

- All BGs must be issued from BHEL consortium banks listed above.
- BHEL may accept BG from other Nationalised Banks also which are not listed above.
- BG will not be accepted from Scheduled Banks and Co-operative Banks.
- In case BG is issued from a bank located outside Indian territory and is issued in foreign currency, the BG must be routed through and confirmed by any one of the above mentioned consortium banks or any of the Indian Public Sector Banks.
- This list is subject to changes. Hence vendors are requested to check this list every time before issuing BGs.

ANNEXURE-VII

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited ¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ² hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----) without any demur, immediately on a demand from the Employer, .

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹

c) Unless the Bank is served a written claim or demand on or before _____¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

⁸ BG AMOUNT IN FIGURES AND WORDS.

⁹ VALIDITY DATE

¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

ANNEXURE-VIII

Note for performance bank guarantee:

1. To be executed in Rs. 100/- Non-Judicial stamp paper.
2. To be submitted by issuing bank to Purchase Dept. directly. Please give BHEL address to banker.
3. Do not enclose with Bank document.
4. Modifications and additions/deletions to this BG format shall not be permitted.
5. **In Case of Bank Guarantees submitted by Foreign Vendors-**
 - a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
 - b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
 - b.4 The BG should clearly specify that the demand or other document can be presented in electronic form.

Annexure - IX
Certificate by Chartered Accountant on Letter Head

This is to certify that M/s
.....(Hereinafter referred to as 'Company')
having its registered office at is registered under MSMED Act 2006,
(Entrepreneur Memorandum No (Part-II dtd
Category: (Micro/Small). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as
on date..... **as per MSMED Act 2006 is as follows:**

- 1. For Manufacturing Enterprises:** Investment in plant and machinery (i.e., original cost excluding land and building and the items specified by the Ministry of Small Industries vide its notification No.S.O.1722 (E) dated October 5, 2006:
- 2. For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.Lacs.

The above investment of Rs. Lacs in within permissible limit of
Rs..... Lacs for.....Micro / Small (Strike off which is not
applicable) Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership Number -

Seal of Chartered Accountant

Guidelines for Indian Agents
ANNEXURE - X

- Definition of Indian Agent: An Indian Agent of foreign principal is an individual, a partnership, an association of persons, a private or public company, that carries out specific obligation(s) towards processing of BHEL tender or finalization or execution of BHEL's contract on behalf of the foreign supplier.

In case of yes, vendor to note the following and reply accordingly:

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- v. Tax deduction at source is applicable to the agency commission paid to the Indian agent as per the prevailing rules.
- vi. In the absence of any agency agreement, BHEL shall not deal with any Indian agent (authorized representatives / associate / consultant, or by whatever name called) and shall deal directly with the foreign principal only for all correspondence and business purposes.
- vii. The "Guidelines for Indian Agents of Foreign Suppliers" enclosed at annexure - 'A' shall apply in all such cases.

- viii. The supply and execution of the Purchase Order (including indigenous supplies/ service) shall be in the scope of the OEM/ foreign principal. The OEM/ foreign principal should submit their offer inclusive of all indigenous supplies/ services and evaluation will be based on 'total cost to BHEL'. In case OEM/ foreign principal recommends placement of order(s) towards indigenous portion of supplies/ services on Indian supplier(s)/ agent on their behalf, the credentials/ capacity/ capability of the Indian supplier(s)/ agent to make the supplies/ services shall be checked by BHEL as per the extant guidelines of Supplier Evaluation, Approval & Review Procedure (SEARP), before opening of price bids. In this regard, details may be checked as per Annexure-B (copy enclosed). It will be the responsibility of the OEM/ foreign principal to get acquainted with the evaluation requirements of Indian supplier/ agent as per SEARP available on www.bhel.com.

The responsibility for successful execution of the contract (including indigenous supplies/ services) lies with the OEM/ foreign principal. All bank guarantees to this effect shall be in the scope of the OEM/ foreign principal.

---X---

Vendor's Signature with Seal

Guidelines for Indian Agents of Foreign Suppliers

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ salary/ retainership being paid by the principal to the agent before the placement of order by BHEL.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 **Disclosure of particulars of agents/ representatives in India, if any.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
 - 2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
 - 2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
 - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
 - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

Disclaimer Certificate For Deemed Export Benefits

I, (Name & Designation)on behalf of M/s. (Name and address of the supplier) hereby certify that we have supplied the following goods to M/s..... (Name and address of the recipient):

S.No.	Inv. No. & date	Description of goods	Unit	Qty.	Value

1. We are the manufacturer exporters/suppliers and are registered/not registered with Central Excise and have not availed and will not avail CENVAT facility in respect of the input/components used in aforesaid supplies. We have also not availed and will not avail rebate on the inputs/components used in aforesaid supplies.

OR

We are the suppliers and our supporting manufacturer(s) is/are registered/not registered with Central Excise and have not availed and will not avail CENVAT facility in respect of the inputs/components used in aforesaid supplies.

2. We also certify that we have not been issued any Advance Authorization/Duty Free Import Authorization in respect of the aforesaid supplied goods and have not availed any benefit thereon.

3. We further state that we have not drawn nor will draw any benefit for deemed export and we have no objection if M/s..... (Name and address of the recipient) draws the deemed export benefits on the supplies mentioned above. (Required to be given in case benefits are claimed by recipient of goods).

OR

We have not given disclaimer certificate to M/s..... (Name and address of the recipient) and will not give disclaimer certificate, in future, in respect of these supplies for claiming deemed export benefits (Required to be given in case benefits are claimed by DTA suppliers).

"Purchase Orders for HSS procurement

(a) SUPPLY WITH E&C:

85% basic value will be paid in 45 days from the date of signing of High Sea Sale agreement or 15 days from the date of submission of complete set of documentation whichever is later. 15% of basic value (retention money), will be paid in 15 days from the date of completion of erection and commissioning against supplementary invoice with proof of completion of E&C

(b) SUPPLY WITH SUPERVISION OF E&C:

90% basic value will be paid in 45 days from the date of signing of High Sea Sale agreement or 15 days from the date of submission of complete set of documentation whichever is later. 10% of basic value (retention money), will be paid in 15 days from the date of completion of Supervision of erection and commissioning against supplementary invoice with proof of completion of E&C

(c) SUPPLY ONLY:

100% basic value will be paid in 45 days from the date of signing of High Sea Sale agreement or 15 days from the date of submission of complete set of documentation whichever is later.

LOADING FACTORS FOR PAYMENT TERM:

In all cases where credit period is 30 days with the above offered standard payment terms, loading applicable will be 5% of basic value.

All payment terms with credit period of less than 30 days and any other variation of payment terms are liable for rejection."

Annexure-XII

High sea sales payment term:



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division
PB 2606 , Mysore Road Bangalore , 560026 INDIA

Page 1 of 4

CE: PR: 003- Rev 00

SPECIAL COMMERCIAL CONDITIONS OF CONTRACT

Reference is brought to BHEL's Instructions to Bidders (Document Ref: CE: PR: 001- Rev 00) and General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 00). These two documents along with Special Conditions of Contract annexed to this RFQ will form an integral part of the contract as and when the RFQ culminates into a Purchase Order / Contract.

RFQ No: NKR0000215

RFQ Date: As per EPS

Due Date: AS PER EPS

Project: NTPC TELANGANA STPP 2X800MW

Item Description: Foundation Field Bus System

Purchase Executives: In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand, the offers are to be handed over to either of the following Purchase Officers: Mr.Nilmani Kumar, Engineer,CE-MM-PR or Mr.H D CHANDRAIAH,Sr.Manager,CE-MM-PR

E-mail IDs: In case offers are sent through E-mail, please send the offers to both of the following email IDs: nilmanikumar@bheledn.co.in & ponnuguru@bheledn.co.in

E-tendering: Applicable / ~~Not Applicable~~

Type of Bid: Three part Bid system (Refer clause B of ITB)

Reverse Auction: ~~Not Applicable~~ / Will be intimated during commercial clarifications to technically acceptable vendors.

In case BHEL does not resort to Reverse Auction, the price bids and price impacts (if any) shall be opened as per BHEL's standard practice.

Splitting of tendered quantity to MSE vendors: The tendered quantity will /will not be split to MSE vendors subject to submission of relevant documents by vendors. ~~Refer clause H of Instructions to Bidders for conditions applicable and for information on documents to be submitted.~~

Destination : a) For indigenous supply Items are to be directly despatched to BHEL's Site Office or Stores/Customer's Stores located at/near **NTPC TELANGANA STPP 2X800MW, KARIMNAGAR, TELANGANA.** Road Permit, if applicable, will be issued by BHEL along with Despatch Clearance.

b) For Import supply – Port of discharge will be any port in India and port of delivery will be ICD-Bangalore

Project Benefits:

Indigenous scope of supply:

• **Imported scope of supply:**

a) **Merit duty is applicable**

b) ~~Project is Mega Power Project or Ultra Mega Power Project: Eligible for "NIL" Customs Duty.~~

c) ~~Physical Export project: Eligible for complete exemption of Customs Duty.~~

Terms of Delivery:

Indicate station of despatch:

Indicate place of manufacturing (wherever applicable): _____

- **Indigenous scope of supply:** Ex-works (including Packing & Forwarding charges but excluding Taxes & Duties): _____

- **Imported scope of supply: C.I.F-Bangalore** (Including Packing, Forwarding, Handling, Ancillary charges like processing of Sight Draft/ Letter of Credit, negotiation of bank documents, Export declaration, Country of Origin etc): _____

[illegible]

		(directly from issuing bank to BHEL), POD (Proof of Delivery) on original L/R, Disclaimer Certificate (as per BHEL format attached as Annexure XI) along with ER-1 form & attested excise invoice (as per project demands like Nuclear Power plant) etc. Apart from the above list, further despatch documents needed, for a particular project will be specified in the Purchase Order. One set of Invoice, Packing List and L/R or AWB shall be e-mailed/faxed immediately to BHEL-EDN after despatch.		
10	O & M Manuals	As built Drawings, O & M Manuals and other approved documents shall be furnished in required no. of sets as per Specification/Purchase Order. Note: Supply of above documents (O&M) in required no. of sets along with material shall be indicated in packing list. If not mentioned BHEL may insist for submission in required sets once again.	AGREE	
11	Quantity Tolerance	If applicable, indicate Quantity tolerance for each of the line item. For Impulse/seamless/ GI pipes one random length applicable for each variety of pipes.	CONFIRMED	Quantity Tolerance % Per Variety
12	Evaluation criteria for tendered item	Itemwise evaluation of tendered item. Splitting of tendered quantity to MSE vendors (if any) is applicable. OR Items will not be split on item wise lowest offer. All the items in the tender will be evaluated and procured as a SINGLE package i.e. ordering will be done on Single L1 vendor.	AGREE	
13	Integrity Commitment	Integrity commitment will be applicable in the tender process and execution of contracts as mentioned in clause "I" of Instructions to Bidders.	AGREE	

*Clause related to GST -

1. Vendor should intimate BHEL immediately on the same date of invoicing without any delay.

2. Invoice submitted should be in the format as specified under GST Laws viz. all details as mentioned in Invoice Rules like GSTIN registration number, invoice number, quantity, rate, value, taxes with nomenclature – CGST, SGST, UGST,IGST mentioned separately, HSN Code / SAC Code etc. Invoice should be submitted in original for buyer plus duplicate for credit availment. It should contain below details -

i) Name, address and GST registration number(GSTIN) of the buyer and consignee(if consignee is different from buyer). All invoices to contain BHEL GSTIN No.. BHEL EDN GSTIN number is 29AAACB4146P1ZB

ii) Invoice number, Date of issue.

iii) Description, quantity, unit, total value of goods or services, rate of tax, amount of tax (CGST,SGST,IGST, UTGST) etc.

iv) The vendor shall mention vendor's GSTIN number in all quotations and Invoices submitted.

v) The vendor shall also mention HSN (Harmonised System of Nomenclature) / SAC (Services Accounting Code) mandatorily in all quotations and invoices submitted.

vi) Bill to Party (Buyer) should be BHEL EDN and GST No. of EDN to be updated

vii) Ship to Party (Consignee) should be respective Customer and GST No. of respective customer to be updated.

3. Payment of GST to Bidder will be made only if it is matching with data uploaded by the Bidder in GST portal.
4. Bidders to give undertaking that GST as mentioned in the Invoice has been paid either through cash or admissible input credit and also filed the returns at the time of submission of invoice.
5. Vendor to give a declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL(if asked by BHEL)."
6. For invoices paid on Reverse charge basis – "Tax payable on reverse charge basis" to be mentioned on the invoice.
7. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount will be recoverable from vendor along with interest levied/ leviable on BHEL.
8. In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law will be recoverable from vendor/contractor along with interest levied/ leviable on BHEL.

GST as applicable will be recovered along with penalty amount.

With this, it is inferred that vendor has understood and accepts all terms & conditions as indicated in Instructions to Bidders (Document Ref: CE: PR: 001- Rev 00) & General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 00).

VENDOR'S SIGNATURE WITH SEAL

NOTE: The above filled-in and signed document shall be uploaded in EPS as part of Part-I Bid without fail. If no deviations are brought, it will be treated as if all terms and conditions of this enquiry are accepted by vendor without any deviation.

GUIDELINES FOR QUOTING IN E-PROCUREMENT SYSTEM

1. **Wherever item required is one set, vendor has to mandatorily give break-up of items as per Bill of material of specification in Techno-commercial bid as attachment and Break-up price for each item in price bid as attachment. In case of difference in total as per Break-up price given and EPS portal price bid, price quoted in EPS portal price bid only will be final and considered for evaluation.**
2. Price quoted by vendors in the EPS portal price bid will be final and other price quoted anywhere else in the attachment will deemed to be invalid.
3. Final comparative statement and ranking will subject to evaluation considering the other price impacts like loading factor and tax credit available to BHEL.
4. Any technical or commercial clarification for this tender can be raised on or before **27.11.2017**. No clarification will be entertained by BHEL after given cutoff date.
5. Refer attached SCC for applicable special commercial condition for the tender. Vendors to quote commercial terms in EPS portal after referring attached SCC. Commercial terms quoted in EPS portal only will be final. Deviation, if any, should be clearly brought out in EPS portal.
6. Any additional commercial term or deviation in commercial term, if sought by any vendor, should be clearly brought out in EPS portal. Any additional commercial term or deviation in commercial term mentioned anywhere else shall be ignored and not be considered for evaluation.
7. If any vendor is not having Digital Signature Certificate (Signing + Encryption) and willing to participate in the tender, vendor need to inform BHEL through email at least three days prior to due date for tender submission and request BHEL for extension of due date. Vendor has to submit the proof of application for getting new DSC and expected date of getting new DSC along with their request. Otherwise their request will not be considered. Based on the above BHEL will take suitable action. If any vendor is requesting for due date extension for getting fresh DSC and not quoting for the tender even after due date extension, it will be viewed seriously by BHEL and action will be taken as per BHEL policy and procedures.