

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

Tender Document for "Supply and E&C Support services for Walkie Talkie System for Suratgarh, Bhdradri and Kothagudem projects project (Ref. NKR0000113)

TENDER REFERENCE DOC	NKR0000113
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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REQUEST FOR QUOTATION

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

RFQ NUMBER: NKR0000113 (for all correspondence)

RFQ DATE: REFER EPROCUREMENT SYSTEM
RFQ DUE DATE: REFER EPROCUREMENT SYSTEM

Phone: 26998663 Fax: 00918026989227

E-mail: nilmanikumar@bheledn.co.in

Purchase Executive : Nilmani Kumar

SI No.	Description	Qty	Unit
1	PR0900005785 Wireless radio communication system as per specification no. CE /416/TSGENCO&SURAT/WT rev00. The system should facilitate radio communication (walkie	1	Set
2	PR0900005785 Wireless radio communication system as per specification no. CE /416/TSGENCO&SURAT/WT rev00. The system should facilitate radio communication (walkie talkie) for the plant. PROJECT: TSGENCO BHADRADRI 4X270MW	1	Set
3	PR0900005785 Wireless radio communication system as per specification no. CE /416/TSGENCO&SURAT/WT rev00 The system should facilitate radio communication (walkie talkie) for the plant. PROJECT - TSGENCO KOTHAGUDEM 1X800MW	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 3 consecutive RFQs you are liable to be removed from our vendors list.

v). Excise Chapter Heading should be mentioned for all items where VAT is applicable .

	भाषपाई प्रम सिद्दाहरी A4-11	CE /416/TSGENCO&SURAT/WT/PQ REV 00 PAGE 01 OF 01
		SECTION- B
		Pre-Qualification Requirements (PQR)
AL F BHARAT HEAVY IRECTLY IN ANY WAY ANY.	1	he bidder should be a reputed manufacturer or system Integrator of Walkie talkie system and shall have designed, engineered, supplied and commissioned walkie alkie system in last 3 years (ending April-2016) to power plants / process industry ollowing supporting documents shall be submitted: Purchase Order Copies
COPY RIGHT AND CONFIDENTIAL INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY CALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.	ii) iii) iv)	Commissioning completion MOM or letter by end customer to substantiate their experience in commissioning of Walkie Talkie system. Bidder may also submit Performance certificates issued by end customer, if available. List of past supplies of walkie talkie system in tabular form mentioning name
COPY RIGHT THE INFORMATION ON THIS BOC ELECTRICALS LIMITED. IT MUST NOT DETRIMENTAL TO TO	Indi repr trou Lett prov repr	of project, year of supply, year of commissioning, make of walkie talkie etc nal Equipment Manufacturers (OEM) of walkie talkie system based outside who are submitting offer for this tender, shall have authorized esentatives in India for support related to Documentation, technical support, pleshooting, Erection, Commissioning & other co-ordination/statutory works. For from OEM detailing Indian representative organization chart should be ded. OEM to also furnish an undertaking letter that in case of change in Indian esentative / agent, OEM shall continue to support the supplies made through ender.
	c) BHI	L shall issue call for service / commissioning with maximum 15 days' notice. er to submit undertaking letter for agreeing to visit project sites within above e period.
	d) Sys sub in th	em Integrators participating on behalf of OEM of walkie talkie system should nit Manufacturer Authorisation Letter from OEM for their consent to participate is tender and for OEM support / troubleshooting during commissioning and ation of the system.

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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) KOT 2) BHA	TSGENCO TSGENCO RRVUNL SE SPECIFICATIO FOR E TALKIE SYSTEM		
	REVISION:00	APPROVED K. Agantas. RAJASEKAR K PREPARED AMIT KR SHARMA	ISSUED 416	DATE 30/04/2015

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EAVY	ANY V				
RAT H	LY IN	1.	Section-A : General Instruction to bidders	01 sheets	
AL F BHAI	RECT ANY.	2.	Section-B : Pre Qualification Requirement	s 01 sheets	
NTI. ETY O	R IND	3.	Section-C: Technical specifications		
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.		a) Scope of Supply	04 sheets	
ONF THE P	ST OF		b) Taskwisal Dagwinsmant	02 -1	
D C	SED D		b) Technical Requirement	02 sheets	
COPY RIGHT AND TION ON THIS DOCUMENT	T BE U	4. An	nexure- I : Bill of material	01 Sheets	
GH1 IS DOC	ST NO	5. Anı	nexure-II: Technical details	41 sheets	
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		SECTION- A			
		GENERAL INSTRUCTIONS TO B	SIDDERS:		
T HEAVY	c T F	oduction: Bidders are required to submit technic commissioning of Walkie Talkie system. All of Tender/Specification shall be submitted in English or Pre-qualification requirements (PQR) are clearly	required documents against this nly.		
L SHARA ECTL) Y.		Specification.			
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. Submission of documents: a. Documents listed in section-B of this specifical Requirements (PQR) should be submitted in a section "written on cover. b. Technical offer / proposal as per section-C of this specified separate cover with "Section-C technical offer" written 		separate cover with "section-B- Pre ecification should be submitted in a		
AND CUMENT IS:	Evaluation methodology: a. Bidder's PQR document cover only will be opened first for review and evaluation be				
Y RIGHT A ON THIS BOCUN IT MUST NOT B ENTAL TO THE		BHEL. In case the bidders offer do not meet the commercial offer will not be considered for further bids of ONLY those bidders who meet PQR shal consideration.	PQR, then corresponding techno- evaluation in the tender. Technical I be opened for review and further		
COPY THE INFORMATION ON TRICALS LIMITED . IT DETRIME	s d a p	Bidders declared qualified for meeting Pre-Qualifi- section B but are not in customer approved vendor documents as provided by bidder under section-B shapproval. Technical offer of only customer approved vorcess of procurement. Offer of Vendors not appro- ejected and shall not be considered for further process.	r list for the project, their credential call be forwarded to M/s customer for vendors will be considered for further byed by customer will be technically		
ELEC	 If required during evaluation of PQR and Technology at BHEL Electronic Division, Bangalore, for during approval of the Vendor documents by 0 representative for discussions with customer / 		sions. Further in the event of order, mer, Vendor shall accompany BHEL		
	4. This specification does not prohibit any vendor to submit their offer along with deviation from the specification. Changes in technical specification / Scope informed to Participating bidders only.				

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AVX ELECTRICALS	DETRIMENTAL TO		Sectio	n-C		
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 COMPANY.		SCOPE OF	SUPPLY		
		REVISION:00		APPROVED K. Layantos.		
				RAJASEKAR K		
				AMIT KR SHARMA	ISSUED 416	DATE 02/09/2013

	बिएचई एल सिम्मिटा A4-11		CE /416/TSGENCO&SURAT/WT/SOS REV 00
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		1. SCOPE OF SUPPLY	
	Refer Annex	cure-I - Bill of material for scoep of supply for all pro-	ojects.
, AY	(A)	INSTALLATION, COMMISSIONING AND TRAIN	<u>ING</u>
F HEAVY IN ANY W		Complete erection/installation & commissioning shall nclude following:	be in supplier's scope and will
Complete erection/installation & commissioning shall be in supplier's so include following: 1) Storage/dispatch of all items in a container which will act as store for under lock and key of supplier. 2) Visit to site for preliminary study for routings. 3) Preparation of cable schedules and routing diagram. 4) Laying of cables between EPABX, Radio Telephone Interface Unit, 5) Digging of trenches, if necessary. 6) Integration of complete system as mentioned above under (A). The se be fully working with all system parameters after installation. 7) Suitable training shall be imparted. GENERAL NOTE Unit rates are to be provided for each and every item and same will any addition / deletion at any stage. Therefore, it does not prohibit for quoting against this RFQ.		am. one Interface Unit, etc. ve under (A). The system must installation. tem and same will be used for	
CO THE INFORMATIO ELECTRICALS LIMITE DETR			

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	2.1.0 <u>DOCUMENTS TO BE FURNISHED</u>			
	2.1.1 Along with the offer(in one set)			
Y WAY	Technical write-up			
r HEAV IN ANY	2. Technical literature / Catalog of each component			
L BHARA' ECTLY IY.	3. Clause-wise deviation list			
VTIA] TY OF I	4. Complete Bill of Material with make & Model			
TIDEN ROPER TLY OF	5. Data sheet of complete system/subsystem			
CONFIDENTI S THE PROPERTY OF DIRECTLY OR IN SEST OF THE COM	6. Wiring diagram/interconnecting arrangement details			
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.	2.1.2 After placement of Purchase Order: (for BHEL/CUSTOMER approval - in 8 sets) 01. Technical write-up 02. Detailed Bill of Material with Make & Model 03. Technical literature / Catalog for all components			
TELEC	04. Data sheets			
	05. Internal interconnecting wiring diagram.			
	06. Quality Plan			
	07. Interfacing diagram & cable type details used/ sugg	estea		
	Note: Soft copies also to be provided for above (against 2.1.2)			

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	2.1.3 Before Dispatch: (4 sets per project for review/acceptance)			
Ш	Type test reports/Certificates as per specification/approved QPPreliminary Instruction /O&M Manual			
AVY .NY WAY	2.1.4 Final approved drawings/documents(4 sets for each project) (At the time of Dispatch)			
HARAT HE	(a) Instruction/O&M manual (b) Bill of material			
ENTIAI ERTY OF B OR INDIRE	(c) Data sheets(d) Drawings GA/layout/wiring/interconnection/schematic, etc(e) Technical literatures/Catalogs			
CONFIDENT STHE PROPERTY DIRECTLY OR IN LEST OF THE CON	These documents shall be in final as-built/approved status. Apart from above one (01) set of Instruction / C Manual shall also be sent directly to site along each system under each project.			
COPY RIGHT AND CONFIDENTIAL RMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.	One (01) set soft copy of Final document shall also be provided to BHEL. The soft copy shall be in CD-ROM/DN media and shall be compatible with Windows-95/98/NT/2000 with drawing / documents in AutoCad-14 / MS-Wo / MS-Excel / Acrobat / HTML formats. Soft copy to be supplied for datasheet/document/drawings at approval stages.			
Y R ON TH	NOTE:			
COPY FORMATION ON DETRIMED, IT DETRIMED	1) Vendor must furnish, all documents, in line with specification along with offer. Deviations if an be clearly brought out in offer, since only such deviations shall be taken cognizance. Incomplete (without documents / not relevant documents as mentioned above) will be rejected without any			
THE INFOR	Also please note that since being standard specs to standard vend earlier BHEL projects or as offered earlier, hold good here.	ors, all other details as executed for		
\vdash	3) Functional test and integrated test shall be performed as applicab	le.		
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		REVISION:00		APPROVED K. Rajantos. RAJASEKAR K		
				PREPARED Months AMIT KR SHARMA	ISSUED 416	DATE 30/04/2016

Sl.no	Description	Suratg 2x660l	BOM for Suratgarh 2x660MW Total Total		BOM for Bhadadri 4x270MW		
		quantity	Unit	quantity	Unit	quantity	Unit
	Wireles Radio Communication System						
1	Wireless handsets portable radios with batteries, belt clip, DTMF	20.00	ant	E0.00	ant	00.00	ant
1	keypad, Battery Charger and Leather carrying Case	20.00	set	50.00	set	80.00	set
2	Base station with built in speaker, DTMF keypad microphone assembly, decoder and CTCSS encoder, Power Supply Unit and other accessories	1.00	set	8.00	set	14.00	set
3	3 db gain VHF vertical colinear Antennae for each Base station including lightning arrestor and aviation warning lights as per statutory requirements	1.00	set	8.00	set	14.00	set
4	GI pipe (50 mm) of 15ft height for each antenna	1.00	set	8.00	set	14.00	set
5	Coaxial cable (each of length 30 m) with connectors for connecting each antennae to their corresponding base station	1.00	set	8.00	set	14.00	set
6	Repeater & Accessories						
	a) Repeater	1.00	set	1.00	set	2.00	set
	b) 3 db gain VHF vertical colinear Antennae for repeater including lightning arrestor and aviation warning lights as per statutory requirements	1.00	set	1.00	set	2.00	set
	c) Super-Flexible semi-rigid Coaxial cable (length 30 m) with connectors for connecting antennae to repeater	1.00	set	1.00	set	2.00	set
	d) GI pipe (50 mm) of 15ft height for antenna	1.00	set	1.00	set	2.00	set
	e) Surge protector	1.00	set	1.00	set	2.00	set
	f) Other accessories for repeater	1.00	set	1.00	set	2.00	set
7	Radio Telephone Interface Unit to interface and communicate with the Plant EPABX System (with all accessories)	1.00	set	1.00	set	2.00	set
8	UPS with 1 hr battery backup of suitable rating as required by:						
	a) Base stations	8.00	set	8.00	set	14.00	set
	b) Repeaters	1.00	set	1.00	set	2.00	set
9	Operating License for two frequencies & same involves : a) Liaisoning b) Obtaining License [It excludes Royaltee and license fee payable to WPC]	1.00	set	1.00	set	1.00	set
10	Any other item to complete the system	1.00	set	1.00	set	1.00	set
11	2 Pair telephone cable from EPABX to Radio Telephone Interface Unit	500.00	mtrs	500.00	mtrs	500.00	mtrs
12	Interconnecting cable from Public Address System to Radio PA interface unit	500.00	mtrs	500.00	mtrs	500.00	mtrs
13	Power cable, 4 core multi stranded, 2.5 sqmm ATC conductor, 7/0.68 mm, PVC type C insulated, PVC-FRLS ST2, inner and outer sheathed, 1100V grade armoured cable as per applicable IS for armoured cables	500.00	mtrs	500.00	mtrs	500.00	mtrs
14	GI Conduit (of width 50mm & having IS mark) with Accessories	1000.00	mtrs	1000.00	mtrs	2000.00	mtrs
	INSTALLATION, COMMISSIONING AND TRAINING						
1	Visit to site for preliminary study for routings.	1.00	LS	1.00	LS	1.00	LS
2	Preparation of cable schedules and routing diagram	1.00	LS	1.00	LS	1.00	LS
3	Laying of cables between EPABX, Radio Telephone Interface Unit, etc	1.00	LS	1.00	LS	1.00	LS
4	Integration of complete system as mentioned above under (A). The system must be fully working with all system parameters after installation	1.00	LS	1.00	LS	1.00	LS
5	Training for walke talkie system - 3 mandays at site	0.00	LS	1.00	LS	1.00	LS

ANNEXURE-II

TECHNICAL SPECIFICATION FOR SURATGARH PROJECT

SPEC. NO. TCE.5750A-H-500-001	TATA CONSULTING ENGINEERS LIMITED	VOLUME IV SECTION: D22
PART B	RRVUNL, 2 x 660 MW, Super-Critical TPS, Stage-V, Units 7 & 8, at Suratgarh, Rajasthan INTRASITE COMMUNICATION SYSTEM	SHEET 4 of 10

2.3 Walkie Talkie(Wireless system)

- 2.3.1 This system will include the following:
 - a) One base station with antennae, power supply units, inverters, voltage stabilizers and all other accessories.
 - b) Twenty (20) Nos. hand held two way transmitter receiver sets.
 - c) Battery charger for hand set batteries-20 Nos.
- 2.3.2 The system will be capable of being coupled with the EPABX system such that any wireless set can be contacted from any of the EPABX-Intercom extensions and any wireless set can be used to contact any of the EPABX-Intercom number/pager through the EPABX. It will also be possible to make a page call on the paging system from the wireless sets.
- 2.3.3 The wireless sets will be addressable type and lightweight.
- 2.3.4 The system will have a minimum operating range of 15 kms. between one base station to another base station. Range from base station to handset is about 8 kms. Handset to handset is about 3 kms.

ISSUE R1

TECHNICAL SPECIFICATION FOR KOTHAGUDEM AND BHADRADRI PROJECTS

Telangana State Power Generation Corporation Ltd. 1x800 MW Kothagudem TPS

EPC Bid Document e-PCT/TS/K/02/2014-15

VOLUME : VI
SECTION-VI
SUB SECTION - P
WIRELESS SYSTEM

This specification is applicable for Kothagudem 1x800MW and Bhadadri 4x270MW projects

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3.00.00	SCOPE OF WORK
4.00.00	PERFORMANCE GUARANTEE
5.00.00	WORK SCHEDULE
6.00.00	REFERENCE DOCUMENTS' CODES AND STANDARDS
7.00.00	PROJECT INFORMATION
8.00.00	TECHNICAL DESCRIPTION
9.00.00	TECHNICAL DATA OF BASE STATION, PORTABLE AND OTHER ACCESSORIES
10.00.00	SPECIFIC REQUIREMENTS - SUPPLY
11.00.00	ERECTION AND COMMISSIONING
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16.00.00	CLEANING, PROTECTION AND PAINTING
17.00.00	IDENTIFICATION, MARKING, PACKING AND STORING
18.00.00	SHIPMENT
19.00.00	QUALITY ASSURANCE PLAN
ENCLOSURE-A	TENTATIVE EQUIPMENT OF WIRELESS SYSTEM

1.00.00 INTENT OF SPECIFICATION

- 1.00.01 This specification is intended to cover the design, manufacture, assembly, testing at manufacturer's works, supply & delivery, of WIRELESS COMMUNICATION SYSTEMS, complete with all accessories for efficient and trouble-free operation for the 1 x 800 MW Stage VII, Unit # 12 Kothagudem Thermal Power Station for Telangana State Power Generaton Corporation Ltd. (TSGENGO)...). The duty of services as specified below and in other drawings forming part of this specification are as required for safe, reliable, trouble free and efficient operation with adequate maintenance facilities as per modern power station practices and as per terms and conditions enumerated in this specification.
- 1.00.02 The technical specifications that follow serve as the guide specification for the Wireless Communication Systems
- 1.00.03 In conformity with the guidelines provided in the specification, the scope of works shall completely cover all the Wireless Communication Systems, functions, activities and documentation specified under the accompanying Technical Specifications. It will include but not limited to the following:
 - Detailed design and engineering of the manufactured equipment; system integration and system engineering.
 - b) Assisting TSGENCO fill up the frequency application form, submission of the same to SACFA (Standing Advisory Committee for Frequency Application) and arranging to obtain the necessary frequency allocation and site clearance from the central and regional authority etc.
 - c) Complete manufacture including shop testing.
 - d) Specifying, procurement, quality inspection of bought-out items from subsuppliers. Design co-ordination for and integration with bought-out items with sub-suppliers.
 - e) Providing engineering drawings, documents, licensed copy of software and developmental tools, data, instruction, operation and maintenance manual etc. for Owner's review/ approval / record.
 - f) Arranging for Owner's inspection and testing of manufactured as well as bought-out items at the respective works.
 - g) Packing and transportation of instruments, equipment, accessories and erection hardware from the manufacturer's works to the site, including transit insurance.
 - h) Opening of site office at location provided by Owner.
 - Receipt, storage, preservation and conservation of instruments, equipment and erection hardware at the site.
 - j) Fabrication of site-constructed items.

- k) Pre-assembly (if any), erection, testing and commissioning of all the equipment and instruments in totality (including erection hardware, accessories/devices etc).
- Performing availability tests and Performance and Guarantee tests on completion of commissioning.
- m) Prepare and submit all approved and as-built drawings both in hard and soft copies.
- n) Furnishing of spares, tools and tackle, test instruments.
- o) Fulfilling post-commissioning liabilities.
- p) Arranging for training of Owner's personnel of different categories.
- q) Other activities detailed in the previous and subsequent sections of the Specification.
- r) Any other activity, not mentioned explicitly, but felt by Bidder as essential for successful completion of work.
- 1.00.04 The requirements enumerated in this specification are based on typical configuration of the plant for bidding purpose. It shall be the responsibility of Bidder to interact with other agencies and package vendors during the time of detail engineering and installation and offer the system to meet the actual functional requirements of the plant.
- 1.00.05 It is not the intent to completely specify all details of design and construction features herein. Nevertheless, the equipment and their installation shall conform to high standards of engineering design and workmanship in all respects.
- 1.00.06 Incase of any conflict or contradiction between any two or more sections of this specification the more stringent condition shall generally be applicable. Owner, however, reserves the right to relax this condition at his discretion.

2.00.00 ABBREVIATION

- . BOQ Bill of Quantities
- CCB Central Control Building
- CCR Central Control Room
- DCS Distributed Control System
- DVSP Digital Voice Storage Playback
- GCC General Conditions of Contract
- LED Light Emitting Diode
- LOI Letter Of Intent
- MDF Main Distribution Frame
- MTTR Mean Time To Repair

- PA Public Address
- PABX Private Automatic Branch Exchange
- PC Personal Computer
- QAP Quality Assurance Plan
- RH Relative Humidity
- RMS Root Mean Square
- SPL Sound Pressure Level
- UCR Utilities Control Room
- UHF Ultra High Frequency
- UPS Uninterruptible Power Supplies

3.00.00 SCOPE OF WORK

3.01.00 **GENERAL**

- 3.01.01 The scope of work in this document specifies the technical & contractual requirements for the design, supply, erection, testing and commissioning of wireless communication system (walkie Talkie) for the Project as "turn-key" plant-wide stand-alone package unit with suitable interfaces as specified.
- 3.01.02 Bidder shall be fully responsible for both the products and their relevant compliance with the requirements of the specification.
- 3.01.03 Provisions included in the specification will not be limitative to the scope of work.
- 3.01.04 Bidder shall provide for any further activities which will improve the quality & performance of the system offered.
 - a) Tentative equipment type & location of Wireless System is listed in the specification document.Based on project requirement the quantities required shall be supplied by the Bidder and detailed information and quantities shall be furnished by the Bidder during detailed engineering for Owner's review.
 - Bidder shall indicate the unit price for each type and size of equipment / items
- Necessary information about the financial and technical resources, organization and experience to undertake the manufacturing and supply of such equipment shall be supplied by Bidder as an evidence of his capability for satisfaction of the Owner. Bidder shall submit along with his Bid a list of major contracts of supply and erection of similar equipment already executed or under execution, giving detailed particulars such as equipment rating, contract value, name of the Owner, year of supply etc.

3.02.00 INCLUSION IN SUPPLY

- 3.02.01 The supply of equipment and materials shall include but not be limited to:
 - a) Eight no. of VHF/UHF Base Station equipment complete with PSU, omni directional antenna, deektep microphone and RF coaxial cable and connectors for overall master control station and five group control station for five operational groups.
 - b) Fifty nos VHF/UHF Hand held portable set (Walkie Talkie sets complete with rechargeable Ni-Mh battery and battery charger.
 - Power Supply Unit for Base Station of adequate rating with one hour Nickel cadmium battery back up including distribution boards etc.
 - d) RF Coaxial Cables, Wires, RF Connectors, BNC-UHF Adaptors, termination / connection accessories.
 - e) Conduits and accessories, junction boxes, terminal blocks, sockets, antenna fixing clamps and fixtures etc except any structure for hoisting antenna which shall be arranged by the Owner.
 - f) Grounding materials and connections.
 - g) All fittings, supports, brackets, clamps and connectors.
 - h) Mandatory spares as specified.
 - i) Erection / commissioning spares.
 - j) Consumables.
 - k) Special Tools & Tackle and test equipment.
 - I) Elarthing as required
 - m) The items not mentioned but required for successful completion and guarantee run of the project / system including modification, addition in existing system shall be in the scope of the tenderer

3.03.00 SCOPE OF SERVICE

Following service shall be provided by Bidder for equipment & systems supplied under this specification. However, Bidder has to provide the services required for completeness and correctness of the system irrespective of whether it is mentioned in the specification or not:-

- 01. Manufacture of all items as per requirement of specification, assembly etc.
- 02. System Engineering, prevision of software etc. Carrying out detail engineering, preparation and submission of all drawings as specified elsewhere in this specification including preparation and submission of area wise bill of materials, layout and erection drawings showing installation of all

- system equipment and components, antenna, cable tray/rack and conduit routing. The Plot Plan shall be referred in this regard
- 03. Installation and Commissioning of the Wireless Communication system establishing reliable and satisfactory level of quality of service including laying of the cables, furnishing of all labor, skilled and unskilled, supervisory personnel, erection tools and tackles, testing equipment, implements, supplies, consumables & hardware and transport for timely and efficient execution of the contract work. The Plot Plan shall be studied for estimation of cable etc for the system. Training to be provided to personnel for maintenance
- 04. Furnishing drawings, documents, data sheets, manuals/catalogs as specified
- 05. Inspection and testing at Bidder's works as per the Quality Assurance Plan
- 06. Packing and forwarding of all equipment included under this specification.
- 07. Erection, Installation and commissioning, site testing of equipment supplied under this specification.
- 08. Laying & Termination of signal, power and grounding cables, rproviding earthing of the system and equipment as specified.
- 09. Establish the specified interfaces and demonstrate operation.
- 10. Bidder will, during the time of detail engineering and installation of the quoted system, interact and coordinate with any other agency regarding collection/retrieval of inputs/information/data and all such works shall be under the scope of this Bidder. If necessary, the Bidder shall contact the Owner before submission of their quotation.
- 11. Project management and scheduling including micro-planning in specific work area and reporting progress periodically.
- 12. Site modification and preparation of "as-built" documentation".
- 13. Prepare "Handing Over" protocol and hand over system to Owner.
- 14. Securing certification from relevant authorities, wherever applicable.
- 15. Project management and scheduling including micro-planning in specific work area and reporting progress periodically.

3.04.00 Scope of Documentation

- 01. Prepare work definition and interfacing requirements of all system components.
- 02. Provide system design documentation.
- 03. Provide all commissioning and test procedures.

- 04. Provide inspection, commissioning and test procedures for Owne's approval.
- 05. Operating & service manuals and handbooks.
- 06. Tag all equipment as per Project Specification Project Procedure.

3.05.00 Addition / Deletion Criteria

The Bidder shall provide all equipment/system/services to meet the functional and parametric requirement of specification including all hardware/software as applicable. However, in case there is any addition / deletion from the specification requirement , necessary price adjustments, can be done on the price based on unit adjustment rates for each item as quoted by the Bidder. Accordinly , the Bidder shall quote unit price of the items quoted by him.

4.00.00 PERFORMANCE GUARANTEE

- 4.00.01 The Systems / Equipment to be supplied under this specification shall meet the guaranteed performance specified in the enclosed data sheet, specification sheet and technical attachment sheet when operating at the rated / specified conditions. The acceptance of the System / Equipment shall be subject to satisfying these parameters during shop test at Bidder's works and / or at site installation in complete assembled condition.
- 4.00.02 Performance figures quoted by Bidder shall be guaranteed within the tolerance permitted by relevant standards. In case of failure of the equipment to meet the guarantee, the equipment may be liable for rejection or the decline in performance from the guaranteed performance figures will be rectified by the Bidder without any extra cost.

5.00.00 WORK SCHEDULE

- 5.00.01 Bidder shall ensure that the delivery of Equipment and accessories shall meet the project schedule. The Project schedule / Work schedule shall be furnished to Bidders during issuing of Bid documents.
- 5.00.02 Bidder shall indicate the phase-wise design, engineering, manufacturing, testing, delivery for the complete package in the form of a bar-chart to match with the project schedule.
- 5.00.03 On finalization of the Contract, a detail supply programme for manufacture shall be furnished by Bidder for approval and will subsequently form a part of contract document.
- 5.00.04 Technical documentation such as Data Sheets, Quality Plan & Drawings are required to be submitted within three weeks of issuance of LOI to Bidder.
- 5.00.05 Modality of approval of technical documentation and priority of supply shall be mutually discussed and agreed upon with Bidder in the kick-off meeting after the placement of LOI.

6.00.00 REFERENCE DOCUMENTS' CODES AND STANDARDS

- 6.00.01 The entire system and accessories materials shall conform to the requirements of the latest issues and most recent revisions and amendments of the standards listed below and to the local laws and regulations applicable to the Project.
- 6.00.02 This Specification shall be read in conjunction with material Standards, codes, practices and regulations.
- 6.00.03 Following non-exhaustive list of specific codes and standards shall apply to the all cables and accessories provided in response to this Specification. Mandatory regulations cannot be superseded by this specification.

6.01.00 GENERAL CODES AND STANDARDS

- 6.01.01 Materials shall be designed, manufactured and tested in accordance with the latest applicable Indian Standards (IS), IEC and other internationally recognized standard except where modified and/or supplemented by this specification. Performance figures quoted shall be guaranteed within the tolerance permitted by relevant standards. In case of failure of the equipment to meet the guarantee, the equipment may be liable for rejection.
- 6.01.02 It shall be Bidder's responsibility to comply with the requirements of all Codes and Standards which are applicable to meet the Specification.
- 6.01.03 The following Codes and Standards form a part of the Specification:

ANSI : American National Standards Institute

• BS : British Standards

CCITT: Consutative Committe on Telephone and Telegraph

EIA : Electronics Industry Association

FM : Factory Mutual

IEC : International Electrotechnical Commission

IEEE : Institute of Electrical and Electronic Engineering

• IS : Indian Standard

ISA : Instrument Society of America

ISO : International Standards Organisation
 ITU : International Telecommunication Union

• NEC : National Electrical code

NEMA: National Electrical Manufacturers Association

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

• ANSI S3.5 Methods for the Calculation of the Speech Intelligibility Index

BRITISH STANDARDS (BS)

• BS EN 60268-5 : 2003 Sound system equipment, Loudspeakers.

•	BS EN 6840-13 : 1998	Sound system equipment. Listening tests on Loudspeakers.
•	BS 6840-14 : 1987	Sound system equipment. Guide for circular and elliptical Loudspeakers; outer fram diameters and mounting dimensions.
•	BS 8473 :2006+A1:2008	Intruder and hold-up alarm systems. Management of false alarms. Code of practice.

INDIAN STANDARD (IS)

 IS-5 Colour for ready mixed paints and enamels
--

•	IS-694	PVC	insulated	cables	for	working	voltages	upto	and	including
		1100	V.							

- IS-1554 PVC insulated electric cables.
- IS-2147 Degree of protection provided by enclosures for low voltage switchgear and controlgear.
- IS-3961 Recomended current ratings for cables.
- IS-3975 Mild steel wires, formed wires and tapes for armouring of cables.
- IS-5831 PVC insulation and sheath of electric cables.
- IS-7741 Specification for Loudspeakers.
- IS-8130 Conductors for insulated electric cables and flexible cords.
- IS-9302 Characteristics and methods of measurements for sound system equipment.
- IS-9537 Conduits for electrical installations.
- IS-10426 Specification for public address amplifiers.
- IS-10918 Vented type nickel cadmium batteries.

INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)

• IEC 60268-5 Ed.3.1 en:2007	Sound System Equipment – Part 5: Loudspeakers.
• IEC 60529	Classification of Degrees of Protection Provided by Enclosures (IP Code)
• IEC 60839-5-2 ed. 1.0 b:1991	Alarm Systems Part 5 Requirements for alarm transmission systems.
• IEC 61000	(All Parts) Electromagnetic Compatability (EMC)

The edition or revision of the Codes and Standards shall be the edition current at the date of the Contract.

6.02.00 DISCREPANCIES

6.02.01 In case of discrepancies between the technical requirements and other applicable Engineering Standards, Materials System Specifications, Standard Drawings, or

industry standards, codes, and forms shall be resolved in writing by Bidder with the employer. Before starting the manufacturing / supply, Bidder shall inform employer of any discrepancy between the instructions of the present specification and Bidder's standard.

6.02.02 It shall be the responsibility of Bidder to determine and comply with the statutory regulation (i.e. city, state, national, provincial, etc. codes or ordinances) which will apply in the location where the item is to be installed. Mandatory regulations cannot be superseded by this specification.

7.00.00 PROJECT INFORMATION

- 7.00.01 Environment specified as 'Indoor' shall be air-conditioned, where mentioned, having temperature between 20-25 degrees C and RH of about 40%. Outdoor location shall follow 'site condition' data.
- 7.00.02 All outdoor equipment shall be exposed to high humidity & oil/water vapour, coal dust and fly ash laden environment, vibration and electromagnetic interference generally encountered in similar industrial environment.
- 7.00.03 All outdoor equipments shall be mechanically or environmentally protect with sunshade or canopy wherever necessary.
- 7.00.04 For further details Lead Specification Volume-IIA shall be referred

8.00.00 TECHNICAL DESCRIPTION

8.01.00 GENERAL REQUIREMENTS

- 8.01.01 The Wireless Communication system shall be designed in accordance with the following criteria.
 - a) The system provides for quick and reliable communication between plant personnel located in different areas.
 - b) The system shall operate on phase/frequency modulation in the frequency band 136-174Mhz / 435-490Mhz.
 - c) The system will be installed and used in an adverse industrial environment. Equipment in some areas will be subject to vibration, coal dust, fly-ash, oil/water vapors as prevalent in thermal generating plant.
 - d) The design shall be such as to provide highly intelligible voice communication even in areas of high background noise (50 db to 100 db).
 - The wireless communication will be based on single frequency simplex operation.

8.02.00 System Description

8.02.01 The system shall comprise Five (5) nos. separate and independent groups and one (1) overall Master Control Station of communication systems . Each group

shall have five (5) nos of Hand Portable set and one (1) no. of Base Station at its control point location. Actual distribution plan may change during detail engineering stage. The locations and quantities shall be approved by the Owner/Owner's Consultant during detailed engineering stage. Salient features of the plan are as under:

GROUP	SERVICE	LOCATION		
Group #1	unit # 12-Boiler	Control Equipment Room Unit#12		
Group #2 unit # 12-Turbine		Control Equipment Room Unit#12		
Group #3	Common Services and Plant Water System	Service Building		
Group #4	Coal Handling Plant (CHP)	CHP Control Building		
Group #5	Switchyard	Switchyard Control Room		
Overall Master Control Station	Overall Supervision	Communication Room at Common Control Building		

- 8.02.02 Each group shall have one (1) Group Master Control Base station and a five (5) number of subscriber hand portable. Each base station shall can call and converse with any portable set in its group over a single frequency simplex operation Under normal circumstances, portable sets will not directly converse with each other but will be under the control of their Group Master base station. The group master base station will be able to communicate with other Group Master base stations over a separate frequency.
- 8.02.03 In addition, there shall be one (1) Overall Master control Base Station for the entire network, interconnecting all the Group Master Control Base Stations. These Master control Base Stations and Overall Master Control Base Station shall be able to call and converse with one another over a separate channel frequency.
- 8.02.04 Under emergency situations, broadcast calls shall be possible by any group master base station to a given group of portables or to all sets. Under normal situation, the communication between base station and portables in a group will not be heard in other sets in the same group. SELCAL signaling shall be used for this purpose in the portable and base stations.
- 8.02.05 The wireless communication shall be simplex (single frequency direct). The communication shall be inter group (Bases station –Base station) and intra group (Base station –Portable).
- 8.02.06 Inter group communication shall be limited to group master base stations only under normal circumstances. This inter group communication shall be on a separate channel, different from intra group channel frequency. In emergency, this channel will be used as a broadcast channel for all base and portable sets over the entire network.
- 8.02.07 Power supply to base stations and battery chargers of the portable sets shall be from UPS of adequate rating with the an hour back up capacity...

8.03.00 WIRELESS COMMUNICATION SYSTEM OPERATION

8.03.01 Communication Within a Group

- To originate a call within a group, the caller Portable shall transmit the code of the Group Master base station.
- A call attention tone shall be heard over the other loudspeaker of the called set.
- c) The called base station shall acknowledge the call and communicate with the calling party over a simplex frequency in the designated channel. The other group members shall have a channel busy indication in their sets. On completion of the conversation, channel busy indication shall be over and the other member can initiate their call.
- d) For inter group communication between group master base stations and overall group master base station, a separate channel frequency shall be used. The portable sets between two separate groups shall not be able to talk to each other. In the event of such communication, they will inform their respective group master base stations and the message can be manually conveyed by the respective group masters.

8.04.00 POWER SUPPLY

- 8.04.01 Power Supply Unit of adequate rating with one hour back up capacity shall provide the power supply to the base station of the portable sets. UPS supply shall be provided to the Power Supply Unit of Base Station and Battery Charger of the Portable set.
- 8.04.02 Whenever any equipment is operating at voltage level other than 240V AC, the required conversion hardware compatible with specified power supply will be provided.

8.05.00 ANTENNA SYSTEM

- 8.05.01 The base station shall be connected to high gain omni-directional antenna for simplex operation. The antenna shall be installed over a suitable structure at a height of 20 to 30 meter from the ground level at other locations within the plant.
- 8.05.02 The vehicular mobile shall have omni directional mobile antenna which shall be installed on the body of the vehicle.

8.06.00 WIRELESS COMMUNICATION SYSTEM CABLES

- 8.06.01 Low loss coaxial cable type RG-8 shall be used for connecting the radio base station to antenna.
- 8.06.02 All required cable trays, junction boxes, earth wire and other accessories like standard brackets, nut-bolts, glands, lugs, conduit sleeves, etc., will be required.
- 8.07.00 Specific Requirements For Equipment

8.07.01 Equipment shall be sturdy, impact resistant, dust and damp-proof, generally conforming to IP-54. Equipment for outdoor use shall be weatherproof type, conforming to IPW-55. 8.07.02 The portable and base station shall operate over 136-174 MHz435-490 MHz frequency band. The frequency generation shall be synthesized and programmable. 8.07.03 The portable handset shall have a switchable transmitter power output between 5 watt and 1 watt. 8.07.04 The portable sets and base sets shall have modulation characteristic of 16K0F3E (for 25 KHz channel spacing) or 10K0F3E (for 12.5 KHz channel spacing). 8.07.05 The transmitter output of base station shall be 25 /40 watt. 8.07.06 The receiver sensitivity of the sets shall be 0.25Uv for 12 Db SINAD. 8.08.00 **GROUNDING** 8.08.01 All metal enclosures, conduits shall be grounded in compliance with I.E. rules. 8.08.02 Earthing pits shall be provided for equipment and cable grounding and # 8 SWG G.I. wires shall be run from these pits for grounding. 8.09.00 CABLE/WIRING 8.09.01 Cable shall be generally laid on ladder type trays, available in trenches or within buildings, and clamped at an interval of 300mm. 8.09.02 When such trays are not available, arrangements shall be made by drawing the cables through conduits fixed along wall/column or bottom floor slab.

9.00.00 TECHNICAL DATA OF BASE STATION, PORTABLE AND OTHER ACCESSORIES

9.01.00 **PORTABLE SET**

GENERAL	VH	IF	UHF			
Frequency Range	136-174 MHz 403-440 MHz, 435-480 MHz					
Channels		16 or	r more			
Operating Temperature	-30° C to +60° C (Radio)					
Range	-20° C to +60° C (with NiMH Battery)					
Weight Standard Capacity NiMH	350 g nominal					
Average Battery Life	High Power	Low Power	High Power	Low Power		
@ 5 – 5 – 90 Duty Cycle	5W	1W	4W	1W		

GENERAL	VH	IF	UHF			
Standard Capacity NiMH	> 8 hours	> 1 hours	> 8 hours	> 8 hours		
Sealing	Passes rain testing per IP x 4 (EN60529 : 1991)					
Shock & Vibration	Diecast with impact resistant polycarbonate housing, passes EIA RS – 316B					
Dust & Humidity	Weathe	r resistant housir	ng passes EIA RS	5 – 316B		
Display digits with backlight		1	12			
Transmitter	VH	IF	UI	HF		
RF Output	High Power	Low Power	High Power	Low Power		
KF Output	5W	1W	4W	1W		
Channel Spacing		12.5 /	25 kHz			
Frequency Stability		±2.5	ppm			
Modulation Limiting	± 5 kHz (25 kHz); ± 2.5 kHz (12.5 kHz)					
Audio Response (from 6 dB / oct. Pre- Emphasis, 300 to 3000 Hz)	+1, -3 dB					
Audio Distortion						
@ 1 kHz tone, 60% rated max. dev.	<5%					
FM Hum & Noise	40 dB					
Receiver	VH	IF	UHF			
Channel Spacing	High Power	Low Power	High Power	Low Power		
Charmer Spacing	25 kHz	12.5 kHz	25 kHz	12.5 kHz		
Sensitivity (12 dB SINAD)	0.25 μV					
Audio Distortion	<5%					
Hum and Noise	40 dB					
Audio Output @ <5% Distortion (7.5 V / room temperature)	500 mW into 24Ω					

9.01.01 **System Features**

- a) Full Band coverage.
- b) 12 digit alpha numeric display.
- c) Busy Channel Lockout.

- d) Low Battery Alert.
- f) Coded squelch.
- g) Channel Scan & Priority Scan.
- h) Selective Call Signalling.
- i) Time Out Timer
- j) Busy Channel Lockout
- k) To be complete with battery, detachable belt clip and Helical Antenna
- k) Single position Battery Charger, operable from 220v,50Hz input
- I) Adjustable Transmitter Power level.

9.02.00 **BASE STATION**

GENERAL	VI	łF	Ul	·lF
Frequency Range	136-174 MHz		403-480 MHz,	
Channels	16 or more			
Operating Temperature Range	-30° C to +60° C (Radio)			
Weight	1800 g nominal without Power Supply Unit			
Sealing	Passes rain testing per IP x 4 (EN60529 : 1991)			
Shock & Vibration	Diecast with impact resistant polycarbonate housing, passes EIA RS – 316B			
Dust & Humidity	Weather resistant housing passes EIA RS – 316B			
Display digits with backlight	8			
Transmitter	VHF		UHF	
RF Output	High Power	Low Power	High Power	Low Power
KF Output	40W	25W	40W	25W
Channel Spacing	12.5 / 25 kHz			
Frequency Stability	±2.5 ppm			
Modulation Limiting	± 5 kHz (25 kHz); ± 2.5 kHz (12.5 kHz)			
Adjacent Channel Power	60 dB			
Conducted/Radiated	-36 dBm < 1 GHz			
Emission	-30 dBm > 1 GHz			

GENERAL	VHF		UHF	
Audio Response (from 6 dB/oct. Pre-Emphasis, 300 to 3000 Hz)	+1, -3 dB			
Audio Distortion				
@ 1 kHz tone, 60% rated max. dev.	<3%			
FM Hum & Noise	40 dB			
Receiver	VHF		UHF	
	High Power	Low Power	High Power	Low Power
Channel Spacing	25 kHz	12.5 kHz	25 kHz	12.5 kHz
Sensitivity (12 dB SINAD)	0.25 μV			
Adjacent Channel Selectivity	70 dB			
Conducted Spurious	-57 dBm < 1GHz			
Emission	-47 dBm > 1GHz			
Audio Distortion	<3%			
Hum and Noise	40 dB			
Audio Output @ <3% Distortion	4W into 4Ω			

TCBC - Power Supply

a) Power requirements at : KVA.

415V (To be decided by Bidder)

b) Type of Battery for : 24V/ AH (maintenance free) Emergency supply (To be decided by Bidder)

9.02.01 System Features

a) Full Band coverage.

b) 12 digit alpha numeric display.

c) Busy Channel Lockout.

d) Low Battery Alert.

f) Coded squelch.

g) Channel Scan & Priority Scan.

h) Selective Call Signalling.

- i) Time Out Timer
- j) Busy Channel Lockout
- k) Single position Battery Charger, operable from 220v,50Hz input
- I) Adjustable Transmitter Power level.
- j) Lights Activation
- k) Call Alert
- I) Auto acknowledgement and Automatic Number Identification
- m) To be complete with Power Supply Unit –Input:230Volt,50Hz AC,Output:12 Volt, 10 Amp, DC, Omnidirectional Antenna, RF low loss coaxial cable type RG8, Loud speaker, Desktop Microphone, Power Supply Cable

9.03.00 OMNI DIRECTIONAL ANTENNA

SL. No.	PARAMETER	VALUE
01.	Channel Frequency	VHF/UHF
02.	Impedance (Ohms)	50
03.	VSWR	1.5:1
04.	Input Termination	N type Female
05.	Bandwidth (MHz.)	4 MHz (VHF) / 25 MHz (UHF)
06.	Polarization	Vertical
07.	Radiation Pattern	Omni
08.	RF Power Handling Capacity (Watts)	250
09.	Wind Rating (KMPH)	200

9.04.00 RF COAXIAL CABLE TYPE RG8

SL. No.	PARAMETER	VALUE
01.	AWG Stranding Material	10
02.	Impedance (Ohms/Km)	3.5
03.	Characteristic Impedance (Ohms)	50
04.	Core Dielectric Material	Solid PE

05.	Jacket Material	Black PVC
06.	Overall Nominal Diameter (mm)	10.3
07.	Nominal Inductance µH/m	0.2
08.	Nominal Capacitance @ 1KHz pF/m	82
09.	Nominal Attentuation db/100' (db/100m) @MHz	0,4 @ 5.00/ 0,5 @ 10.0/ 1,0 @ 50.0 /1,4 @ 100.0/ 1,8 @ 200.0 /2,6 @ 400.0/3,6@700
10.	(RMS) Max Operating Voltage	4000

9.05.00 BATTERY & CHARGER

01. Make & Type

02. AH capacity : AH To be decided by the Bidder

03. DC voltage . 24V

04. Charger : Float cum Boost

05. Rating : 24V / A To be decided by the Bidder

96. Battery Back up : 10 Hours at 100% load

10.00.00 SPECIFIC REQUIREMENTS - SUPPLY

10.01.00 RADIO SETS

Radio sets shall be compact and rugged. The shall have required degree of protection

10.01.01 RF Coaxial Cable shall have inner conductor of stranded / solid construction, insulated with PE. Outer conductor shall be in the form of braiding. The cable shall be overall PVC sheathed. The center conductor shall be wrapped with PE thread, covered with solid PE tube.

10.02.00 **CONDUITS**

- 10.02.01 Conduits shall be rigid steel, hot dip galvanized, minimum size of conduits shall be limited to 20 mm.
- 10.02.02 Each standard length (5M) of conduit shall be threaded at both ends.
- 10.02.03 Each piece of conduit shall be straight, free from blister and other defects and covered with capped bushing at both ends.
- 10.02.04 Conduits shall be sized so that conduit fill (ratio of total cable area to conduit area) shall not exceed the following :

One cable
 53%
 Two cable
 31%
 Three cables & up
 40%

- 10.02.05 Conduit runs shall be provided with necessary bends as required.
- 10.02.06 Flexible conduits shall be made with bright, cold rolled annealed and electro-galvanized mild steel strips and coated with PVC.

10.03.00 **NAMEPLATE**

Nameplates shall be furnished for identification of devices and circuits. All switches, controls and indications shall be permanently and legibly marked in English as to their functions.

10.04.00 TROPICAL PROTECTION

- 10.04.01 All equipment, accessories and wiring shall have fungus protection, involving special treatment of insulation and metal against fungus, insects and corrosion.
- 10.04.02 Screens of corrosion resistant material shall be furnished on all ventilating louvers to prevent the entrance of insects.

10.05.00 **PAINTING**

10.05.01 All steel surfaces of all equipment enclosures shall be sand blasted, grounded and pickled as required to produce a smooth, clean surface free of scale, grease & rust.

- 10.05.02 After cleaning, the surfaces shall be given a phosphate coating followed by two coats of high quality primer and stoved after each coat.
- 10.05.03 Equipment enclosures shall then be finished with two coats of synthetic enamel paint of approved shade. For the battery charger enclosure, the synthetic enamel paint shall be of light grey shade (IS shade # 631).
- 10.05.04 Sufficient quantity of touch-up paint shall be furnished for application at site.
- 10.06.00 **SAMPLES**
- 10.06.01 Owner reserves the right to call for samples if considered necessary and the same shall be submitted by the Bidder free and without any obligation.

11.00.00 ERECTION & COMMISSIONING

Bidder's scope of work shall include the erection and commissioning of the entire system offered. Bidder shall include all erection materials, consumables etc for the purpose. Bidder shall arrange all erection tools, tackle and calibration instruments.

11.01.00 INCLUSION IN ERECTION SUPPLY & WORKS

- 11.01.01 Supply of erection hardware with all accessories as specified herein.
 - a) Erection of equipment with all erection material & accessories
 - b) Cabling works as specified.
 - c) Pre-commissioning activity, loop checking, calibration & testing
 - d) Provide supervision of all above activities.
 - e) Supply of consumables
 - f) Supply of erection/commissioning spares.
 - g) Providing all necessary Tools & Tackle
 - h) Painting with anticorrosive paint wherever required.
 - i) Commissioning.

11.02.00 Scope of Erection Service

- 01. Keep calibration records.
- 02. Maintaining proper documentation & handing over to Owner.
- 03. Create defect records and insurance claim documentation.

11.03.00 Technical Specification Of Erection Hardware

a) This section provides the general technical requirements for the erection hardware to be supplied under this package.

b) All erection materials shall be of good quality and conform to the operating environment of the plant.

11.04.00 GENERAL GUIDELINES & PRACTICE FOR ERECTION

. Erection procedure shall follow sound engineering practice thouout and shall not cause hinderance to the activities of other Bidders at the work site. The sequence of work activities shall follow logical sequence and shall be based on work-front availability.

11.05.00 **CABLING / WIRING**

- 11.05.01 In the cases of installation of Omni directional antenna and laying of coaxial cable type RG8, the antenna shall be installed on top of a suitable structure, man-made or fabricated so that the top of the antenna attains a height of minimum 20 meters from the ground level. The coaxial cable shall be connected to the antenna feed point and laid suitably over cable tray through conduit and routed to the respective base station. The antenna supporting clamps etc shall be provided by the Vendor. However, the fabrication and supply of any antenna mast do not come under the scope of the Vendor. The Vendor shall provide a GI pipe of outer diameter 2 inches for fixation of antenna.
- 11.05.02 For coaxial cables run through conduits, the cables shall be drawn through conduits fixed along wall/column. Conduits shall be installed as per relevant IS code. Conduit supports shall be provided in the conduit runs at an interval of 1000 mm for horizontal runs and 750 mm for vertical runs. All conduits, junction/pull boxes shall securely fixed and grounded.
- 11.05.03 For coaxial cables laid directly buried underground, the telephone cables shall be laid by excavating trench in normal soil up to a depth of 1 m unless otherwise specified, providing 75 mm of sand or riddle earth both above and below cable, providing precast concrete slab on top and bricks on sides for cable protection against damage and back filling. The precast concrete slabs on top as specified above shall be marked "Telephone Cable".

11.05.04 **Earthing**

This shall meet the technical requirenets as described in Section VII and VIII of this volume of the specification .

12.00.00 DOCUMENTATION

- 12.00.01 Details of documentation to be supplied as part of the System shall be submitted to Owner for approval prior to execution of the contract.
- 12.00.02 Each documentation deliverable shall be an integral part of Bidder's Project schedule and shall be identified by date for delivery.
- 12.00.03 All documentation shall be in the English language.
- 12.00.04 The following data shall be shown on all documents and/or drawings:
 - Name of Bidder / Bidder

- Correct and complete designation of the document
- Exact indication of the scale employed
- Revision Index and type of revision
- Name of the site.
- 12.00.05 Bidder shall supply final approved sets of documentation in hard copy and soft copies on DVD.
- 12.00.06 Bidder shall provide the signature and seal on the each and every pages of this specification along with their offer for the confirmation to all the clauses. Along with submit deviation/clarification list if any in given format.
- 12.00.07 Final Documentation shall be assembled as per Owner's instructions for collation of Dossiers.
- 12.00.08 Following sections detail the minimum set of documentation that shall be supplied with the System.
- 12.01.00 OPERATION & MAINTENANCE DRAWINGS AND DOCUMENTATION
- 12.01.01 The O&M Drawings and Documentation shall typically include the following items:
 - Assembly drawings.
 - Parts list and drawings with manufacturer's identification codes.
 - Accessories list and drawings with manufacturer's identification codes.
 - O&M schedules.
 - Maintenance guidelines including lapping instructions.
 - Troubleshooting guides.
- 12.01.02 The documents shall be submitted in the form of handy, hard bound books which can be easily handled and transported to site.

SL. No.	DOCUMENT TYPE					
1	Supply Document List					
2	Supply Program					
3	Data Sheets					
4	System Architecture Drawing					
5	Constructive equipment drawings					
6	Technical Specifications (catalogues, assembly and erection specifications)					
	Details of Panel and Installation					
	Erection /Installation Drawing					
	Equipment Layout Drawing in buildings / locations					
	Wiring Diagram of Panel					

SL. No.	DOCUMENT TYPE			
	Cable Route Layout Drawing			
	Power Distribution Scheme Diagram			
	Cable schedule			
7	Test certificates			
8	Compliance certificates			
9	Quality Control Plan			
10	Test procedures			
11	Start-up, Recommended and mandatory spare parts List			
12	Tools and tackle & consumable list			
13	Operation and maintenance manuals			
14	Final vesion of all drawings and documents furnished with the Bid.			

12.02.00 As-Built Drawings

Upon completion of the final acceptance of the System by Owner, all construction drawings shall be updated by Bidder to an as-built status to reflect the equipment and System configurations as actually installed.

13.00.00 TESTING

- 13.01.00 FACTORY ACCEPTANCE TEST (FAT)
- 13.01.01 Factory Acceptance Test procedure shall be prepared by Bidder alongwith Quality Asuurance Plan. The document shall be subject to Owner's approval.
- 13.01.02 All System equipment shall be tested in the factory prior to clearance for shipping. The FAT shall include individual equipment tests under fully assembled condition.
- 13.01.03 The FAT shall demonstrate adherence that the equipment meets the design standards and functional compliance. Duration of FAT at manufaturere's works shall be atleast two weeks.
- 13.01.04 One (1) month prior to the FAT, Bidder shall submit a test procedure to Owner for approval.
- 13.01.05 Owner's representative may, at Owner's sole discretion, attend the FAT. In this event, Bidder shall ensure all tests are carried out in the presence of Owner's personnel. If Owner declines to attend the FAT, Bidder shall carry out these tests and submit the results to Owner for review.

- 13.01.06 Factory Acceptance Tests (FATs) shall be documented with the results obtained and the success or failure of the test. The test results shall be submitted to Owner prior to clearance of the FAT and authority by Owner is given to ship.
- 13.02.00 COMMISSIONING
- 13.02.01 Bidder is responsible for delivering a fully functional equipment that meets all the requirements of the Specification and applicable standards.
- 13.02.02 The Commissioning processes will demonstrate the above to Owner, before handing over of the System.
- 13.02.03 System Commissioning shall comprise of a number of different activities culminating in the acceptance of the operational System by Owner. These activities are detailed in the following sections.
- 13.02.04 Bidder shall provide all necessary test equipment required to carry out the Commissioning and acceptance testing.
- 13.03.00 SITE ACCEPTANCE TEST (SAT)
- 13.03.01 Site acceptance test shall be performed by Bidder to verify the full operational functionality of the System.
- 13.03.02 Four weeks prior to the SAT Bidder shall submit a test procedure to Owner for approval.
- 13.03.03 All SAT tests shall be documented with the results obtained and their success or failure. These test results shall be submitted to Owner prior to clearance of the SAT and proceeding to the final performance tests.

14.00.00 MAINTENANCE REQUIREMENTS

- 14.01.00 MAINTENANCE PHILOSOPHY
- 14.01.01 Owner's maintenance philosophy is to undertake first line field repair by modular replacement. The module shall then be returned to the supplier, who shall either repair it or replace it during the warranty period.
- 14.01.02 The warranty period shall be a period a twelve (12) months, beginning when commissioning is reached.

15.00.00 SPARES, TOOLS, AND TEST EQUIPMENT

15.01.00 **SPARES**

15.01.01 Recommended Spares

- Supply of spare parts as necessary and recommended by Bidder for three
 (3) years of reliable, trouble-free operation and maintenance of the items supplied under this specification.
- b) List of such spares shall be supplied
- c) Bidder shall also assume the responsibility of supplying all required spare parts that the plant may need for Equipment supplied under this specification for ten (10) years from the date of contract.

15.01.02 **Mandatory (Contractual) Spares**

Not Applicable

15.01.03 Start-Up and Commissioning Spares

- Spares which may be required during tests, trial, commissioning and during guarantee run shall be arranged separately.
- b) Spares which will be used for this purpose shall be replaced by the Bidder within reasonable period of time.
- c) The cost of such spares shall be quoted separately. This may be ordered in part or on the whole.

15.02.00 GENERAL REQUIREMENTS OF SPARES

- 15.02.01 All spares required for operation/maintenance by the Owner shall be delivered in unused new condition.
- 15.02.02 Spares shall be interchangeable with the parts for which they are intended for replacement.
- 15.02.03 Bidder shall indicate the service expectancy period for equipment / parts under normal operating conditions after which replacement will be necessary.
- 15.02.04 Spares shall be properly packed for long term storage under the prevailing site condition and shall be clearly labelled for easy identification without uncrating. Any spare item having limited shelf life shall be clearly labelled for the expiry date beyond which it cannot be used.
- 15.02.05 Bidder shall inform the Owner, after having carried out the supply, if a component or part of an equipment will not be produced regularly any longer, specifying the new component or the material type which can be utilised in substitution.

- 15.02.06 Bidder's commitment in that case will be extended for a period of time which will not be lower than 10 years.
- 15.02.07 Any spare parts for the system used during the Warranty Period shall be replenished at the Bidder's expense.
- 15.02.08 Bidder shall provide ordering information to order consumable and spare parts as required. Information required is:
 - Description of item
 - Bidder 's reference number
 - Standard quantities recommended for start-up and normal operation
 - Spare Parts Interchangeability Records (SPIR) procedures.

15.03.00 **Tools & Tackle**

- 15.03.01 Bidder, in his proposal, shall indicate a list of all tools and tackle which may be required for erection, maintenance, overhaul and replacement of equipment / component to be supplied under this specification.
- 15.03.02 List of such items shall be supplied in the form of the enclosed format along with unit price.
- 15.03.03 Order for such tools & tackle may be placed simultaneously or otherwise at the option of Owner.
- 15.03.04 The cost of tools and tackle shall be quoted separately. Tools and tackle may be ordered in part or on the whole.

16.00.00 CLEANING, PROTECTION AND PAINTING

- 16.00.01 All equipment shall be shipped in properly cleaned condition. All the equipment shall be thoroughly cleaned to remove mill scales, rust etc. and properly painted with anti rust primer, where applicable
- 16.00.02 Some of the equipment and accessories, after arrival at site, are likely to be in storage for long periods before they are taken up for erection. Bidder may provide adequate protection for preventing damage due to corrosion, dust / dirt ingress, ageing etc.
- 16.00.03 Plugs shall be provided at cable entry holes/adapters to avoid entry of dust and foreign particles. Paper cap will not be acceptable.

17.00.00 IDENTIFICATION, MARKING, PACKING AND STORING

- 17.00.01 Each equipment shall be individually packed, tagged and protected.
- 17.00.02 Inscription on equipment (labels) shall be in English.

- 17.00.03 Packing must be such to protect all goods from possible impacts and foreign matters; moreover, it must limit the influence of both the climate and the environment, and be suitable for the kind of shipping provided for.
- 17.00.04 In packing the equipment and accessories, all necessary precautions will have to be taken to avoid any damage during transport and delivery.
- 17.00.05 All items supplied shall be packed for long term storage under the climatic conditions prevailing at the site. Small items shall be packed in sealed transparent plastic bags with desiccator packs as necessary. Each item shall be clearly marked with its description, purpose and plant designation code as applicable. When more than one item is packed in a single case a general description of the contents is to be shown on the outside of each case and a detailed list enclosed. All cases and other packages must be suitably marked and numbered for identification purposes.

18.00.00 SHIPMENT

- 18.00.01 Bidder shall be responsible for ensuring that all equipment are carefully and/or suitably packed for shipment, so that they arrive at site in good condition and remain so during storage at site. Before despatch, all exposed surface shall be protected by applying anti rust primer (two coats) and suitable cover shall be provided for the equipment to be supplied.
- 18.00.02 Bidder will be responsible for all damages due to improper preparation of the goods for shipment

19.00.00 QUALITY ASSURANCE PLAN

- 19.00.01 Equipment supplied under this specification shall have assured quality and workmanship.
- 19.00.02 Bidder shall complete the Quality Control Plan with the information pertaining to him, in particular with the reference of the documents to be used.
- 19.00.03 The QCP completed by Bidder shall be submitted to employer for approval. The QAP matrix furnished hereunder is for guidence only.
- 19.00.04 Bidder shall carry out all the checks, tests and inspections required to verify the compliance of the supply with the specification requirements at his own expenses. Applicable test will be as per the *Inspection and Test Plan (Refer Enclosure- A)*.
- 19.00.05 If not specified otherwise in Contract, Bidder shall notify Owner, 10 (ten) complete working days in advance, that the equipment is ready for inspection. This notification shall include the following information:
 - Bidder's Name/ address/ telephone and fax numbers
 - Job / Subject. Purchase order number:
 - Type / Serial No. / Tag No. / Model No.;

- List of parts to be tested;
- Type of inspection/test.....phase no.....of QCP no....rev.....;
- Owner attendance:
- · Place and date of the inspection;
- Quantity of available items;
- Expected duration;
- Bidder's reference person (name, phone, fax)

In case the inspection is performed without due notification, repetition of those tests may be requested at Bidder's expenses.

- 19.00.06 Owner and/or testing body's inspector shall have free access to Bidder's works both during manufacturing and tests & trials.
- 19.00.07 Bidder shall stand guarantee for perfect operation of the equipment during the period specified in the warranty.
- 19.00.08 Regardless of the results of the tests performed in Bidder's works, the final test will be performed at the plant, under actual operating conditions.

Bidder shall therefore undertake to replace, free of charge and within shortest time possible, all material which, in operating conditions, shall fail to comply with contractual requirements.

19.00.09 Bidder shall arrange the inspection and tests in easily accessible location and in properly illuminated shop to carry out the inspection in proper way.

Bidder shall, if called for, produce the necessary technical documents (drawings, specifications etc.) and copies of the codes or procedures applied to the execution of inspections and/or tests.

Owner reserves the right to reject the inspections and tests which fail to fulfil the above conditions.

- 19.00.10 Bidder shall perform inspections and tests in full compliance with industrial safety rules, to safeguard his own personnel as well as Owner's/ Consultant's Inspectors.
- 19.00.11 Bidder shall be responsible for the performance of the tests and shall:
 - a) provide qualified and specially skilled personnel
 - b) provide calibrated instruments with relevant certification
- 19.00.12 For Type or Special tests, Bidder shall indicate the location for carrying out the tests (Bidder's works or any recognized laboratory).

In case Owner is expected to give approval on the basis of certifications concerning similar previous supplies, Bidder shall submit for approval to Owner

the documentation demonstrating the compliance between the supply and the certified model.

- 19.00.13 If during the execution or at the end of the supply, any non-conformances are noted, Bidder shall implement and adequately document all the corrective actions necessary to restore the contractually required conditions. The documentation related to the corrective actions shall be included in the final certification report. If the non-conformance compromises the functional or safety feature of the equipment or specific interface elements, the supplier shall inform employer in advance in writing on the corrective actions he intend to implement. Empoyer has the right to reject (totally or partially) the proposed actions if considered inadequate or insufficient and Bidder may be asked for more adequate actions. The failure to communicate such non-conformances will be considered fraudulent intention.
- 19.00.14 During manufacture Bidder shall make available, the certificates concerning the inspections and tests performed. At the end, Bidder shall provide the certificates required for components for which a QCP has been developed. These certificates shall be kept in dossiers and shall comprise the documents concerning manufacturing, inspections and tests performed on the component and on its parts. The dossier shall be organised as follows:
 - Cover sheet containing:
 - Bidder's Name;
 - Job and order number;
 - Identification (model no. & serial no.) and short description of the supplied component;
 - Date and Bidder 's signature:
 - List of content;
 - QCP (refer Enclosure- A);
 - Certificates of materials, inspections and tests listed in the QCP;
 - Non-conformance report (if any);
 - Final Inspection Report. (Refer Enclosure- B)

All the pages shall be numbered.

- 19.00.15 The supply shall be considered completed if:
 - → the documents presented to Owner have been approved;
 - → the materials are in compliance with the specification; and related certificates are available and acceptable;
 - → the necessary qualification certificates are available and acceptable;
 - → the components have been inspected, examined and tested as required and related certificates are available and acceptable;
 - → the non-conformances have been documented and accepted by Owner;
 - → the components are clean, protected and identified;
 - → the necessary instructions for protection, handling or storage are available;

- → the Final Inspection Report has been submitted.
- 19.00.16 Bidder shall prepare a QCP for each component or group of similar components.
 - on sheets 1 and 2 of enclosure-A Bidder must indicate his identifying data and those concerning the order and the component for which the QCP is referred to:
 - → on sheet 3 of enclosure-A Bidder shall indicate the materials, parts and processes to be inspected, checked and tested and related tests and inspections to be executed.

Other types of forms may be accepted only if they contain the same information of Bidder.

- 19.00.17 The QCP prepared by Bidder shall be submitted to Owner for approval at least 15 days before the start of the related actives. Bidder shall be authorised to proceed if the QCP has been approved.
- 19.00.18 General requirements for inspection shall be as per the following guidelines.
 - a) Non Destructive Tests (NOT APPLICABLE)
 - b) Tests
 - The materials, manufacturing and finished components shall be inspected, controlled and tested as defined in this paragraph in compliance with standard codes and technical specification that shall be subject Owner's approval.
 - c) Visual Inspections
 - Check of the supply (quantities, accessories, markings dimensions / examinations in compliance with relevant drawings);

ENCLOSURE-A

BILL OF QUANTITIES OF WIRELESS SYSTEM

SL. No.	DESCRIPTION	TOTAL QUANTITY
01.	Radio Base Station with desktop microphone, loud speaker and power supply unit to operate from 240V,50Hz supply	8 No.
02.	Hand held Walkie Talkie sets with antenna, rechargeable battery and carrying case and single position charger	50 No
03.	Omni Directional Antenna	8 No
04.	RG-8 RF Coaxial cable	As required
05.	Administration, Diagnostics, Supervision Software (Including all hardware and software)	1 no.
06.	Any other item required for completion and functioning of the system as per specification	Lot

CS#ED



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

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: NKR0000113 RFQ Date: As per EPS

Due Date: AS PER EPS Project: TSGENCO KOTHAGUDEM 1X800MW

Item Description: Walkie Talkie 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.HD-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 Kothagudem site near Bhadrachalam Road in TELANGANA STATE. Road Permit, if applicable, will be issued by BHEL along with Despatch Clearance.

b) For Import supply – Port of discharge will be Chennai-Seaport and port of delivery will be ICD-Bangalore

Project Benefits:

Indigenous scope of supply:

- a) Project is Mega Power Project or Ultra Mega Power Project: Eligible for "NIL" Excise Duty. Necessary documents for availing Excise Duty exemption by suppliers will be furnished by BHEL.
- Physical Export project: Eligible for complete exemption of Excise Duty & Sales Tax. Necessary documents for availing such benefits will be furnished by BHEL to suppliers.
- 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 (For Air Consignment)/C.I.F.-Chennai (Including Packing, Forwarding, Handling, Ancillary charges like processing of Sight Draft/ Letter of Credit, negotiation of bank documents, Export declaration, Country of Origin etc): ______

S NO.	TERMS	BHEL ACCEPTABLE TERM	BIDDER'S CONFIRMATION	DEVIATION IF ANY
01	Validity	The offer will be valid for a period of 120 days from the date of technical bid opening.	AGREE	
02	Excise Duty & Cess	If applicable, indicate current rate of Excise Duty and maximum rate of Excise Duty (against proof of Excise Invoice).	APPLICABLE / NOT APPLICABLE	
		However, for calculation purpose and arriving at "Total Cost to BHEL" maximum rate of Excise Duty will be considered. In case Excise Duty remains firm throughout the contract, the same shall be specifically indicated. Otherwise, maximum Excise Duty will be considered for arriving at lowest bidder.	Present rate of Excise Duty with CESS	
		However, reimbursement of Excise Duty shall be at actuals against proof of Excise Invoice only. (Within contractual delivery).	Maximum rate of Excise Duty with CESS%	
		Physical export contract eligible for complete exemption of Excise duty against submission of necessary documents by BHEL like ARE 1/CT 1 form.		
03	Central Sales Tax (CST)	If applicable, indicate current rate of sales tax against form "C". For issue of original form "C", vendor has to furnish	APPLICABLE / NOT APPLICABLE Present Sales Tax rate against form "C"	
		"E1/E2" form. To enable vendor give E1/E2 form, photocopy of C form will be issued by BHEL.	······ %	
		Please confirm submission of "E1/E2 Sale form". For physical export project, Sales Tax is exempted against	CONFIRMED	
		necessary documents furnished by BHEL.		
04	Value Added Tax (VAT)	If applicable, indicate current rate of VAT.	APPLICABLE / NOT APPLICABLE	
		When VAT is applicable, BHEL ROD's/ Nodal Agency's Name, TIN No. and address to be indicated in invoice. (Note that two original invoice and one tax invoice should be submitted to BHEL).	VAT rate at present 	
05	Octroi	If applicable, indicate current rate of octroi.	AGREE Present Octroi rate%	
06	Freight Charges (for indigenous scope of supply)	Freight charges shall be to vendor's account. Quote lumpsum reasonable Freight charges separately in priced offer, plus service tax if any.	AGREED and quoted as lumpsum amount in price bid.	
		Vendor's offer will be evaluated on "Total cost basis" including freight charges.	Service Tax% (extra /inclusive in freight charges)	
		Vendor shall book the consignment through their approved Road carriers on "Freight pre-paid" and door delivery consignee copy attached basis. Freight charges to be claimed from BHEL along with POD (Proof of Delivery) on original L/R.		
07	Service Tax on E&C and Training Charges	If applicable, indicate current rate of Service Tax	APPLICABLE / NOT APPLICABLE	
		Service Tax Regn. No		

		Confirmation that Service Tax register is maintained.	CONFIRMED	
		Committation that Service Tax register is maintained.	CONTINUED	
08	Parting of license			
00	for imported raw	In case of Mega project, Ultra-Mega project and Physical	AGREE	
	materials	Export project where Custom Duty and Excise Duty are NIL	HONEE	
	materiais	and vendor is importing any raw materials / components		
		for the enquired item, same are eligible for Zero Customs		
		duty. As per EXIM policy, BHEL will part the import licence		
		with the vendors to obtain import licence by themselves	—CIF value	
		and custom clear the raw materials/ components by		
		availing zero customs duty. Hence, please furnish list of	Yes, benefit passed-on	
		raw materials / components to be imported by you with	to BHEL in the priced	
		Quantity and CIF value (for which BHEL has to share	quotation.	
		import licence). The benefit due to the above shall be		
		passed on to BHEL and confirmed in the quotation.		
			We confirm that there	
		If there are no imported raw materials/components, same	are no imported	
		shall be confirmed in the offer.	components.	
09	Delivery Period	Within 06 weeks from the date of issue of approved	AGREE	
09	Delivery Period	documents or manufacturing clearance by BHEL,	AGREE	
		whichever is later.		
10	Community /		weeks	
10	Guarantee/	36 months from the date of delivery of goods or 30	AGREE	
	Warranty	months from the date of commissioning of goods,		
		whichever is earlier.		
11	Inspection agency	Materials will be inspected by :	AGREE	
		BHEL		
		 Customer/Consultant/BHEL nominated Third 		
		Party Inspection Agency (TPIA)		
12	Terms of Payment	Refer Clause "F" of Instructions to Bidder for BHEL	AGREE	
	at the time of	standard Payment terms and loading factors applicable		
	material supply	for non-compliance against payment terms:		
	material supply	Tot non compliance against payment terms.		
		Indigenous Scope:		
		a)Supply with E&C		
		1 11 1		
		b)Supply with Supervision of E&C		
		c) Supply-only		
		Imported Scope <u>+</u>		
		Imported Scope : d)Supply with E&C		
		d)Supply with E&C	YES / NO	
		d)Supply with E&C e)Supply with Supervision of E&C		
		d)Supply with E&C e)Supply with Supervision of E&C f) Supply only	YES / NO CONFIRMED	
		e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If		
		e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per		
12	Durfam	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V.	CONFIRMED	
13	Performance Bank	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim		
13	Performance Bank Guarantee (PBG)	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic	CONFIRMED	
13		e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order.	CONFIRMED	
	Guarantee (PBG)	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders.	CONFIRMED	
13	Guarantee (PBG) Terms of Payment	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training:	CONFIRMED	
	Guarantee (PBG)	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion	CONFIRMED	
	Guarantee (PBG) Terms of Payment	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence.	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges:	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of final documents or 15 days from the date of submission of	CONFIRMED	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of final documents or 15 days from the date of submission of invoice, whichever is later. Separate invoice to be	CONFIRMED	
14	Guarantee (PBG) Terms of Payment not related to material supply	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of final documents or 15 days from the date of submission of invoice, whichever is later. Separate invoice to be submitted for Engineering & documentation charges.	AGREE	
	Guarantee (PBG) Terms of Payment not related to	e)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders. For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of final documents or 15 days from the date of submission of invoice, whichever is later. Separate invoice to be	CONFIRMED	

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ch	through your approved transporter (unless otherwise indicated in Despatch Instructions), only on receipt of Despatch Clearance from BHEL. Imported Scope: By Air/Sea through BHEL approved Consolidator/Freight Forwarder, only on receipt of Despatch Clearance from BHEL. Complete set of despatch desuments (original + 1	AGDEE	
ents	photocopy set) as per Purchase Order shall be forwarded to BHEL directly. Depending upon the project/customer demands, despatch documents may include one or more documents from the following: Commercial Invoice, Excise Invoice (if ED is applicable), Lorry Receipt (L/R), Packing List, Air Way Bill (AWB), Country of origin certificate, Warranty Certificate, Insurance Intimation letter, NIL Short Shipment Certificate, Original Performance Bank Guarantee (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.	AGREE	
	a particular project will be specified in the Purchase Order.		
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	
ty Tolerance	If applicable, indicate Quantity tolerance for each of the line item. For Impulse/seamless/ GI pipes one random length	CONFIRMED	Quantity Tolerance% Per Variety
	applicable for each variety of pipes.		
ion criteria dered item	Splitting of tendered quantity to MSE vendors (if any) is applicable. OR	AGREE	
	Tender consists of three projects(Bhadradri, Kothagudem and Suratgarh). Item will be evaluated, ranked and ordered on project-wise package basis for each project i.e. All the items for one project in the tender will be evaluated and procured as a SINGLE package. Hence each project (Bhadradri, Kothagudem and Suratgarh) will be evaluated separately and three separate PO will be issued.		
tment	Integrity commitment will be applicable in the tender process and execution of contracts as mentioned in clause "I" of Instructions to Bidders.	AGREE	
	Manuals y Tolerance ion criteria dered item	indicated in Despatch Instructions), only on receipt of Despatch Clearance from BHEL. Imported Scope: By Air/Sea through BHEL approved Consolidator/Freight Forwarder, only on receipt of Despatch Clearance from BHEL. Complete set of despatch documents (original + 1 photocopy set) as per Purchase Order shall be forwarded to BHEL directly. Depending upon the project/customer demands, despatch documents may include one or more documents from the following: Commercial Invoice, Excise Invoice (if ED is applicable), Lorry Receipt (L/R), Packing List, Air Way Bill (AWB), Country of origin certificate, Warranty Certificate, Insurance Intimation letter, NIL Short Shipment Certificate, Original Performance Bank Guarantee (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. The precise list of 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 emailed/faxed immediately to BHEL-EDN after despatch. 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. 4 Tapplicable, indicate Quantity tolerance for each of the line item: For Impulse/seamless/ GI pipes one random length applicable for each variety of pipes. Itemwise evaluation of tendered item. Spitting of tendered quantity to MSE vendors (if any) is applicable. OR Tender consists of three projects (Bhadradri, Kothagudem and Suratgarh). Item will be evaluated, ranked and ordered on project-wise package basis for each project lie.e. All the items for one project in the tender will be evaluated sep	indicated in Despatch Instructions), only on receipt of Despatch Clearance from BHEL. Imported Scope: By Air/Sea through BHEL approved Consolidator/Freight Forwarder, only on receipt of Despatch Clearance from BHEL. ch Complete set of despatch documents (original + 1 photocopy set) as per Purchase Order shall be forwarded to BHEL directly. Depending upon the project/customer demands, despatch documents may include one or more documents from the following: Commercial Invoice, Excise Invoice (if ED is applicable), Lorry Receipt (I/R), Packing List, Air Way Bill (AWB), Country of origin certificate, Warranty Certificate, Insurance Intimation letter, NIL Short Shipment Certificate, Original Performance Bank Guarantee (directly from issuing bank to BHEL), PDD (Proof of Delivery) on original I/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. The precise list of 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 emailed/faxed immediately to BHEL-EDN after despatch. 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. ### Jolerance If applicable, indicate Quantity tolerance for each of the line-teem. For Impulse/seamless/ GL pipes one random length applicable for each variety of pipes. Indicated item Splitcate Quantity tolerance for each of the line-teem. For Impulse/seamless/ GL pipes one random length applicable for each variety of pipes. In Tender consists of three projects(Bhadradri, Kothagudem and Suratgarh) . Item will be evaluated, ranked and ordered on project-wise package basis for each project ic. A

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).

NOTE: The above filled-in and signed-sealed document (in original) shall be furnished 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.



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

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: NKR0000113 RFQ Date: As per EPS

Due Date: AS PER EPS Project: TSGENCO Bhadradri TPS (4X270MW) Manuguru

Item Description: Walkie Talkie 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.HD-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 MANUGURU in TELANGANA STATE. Road Permit, if applicable, will be issued by BHEL along with Despatch Clearance.

b) For Import supply – Port of discharge will be Chennai-Seaport and port of delivery will be ICD-Bangalore

Project Benefits:

Indigenous scope of supply:

- a) Project is Mega Power Project or Ultra Mega Power Project: Eligible for "NIL" Excise Duty. Necessary documents for availing Excise Duty exemption by suppliers will be furnished by BHEL.
- b) Physical Export project: Eligible for complete exemption of Excise Duty & Sales Tax. Necessary documents for availing such benefits will be furnished by BHEL to suppliers.
- 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 (For Air Consignment)/C.I.F.-Chennai (Including Packing, Forwarding, Handling, Ancillary charges like processing of Sight Draft/ Letter of Credit, negotiation of bank documents, Export declaration, Country of Origin etc):

S NO.	TERMS	BHEL ACCEPTABLE TERM	BIDDER'S CONFIRMATION	DEVIATION IF ANY
01	Validity	The offer will be valid for a period of 120 days from the date of technical bid opening.	AGREE	
02	Excise Duty & Cess	If applicable, indicate current rate of Excise Duty and maximum rate of Excise Duty (against proof of Excise Invoice).	APPLICABLE / NOT APPLICABLE	
		However, for calculation purpose and arriving at "Total Cost to BHEL" maximum rate of Excise Duty will be considered. In case Excise Duty remains firm throughout the contract, the same shall be specifically indicated. Otherwise, maximum Excise Duty will be considered for arriving at lowest bidder.	Present rate of Excise Duty with CESS	
		However, reimbursement of Excise Duty shall be at actuals against proof of Excise Invoice only. (Within contractual delivery).	Maximum rate of Excise Duty with CESS%	
		Physical export contract eligible for complete exemption of Excise duty against submission of necessary documents by BHEL like ARE 1/CT-1 form.		
03	Central Sales Tax (CST)	If applicable, indicate current rate of sales tax against form "C". For issue of original form "C", vendor has to furnish "E1/E2" form. To enable vendor give E1/E2 form, photocopy of C form will be issued by BHEL.	APPLICABLE / NOT APPLICABLE Present Sales Tax rate against form "C"	
		Please confirm submission of "E1/E2 Sale form". For physical export project, Sales Tax is exempted against necessary documents furnished by BHEL.	CONFIRMED	
04	Value Added Tax (VAT)	If applicable, indicate current rate of VAT.	APPLICABLE / NOT APPLICABLE	
		When VAT is applicable, BHEL ROD's/ Nodal Agency's Name, TIN No. and address to be indicated in invoice. (Note that two original invoice and one tax invoice should be submitted to BHEL).	VAT rate at present 	
05	Octroi	If applicable, indicate current rate of octroi.	AGREE Present Octroi rate%	
06	Freight Charges (for indigenous scope of supply)	Freight charges shall be to vendor's account. Quote lumpsum reasonable Freight charges separately in priced offer, plus service tax if any.	AGREED and quoted as lumpsum amount in price bid.	
		Vendor's offer will be evaluated on "Total cost basis" including freight charges.	Service Tax% (extra /inclusive in freight charges)	
		Vendor shall book the consignment through their approved Road carriers on "Freight pre-paid" and door delivery consignee copy attached basis. Freight charges to be claimed from BHEL along with POD (Proof of Delivery) on original L/R.		
07	Service Tax on E&C and Training Charges	If applicable, indicate current rate of Service Tax	APPLICABLE / NOT APPLICABLE	
		Service Tax Regn. No Confirmation that Service Tax register is maintained.	CONFIRMED	

08	Parting of license for imported raw materials	In case of Mega project, Ultra Mega project and Physical Export project where Custom Duty and Excise Duty are NIL and vendor is importing any raw materials / components for the enquired item, same are eligible for Zero Customs duty. As per EXIM policy, BHEL will part the import licence with the vendors to obtain import licence by themselves and custom clear the raw materials/ components by availing zero customs duty. Hence, please furnish list of raw materials / components to be imported by you with Quantity and CIF value (for which BHEL has to share import licence). The benefit due to the above shall be passed on to BHEL and confirmed in the quotation. If there are no imported raw materials/components, same shall be confirmed in the offer.	AGREE CIF value	
09	Delivery Period	Within 06 weeks from the date of issue of approved documents or manufacturing clearance by BHEL, whichever is later.	AGREE weeks	
10	Guarantee/ Warranty	36 months from the date of delivery of goods or 30 months from the date of commissioning of goods, whichever is earlier.	AGREE	
11	Inspection agency	Materials will be inspected by : BHEL Customer/Consultant/BHEL nominated Third Party Inspection Agency (TPIA)	AGREE	
12	Terms of Payment at the time of material supply	Refer Clause "F" of Instructions to Bidder for BHEL standard Payment terms and loading factors applicable for non-compliance against payment terms: Indigenous Scope: a)Supply with E&C b)Supply with Supervision of E&C c) Supply only Imported Scope: d)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If	AGREE YES / NO CONFIRMED	
12	Dawfayyyaya Dawl	yes, confirm submission of relevant documents as per Annexure V. PBG will be applicable for a period of 36 months + claim	ACRE	
13	Performance Bank Guarantee (PBG)	period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause " G " of Instructions to Bidders.	AGREE	
14	Terms of Payment not related to material supply	For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete—set—of—documentation,—whichever—is later.Separate—invoice—shall—be—submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of final documents or 15 days from the date of submission of invoice,—whichever—is—later.—Separate—invoice—to—be submitted for Engineering & documentation charges.	AGREE	
15	Mode of despatch	Indigenous Scope: By Road on Door Delivery Consignee Copy attached basis through your approved transporter (unless otherwise indicated in Despatch Instructions), only on receipt of Despatch Clearance from BHEL.	AGREE	

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		Imported Scope:		
		By Air/Sea through BHEL approved Consolidator/Freight		
		Forwarder, only on receipt of Despatch Clearance from		
		BHEL.		
16	Despatch	Complete set of despatch documents (original + 1	AGREE	
	Documents	photocopy set) as per Purchase Order shall be forwarded		
		to BHEL directly.		
		Depending upon the project/customer demands,		
		despatch documents may include one or more documents		
		from the following:		
		Commercial Invoice, Excise Invoice (if ED is applicable),		
		Lorry Receipt (L/R), Packing List, Air Way Bill (AWB),		
		Country of origin certificate, Warranty Certificate,		
		Insurance Intimation letter, NIL Short Shipment		
		Certificate, Original Performance Bank Guarantee		
		(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.		
		The precise list of 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.		
17	O & M Manuals	As built Drawings, O & M Manuals and other approved	AGREE	
		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.		
18	Quantity Tolerance	If applicable, indicate Quantity tolerance for each of the	CONFIRMED	Quantity
		line item.		Tolerance
				% Per
		For Impulse/seamless/ GI pipes one random length		Variety
		applicable for each variety of pipes.		
19	Evaluation criteria	Itemwise evaluation of tendered item.	AGREE	
	for tendered item	Splitting of tendered quantity to MSE vendors (if any) is		
		applicable.		
		OR		
		Tender consists of three projects(Bhadradri, Kothagudem		
		and Suratgarh) . Item will be evaluated, ranked and		
		ordered on project-wise package basis for each project		
		i.e. All the items for one project in the tender will be		
		evaluated and procured as a SINGLE package. Hence each		
		project (Bhadradri, Kothagudem and Suratgarh) will be		
20	Intermite.	evaluated separately and three separate PO will be issued.	ACREE	
20	Integrity	Integrity commitment will be applicable in the tender	AGREE	
	Commitment	process and execution of contracts as mentioned in clause		
1	1	"I" of Instructions to Bidders.		

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-sealed document (in original) shall be furnished 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.



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

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: NKR0000113 RFQ Date: As per EPS

Due Date: AS PER EPS Project: RRVUNL Suratgarh Units 7&8 (2X660MW)

Item Description: Walkie Talkie 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.HD-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 **SURATGARH in RAJASTHAN STATE**. Road Permit, if applicable, will be issued by BHEL along with Despatch Clearance. **b) For Import supply –** Port of discharge will be Chennai-Seaport and port of delivery will be ICD-Bangalore

Project Benefits:

Indigenous scope of supply:

- a) Project is Deemed Export contract, Mega Power Project or Ultra Mega Power Project: Eligible for "NIL" Excise Duty. Necessary documents for availing Excise Duty exemption by suppliers will be furnished by BHEL.
- b) Physical Export project: Eligible for complete exemption of Excise Duty & Sales Tax. Necessary documents for availing such benefits will be furnished by BHEL to suppliers.
- 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 (For Air Consignment)/C.I.F.-Chennai (Including Packing, Forwarding, Handling, Ancillary charges like processing of Sight Draft/ Letter of Credit, negotiation of bank documents, Export declaration, Country of Origin etc):

S NO.	TERMS	BHEL ACCEPTABLE TERM	BIDDER'S CONFIRMATION	DEVIATION IF ANY
01	Validity	The offer will be valid for a period of 120 days from the date of technical bid opening.	AGREE	
02	Excise Duty & Cess	If applicable, indicate current rate of Excise Duty and maximum rate of Excise Duty (against proof of Excise Invoice).	APPLICABLE / NOT APPLICABLE	
		However, for calculation purpose and arriving at "Total Cost to BHEL" maximum rate of Excise Duty will be considered. In case Excise Duty remains firm throughout the contract, the same shall be specifically indicated. Otherwise, maximum Excise Duty will be considered for arriving at lowest bidder.	Present rate of Excise Duty with CESS%	
		However, reimbursement of Excise Duty shall be at actuals against proof of Excise Invoice only. (Within contractual delivery).	Maximum rate of Excise Duty with CESS%	
		Physical export contract eligible for complete exemption of Excise duty against submission of necessary documents by BHEL like ARE 1/CT 1 form.		
03	Central Sales Tax (CST)	If applicable, indicate current rate of sales tax against form "C". For issue of original form "C", vendor has to furnish "E1/E2" form. To enable vendor give E1/E2 form, photocopy of C form will be issued by BHEL.	APPLICABLE / NOT APPLICABLE Present Sales Tax rate against form "C"	
		Please confirm submission of "E1/E2 Sale form". For physical export project, Sales Tax is exempted against	CONFIRMED	
		necessary documents furnished by BHEL.		
04	Value Added Tax (VAT)	If applicable, indicate current rate of VAT. When VAT is applicable, BHEL ROD's/ Nodal Agency's	APPLICABLE / NOT APPLICABLE	
		Name, TIN No. and address to be indicated in invoice. (Note that two original invoice and one tax invoice should be submitted to BHEL).	VAT rate at present% NOTED	
05	Octroi	If applicable, indicate current rate of octroi.	AGREE Present Octroi rate%	
06	Freight Charges (for indigenous scope of supply)	Freight charges shall be to vendor's account. Quote lumpsum reasonable Freight charges separately in priced offer, plus service tax if any.	AGREED and quoted as lumpsum amount in price bid.	
		Vendor's offer will be evaluated on "Total cost basis" including freight charges.	Service Tax% (extra /inclusive in freight charges)	
		Vendor shall book the consignment through their approved Road carriers on "Freight pre-paid" and door delivery consignee copy attached basis. Freight charges to be claimed from BHEL along with POD (Proof of Delivery) on original L/R.		
07	Service Tax on E&C and Training Charges	If applicable, indicate current rate of Service Tax%	APPLICABLE / NOT APPLICABLE	
		Service Tax Regn. No Confirmation that Service Tax register is maintained.	CONFIRMED	

08	Parting of license for imported raw materials	In case of Mega project, Ultra Mega project and Physical Export project where Custom Duty and Excise Duty are NIL and vendor is importing any raw materials / components for the enquired item, same are eligible for Zero Customs duty. As per EXIM policy, BHEL will part the import licence with the vendors to obtain import licence by themselves and custom clear the raw materials/ components by availing zero customs duty. Hence, please furnish list of raw materials / components to be imported by you with Quantity and CIF value (for which BHEL has to share import licence). The benefit due to the above shall be passed on to BHEL and confirmed in the quotation. If there are no imported raw materials/components, same shall be confirmed in the offer.	AGREE —CIF value	
09	Delivery Period	Within 06 weeks from the date of issue of approved documents or manufacturing clearance by BHEL, whichever is later.	AGREE weeks	
10	Guarantee/ Warranty	36 months from the date of delivery of goods or 30 months from the date of commissioning of goods, whichever is earlier.	AGREE	
11	Inspection agency	Materials will be inspected by : BHEL Customer/Consultant/BHEL nominated Third Party Inspection Agency (TPIA)	AGREE	
12	Terms of Payment at the time of material supply	Refer Clause "F" of Instructions to Bidder for BHEL standard Payment terms and loading factors applicable for non-compliance against payment terms: Indigenous Scope: a)Supply with E&C b)Supply with Supervision of E&C c) Supply only Imported Scope: d)Supply with E&C e)Supply with Supervision of E&C f) Supply only Note: Kindly indicate if High Sea Sales will be operated. If yes, confirm submission of relevant documents as per Annexure V.	YES / NO CONFIRMED	
13	Performance Bank Guarantee (PBG)	PBG will be applicable for a period of 36 months + claim period of 6 months for a value equal to 10% of the basic value of the purchase order. Refer Clause "G" of Instructions to Bidders.	AGREE	
14	Terms of Payment not related to material supply	For Training: 100% will be paid in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of documentation, whichever is later.Separate invoice shall be submitted for Training charges along with documentary evidence. For Engineering & Documentation Charges: 100% will be paid in 45 days from the date of approval of final documents or 15 days from the date of submission of invoice, whichever is later. Separate invoice to be submitted for Engineering & documentation charges.	AGREE	
15	Mode of despatch	Indigenous Scope: By Road on Door Delivery Consignee Copy attached basis through your approved transporter (unless otherwise indicated in Despatch Instructions), only on receipt of Despatch Clearance from BHEL.	AGREE	

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		Imported Scope:		
		By Air/Sea through BHEL approved Consolidator/Freight		
		Forwarder, only on receipt of Despatch Clearance from		
		BHEL.		
16	Despatch	Complete set of despatch documents (original + 1	AGREE	
	Documents	photocopy set) as per Purchase Order shall be forwarded		
		to BHEL directly.		
		Depending upon the project/customer demands,		
		despatch documents may include one or more documents		
		from the following:		
		Commercial Invoice, Excise Invoice (if ED is applicable),		
		Lorry Receipt (L/R), Packing List, Air Way Bill (AWB),		
		Country of origin certificate, Warranty Certificate,		
		Insurance Intimation letter, NIL Short Shipment		
		Certificate, Original Performance Bank Guarantee		
		(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.		
		The precise list of 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.		
17	O & M Manuals	As built Drawings, O & M Manuals and other approved	AGREE	
		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.		
18	Quantity Tolerance	If applicable, indicate Quantity tolerance for each of the	CONFIRMED	Quantity
		line item.		Tolerance
				% Per
		For Impulse/seamless/ GI pipes one random length		Variety
		applicable for each variety of pipes.		
19	Evaluation criteria	Itemwise evaluation of tendered item.	AGREE	
	for tendered item	Splitting of tendered quantity to MSE vendors (if any) is		
		applicable.		
		OR		
		Tender consists of three projects(Bhadradri, Kothagudem		
		and Suratgarh) . Item will be evaluated, ranked and		
		ordered on project-wise package basis for each project		
		i.e. All the items for one project in the tender will be		
		evaluated and procured as a SINGLE package. Hence each		
		project (Bhadradri, Kothagudem and Suratgarh) will be		
20	Intermite.	evaluated separately and three separate PO will be issued.	ACREE	
20	Integrity	Integrity commitment will be applicable in the tender	AGREE	
	Commitment	process and execution of contracts as mentioned in clause		
1	1	"I" of Instructions to Bidders.		

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-sealed document (in original) shall be furnished 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.



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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.

<u>Definitions:</u> 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.

- a) '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.
- b) '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.
- d) '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:

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

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Applicable Conditions:

- 1. <u>Price Basis:</u> 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.
- 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. <u>Documentation:</u> 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

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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. <u>Transit Insurance:</u> 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 Phytosanitory / 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.



- 12. <u>Assignment of Rights & Obligations; Subcontracting:</u> 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. <u>Progress report:</u> 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. <u>Cancellation / Termination of contract:</u> 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. <u>Risk Purchase Clause</u>: 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.

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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. <u>Guarantee / Warranty:</u> 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. <u>Limitation of Liability</u>: 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.

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- 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 notices 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 Swas)

this contract.

31. <u>General Terms:</u> 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.

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32. <u>Fraud Prevention Policy</u>: 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.



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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". Pease 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

(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. Such PBG shall be valid for a period of 36 months + claim period of 6 months 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. PROVISONS 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. <u>Commitment by Bidder(s)/ Contractor(s):</u>

- 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	
DO6	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,	
027	GERIVIANT	EURU	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	DUBAL	
D46	OMAN	USD	MUSCAT	
D47	EGYPT	USD	CAIRO	
D48	TAIWAN	USD	TAIPEI	
D49	UKRAINE	USD	KIEV	
D50	CHINA	USD	SHANGHAI, SHENZHEN MANILA	
D51 D52	PHILIPINES	USD USD	KUALALUMPUR, PE NANG	
	MALAYSIA		·	
D53 D54	CYPRUS SOUTH AFRICA	USD	JOHANNESBERG, DURBAN	
D54	SLOVAKIA	EURO	BARTISLOVA	
D56	SAUDI ARABIA	SAR	RIYADH	
D57	TURKEY	EURO	ISTANBUL	
D57	THAILAND	USD	BANGKOK	
D59	BRAZIL	USD	SAO PAULO, RIO DE JANEIRO	
DJJ	DIVALIL	030	S. IS . MOES, MIS DESANTINO	

<u>ANNEXURE – II</u> 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.

ANNEXURE - IV

Electronic Funds Transfer (EFT) OR Paylink Direct Credit Form

	Please Fill up the form in CAPITAL L TYPE OF REQUEST(Tick one):	ETTERS only. CREAT	E	CHANGE		
	BHEL Vendor / Supplier Code: Company Name : Permanent Account Number(PAN): Address			1		
	[Cit. ::]DINICODE		Тотать		_ _
	City:	PINCODE		STATE		_
	Contact Person(s) Telephone No: Fax No: e-mail id:					
	Bank Name: Bank Address:			•]
4 5 6	Bank Telephone No: Bank Account No: Account Type: Savings/Cash Credit 9 Digit Code Number of Bank and bra appearing on MICR cheque issued b Bank IFSC Code(applicable for NEF Bank IFSC code(applicable for RTGS	y Bank T)			(Indian Financial S	System Code;
A 3 0	I hereby certify that the particulars given that I, as a representative for the about Bangalore to electronically deposit part of the transaction is delayed or not efficient of the transaction in the transaction of the transaction in the transaction of the transaction of the transaction of the transaction of the cover expected of me as a participant under the transaction of the transaction	ove named Com ayments to the of fected at all for transfering Ban til BHEL, EDN, ing letter and ag	pany, hereby designated ba reasons of inc k responsible. Bangalore rec	authorise BHE ink account. complete or inc eives written n	EL, EDN, correct otification	
	Date:					
	Authorised Signatory: Designation:			Telephone No	o. with STD Code	
	Company Seal					
	We certify thatwe confirm that the bank details give		unt No		with us and	
	Date: Place:		·	(Signature	_
	Please return completed form along Bharath Heavy Electricals Ltd, Attn: Electronics Division, Mysore Road, BANGALORE - 560 026			que or photoc	opy thereof to:	

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<u>ANNEXURE - V</u> 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:
То
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 at2 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 Nodated
valued at Rs ⁴ (Rupees)/FC(in words) for
⁵ (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.

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
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
Unless a demand or claim under this guarantee is made on us in writing on or before the ⁷ we shall be discharged from all liabilities under this guarantee thereafter.
We,

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment

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

 $^{10}\,\mathrm{DATE}$ 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
having its registered office at
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:
 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: RsLacs.
The above investment of Rs Lacs in within permissible limit of RsMicro / 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 prinicipal is an individual, a partnership, an
association of persons, a private or public company, that carries our 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:

- 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.
- 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.
- 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.
- 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.
- 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 <u>Foreign nationality</u> 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 <u>Indian Nationality</u> 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.1	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).

GUIDELINES FOR QUOTING IN E-PROCUREMENT SYSTEM

- 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. Vendor is requested to fill up the "Global Discount" column of the e-tender price bid if any discount to be offered for consideration of price evaluation. Discount mentioned anywhere else will deemed to be invalid.
- 3. 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.
- 4. Final comparative statement will subject to evaluation considering the other price impacts like loading factor and project benefits (refer attached special commercial conditions for project benefit).
- 5. Tender consists of three projects(Bhadradri, Kothagudem and Suratgarh). Item will be evaluated, ranked and ordered on project-wise package basis for each project i.e. All the items for one project in the tender will be evaluated and procured as a SINGLE package. Hence each project (Bhadradri, Kothagudem and Suratgarh) will be evaluated separately and three separate PO will be issued.