	REQUEST 1	FOR QUOTATIO	ON				
B	Electronics Division	BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA		UMBER: BOS0005 DATE : AR.2017	Due Date 10.MAR.2017 Time: 13:00 H VENUE : NEW ENGG. BLDG		
	PURCHASE FILE COPY		Phone : Fax : E-mail:	(for all con- e Executive : 26989637 ankitareja@bh	Ankita	Reja	
S1 No.	BIDS SHALL BE SUBMITTED THROUGH E-PROCURE	MENT PORTAL https://	//bheleps.buy	junction.in Delivery	aty	Delivery Date	
1	PS0679064885 Supply of 2.8MVA Transformer As per BHEL spec PS-439-1071 Test Certificate	8	NO		4		
	PS0679064893 Spares for 2.8MVA Transformer As per BHEL spec PS-439-1071 Test Certificate	2	ST		1		
3	PS0679064915 Type test charges for Transformer As per BHEL specs PS-439-1071	2	AU		1		
4	PS0679064974 I&C support for 2.8MVA ONAF Transform As per BHEL spec PS-439-1071	ler 8	AU		4		

Please note that the tender will be opened in the presence of the bidders or his authorised representatives (maximum two per organisation) who choose to be present with authorisation letters. Refer annexure for the terms and conditions.

Please specify Terms of delivery, Excise duty, sales tax, Ex-BHEL, Ex-works surcharge, Insurance,P&F, Freight and other taxes very clearly. For evaluation,exchange rate(TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid incase of two part bid) shall be considered. The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected.The list of banned firms is available on BHEL web site www.bhel.com

i). This is only RFQ not an order.

Total Number of Items -

ii). In all correspondence quote RFQ No. & due date.

iii). In Quotation BHEL material code / RFQ Sl. No. should be mentioned clearly.

4

v). Quotation should remain valid for a minimum peiod of 90 days from due date. vi). In case of non-receipt of Quotation or regret letter for 3 consecutive RFQs you are liable to be removed from our vendors list.

vii). All Prices should be written in words and numbers.

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

For and On behalf of BHEL.

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	बीएच ई एल	PURCHASE SPECIFICATION FO	OR 3-PHASE,	PS 439-1071				
	BHHE	3-WINDING, 2800 KVA ONAF TRANSFO SPV POWER PLANT AT MEJIA & CHH	RMER FOR 2X10MWp	REV. No. 01				
	A4-10	SPV POWER PLANT AT MEJIA & GHH	ARRAN, WESEDGL	PAGE 1 OF 19				
any.								
nited.		Technical specificat	tion of					
the d		1						
L ectrica	Outdoo	r, ONAN / ONAF type, 2500/2800 kV	A. 3-winding, 33 kV / 38	30-380 V				
vy Ele		.,,,,,,,	, o					
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3hara Iental	Transformer for							
ty of E								
ropert way o	2 x 10MW (AC) Solar Photovoltaic Grid-connected Power plant							
ANU the proj								
ent is ectly i	at Mejia & Chharrah sites (for WBSEDCL)							
KLGHT ocument is r indirectly								
er X this do ctly or								
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		Prepared	Issued	Date				
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Bļļ	 PURCHASE SPECIFICATION FOR 3-PHASE, 3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X10 SPV POWER PLANT AT MEJIA & CHHARRAH, WBSE 		PS 439-1071
A4-1			REV. No. 01
4 0 IN	RODUCTION		PAGE 2 OF
This t phase voltag distrik comb specif	chnical specification provides specifications for outdoor, oil- 3-winding transformer to step up the LV voltage, which is in to 33kV HV level. These transformers are placed at different ated manner. The HV outputs of all the transformers are coll red to achieve the 10MWp output for the power plant. This cations, supply conditions, erection and commissioning and pose of items Outdoor, Oil-immersion type, ONAN/ONAF, 3-phase, 3- winding, Inverter Duty Transformer with two identical LV windings and one HV winding - Rating minimum 2500	nverted fr t locations lected at is docume	rom solar gener s of the power p a common locat ent details the t issioning require CHHARR
2.2	H Creme	MEJIA	CHHARR
2.2			Qty Spares Q
2.2		Spares Q	
2.2	1 HV Bushing complete with metal parts and gaskets	3 Nos	3 Nos
2.2	 HV Bushing complete with metal parts and gaskets LV Bushing complete with metal parts and gaskets 	-	3 Nos 3 Nos 1 set

	71	3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X1 SPV POWER PLANT AT MEJIA & CHHARRAH, WBS		PS 43 REV.	9-1071 No. 01
A4-1	1				3 OF 19
	4	Pressure Relief Device with alarm/ trip contacts	1 No	-	No
	5	Winding temperature indicator with alarm and trip	1 No		No
		contacts	1110		
	6	Oil temperature indicator with alarm and trip	1 No	1	No
		contacts	1110		
	7	Buchholz Relay (complete) with alarm and trip	1 No	1	No
		contact			
	8	Magnetic Oil Level Gauge (MOG)	1 No	1	No
	9	Set of Gaskets	1 set		set
		(Each set shall represent complete quantity of			
		different types of gaskets used in one transformer.			
		Total list of gaskets shall be indicated by vendor			
		during detailed engineering)			
	Notes				
	a) V	endor shall provide a complete list of spares showing	g item-wis	e unit pr	ice, quant
	aı	nd total price.			
		HEL reserves the right in selection and inclusion of t	he spares	in the fi	nal scope
		ipply.			
	#	Type test		Mejia	antity Chharra
	1	Temperature rise test	1	L no	1 no
		(to be conducted for 2500 kVA ONAN capacity an	d 2800		
		kVA ONAF capacity)			
	Notes				
		• Offers not including type test are liable for rejection.			
		Vendor shall submit the procedure for the tests and	d provide	details o	n where t
		sts will be conducted, as part of the Technical bid.			

PAG	39-1071
PAG	. No. 01
2.4 Installation and commissioning support for the transformers at site:	GE 4 OF 19
	8 AU
 BHEL scope of activities at site for installation and commissioning: Movement and positioning of transformers on their respective foundations. BHEL shall arrange all necessary labour, machinery and tools. Erection / assembly of transformer fittings and accessories. BHEL shall arrange all necessary labour, machinery and tools. Laying of LV/HV cables, erection of HV termination kits and cable terminations at the LV/HV cable boxes. BHEL shall arrange all necessary labour. 	(4AU fo Mejia and 4 AU fo Chharrah) (1 AU means activity unit)

	बीएच ई एन मिन्दि	त]	PURCHASE SPECIFICATION FOR 3-PHASE, 3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X10MW(AC) SPV POWER PLANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-1071
	A4-11		OF V FOVER FLANT AT WEJIA & UNDARRAN, WDJEDUL	REV. No. 01
	7 1 1 1			PAGE 5 OF 19
	2.6		cuments to be submitted with technical offer:	
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 anyway detrimental to the interest of the company.	2.6.1	Foll (1) (2) (i) (ii)	Inverte to be submitted with technical other: Iowing documents shall be submitted to BHEL along with technical Filled in values/details wherever the same is asked for in BHEL tec Vendor shall submit signed copy on each sheet of BHEL specificar otherwise the deviation shall be pointed out. Values are to applicable. Technical data to be submitted: Overall General Arrangement (plan, elevation, end view) with over of accessories. Technical datasheets of transformer Technical datasheets of transformer with the above details are liable to be rejected.	chnical specifications tion as a confirmation – be filled in wherever

_//			/A ONAF TRANSFORMER FOR 2X10MW(AC) ANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-1071 REV. No. 01	
A4-1			t	PAGE 6 OF 19	
3.0 To	<u>echnical</u>	l specification			
#	Techn	nical parameter	BHEL specification		
1	Trans	former type	Outdoor, oil-immersion type ONAN/ONA forced air cooling	F type, Inverter Dut	
2	IP clas	SS	Transformer, including the cable box and marshalling box shall be of IP55.		
3	Applic	cation	Grid-connected solar photovoltaic power plant.		
4	Capacity for Natural cooling rating Forced cooling		2500 KVA (minimum) 2800 KVA		
5	No. of phases		3		
6	Frequ	ency	50 Hz, +/- 3%		
7	HV wi	inding	One 3-phase winding with Delta connection	n. HV voltage: 33kV	
8	LV wi	ndings	Two independent 3-phase windings as defi	ned in Cl. 2.1	
			Each winding shall have an identical and eq shall be rated at 50% of overall transformer		
			Design shall be such that transforme performance for both the LV windings. Eve is not fed from solar generation side, pe (operational) LV winding shall remain unaff	n when one LV windir rformance of the othe	
	Wind	ing material	(i) Electrolytic grade copper for both HV ar	nd LV windings	
9(i)					
9(i) (ii)	Curre	nt density	(ii) Maximum 3.5 Amperes / mm ²		
• •	Windi	ing Insulation	Class A		
(ii)	Windi Neutr	ing Insulation ral on LV side		nections (only durin	
(ii) 10	Windi Neutr	ing Insulation	Class A Neutral terminals of both the windings separately to facilitate earthing com maintenance). During normal operation, th	nections (only durin	
(ii) 10 11	Windi Neutr Vecto Rated	ing Insulation ral on LV side	Class A Neutral terminals of both the windings separately to facilitate earthing com maintenance). During normal operation, th connection to the neutral.	nections (only durin	

	बी एच ई एल मिन्नामा		3-WINDING, 2800 P	ASE SPECIFICATION FOR 3-PHASE, (VA ONAF TRANSFORMER FOR 2X10MW(AC) LANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-1071
-	A4-1	1		·	REV. No. 01 PAGE 7 OF 19
	15		nination V/Orientation	Air insulated cable box with disconnectin and LV sides. Cable box / Cable box / 180°.	
It must not be used directly or indirectly in anyway detrimental to the interest of the company.	16	Cable	e entry on HV side	 Bottom entry of cables. Cable size: 1 run of 3Cx300 mm², conductor, armoured, XLPE insulation, 7098 Cable and termination kits are in BHEL's Cable glands, lugs and SS hardware for bus-bar shall be in vendor's scope. Ve on the bottom-side gland plate of HV ca Cable glands shall be nickel plated compression type of reputed make. Ca to the vendor during detailed engineerir Cables shall enter the cable box str connected to the bus bars. After entr shall not undergo any bends or turns. 	PVC sheath as per IS scope connecting cable on HT endor shall provide hole able box for cable entry. brass glands of double ble OD will be intimated ag. raight upwards and ge
ווותאו וות הם משפת מוומרות הי ווימווררות ווי מיוח ייים	17	Cable	e entry on LV side	 Three wire system. Bottom entry of cables Cable size: 4 runs per phase, 1Cx630 mr unarmoured, XLPE insulation, PVC sheat Cables shall be in BHEL scope. Cable glands, lugs and SS hardware for o bar shall be in vendor's scope. Vendo the bottom-side gland plate of cable glands. Cable glands shall be nickel plated compression type of reputed make. Ca to the vendor during detailed engineerir Cables shall enter the cable box str connected to the bus bars. After entr shall not undergo any bends or turns. 	h as per IS: 7098. connecting cable on bus- r shall provide holes on box for placement of brass glands of double ble OD will be intimated ng. raight upwards and get
	18	Тарр	ing on HV winding	Off circuit tap changer (OCTC) switch with +2.5%, 0, -2.5%, -5%.	
	19	Load	ing Capability	PADLOCK Locking provision with LOCK to Pad-lock. Transformer shall be capable of being loc IS: 6600 / IEC 60076-7.	
1	20	Amb	ient temperature	Max 50°C	

	बी एग इ छ 11 A4-1	[]	3-WINDING, 2800 KV	SE SPECIFICATION FOR 3-PHASE, /A ONAF TRANSFORMER FOR 2X10MW(AC) ANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-1071 REV. No. 01
Ī					PAGE 8 OF 19
	21	Tem	perature rise	For top oil: Maximum 50°C by thermometer For winding: Max. 55°C by resistance meth Both rises shall be over an ambient temper	od.
I ne information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	22	Flux	density	irrespective of tap position. Not to exceed 1.9 Wb/m ² at any tap position variation from voltage corresponding to the also withstand following over-fluxing conde voltage and frequency fluctuations: a) 110% for continuous rating b) 125% for at least one minute c) 140% for at least five seconds Vendor shall furnish over-fluxing character detailed engineering.	e tap. Transformer shall itions due to combined
the	23	AirC			
oerty of ⊎narat r ay detrimental to	23		learances nonics	As per CBIP Shall be designed to suppress harmonics e	specially 3rd & 5th.
detrim	25	Noise	e level	As per NEMA TR-1 standard	
ie prope anyway	26	High	est system voltage	LV side: 1.1kV HV side: 36 kV	
indirectly in any	27		ation Class (Winding oushing)	As per relevant IS / IEC standard LV side winding and bushing insulation clas 3.6kV	ss shall be of at least
irmation on this do be used directly or	28	Rate with dura	ation levels d Lightning Impulse stand voltage / Short tion power frequency stand voltage	As per IEC 60137 LV side: kVp / 3 kV rms HV side: 170kVp / 77kV rms	
Jot t	29	Paint		RAL 7032 Pebble grey	
ust i	30		tructional features	As per clause 5.0 of this specification	
It m	31 32	Fittir Prov	ngs and accessories ision of shield	As per clause 6.0 of this specification Shield winding shall be provided between LV winding must be capable of handling with voltage gradient as per applicable sta Also shield winding shall be taken out f connection with 2 nos. shield bushings an down along with support insulator from t the bottom of the tank for independent g shall be rated for 3.6kV.	non- sinusoidal voltag ndards. rom tank with separat d same shall be brough cank & copper flat up t
	33	at 7	loss at principal tap 75°C at rated current frequency	(i) Maximum value as per CBIP(ii) Vendor to indicate value considering fu	ll load efficiency
	34		load loss at rated ge and frequency	Vendor to indicate value (%)	

B ;; 		3-WINDING, 2800 KV	SE SPECIFICATION FOR 3-PHASE, A ONAF TRANSFORMER FOR 2X10MW(A) ANT AT MEJIA & CHHARRAH, WBSEDCL	REV. No. 01
35	Effici	ency at 75ºC at UPF	(i) Minimum 98.9% at full load (ii)Vendor to indicate value Efficiencies at 75% and 50% loads to indicated by vendor.	PAGE 9 OF 1 (i) Confirm YE (ii) be
36	and	mum Efficiency (%) load at which it rs (kVA)	Vendor to indicate value	
37	deg C		 (i) < 2 % for UPF (ii)For 0.8 PF lagging, to be indicated vendor. 	(i) Confirm YE d by (ii)
38		all dimension in mm th x Breadth x Height	This shall be provided by vendor	
39	Oil qu	uantity (in Litres)	 (i) Quantity should be less than 2000 Lit (ii)Actual oil quantity to be indicated vendor. 	• •
40	Weig (kg)	ht of transformer	This shall be provided by vendor.	
Joi iv) B v) D (Part vi) N vii) G viii) C - (Part	nts are ushings imensic I to VII ew Insu as and urrent I to IV)	Ilating oil for transform oil actuated relays : transformers:	ds. 1000 volts: IS: 2099 former bushings. : IS: 3347 hers & switchgears: IS: 335, IEC IS: 3637 IS: 2705/ IE	EC 185
x) Co xi) De xii) Cl m xiii) N xiv) E xv) S xvi) I xvi) I xvii) (Trans	de of pr gree o assifica achiner Aethod lectric l becifica nsulatic CBIP pu former	f protection: ation of insulating mate ry relation to their stat of high voltage testing Power connectors. : tion of oil treatment p on co-ordination: blication no 295: c, accessories, etc., mee	ofing of electrical equipment: IS 3202 IS:13947 erials for electrical: IS: 1271 ility in service. :: IS: 2071 IS: 5561 lant: IS: 6043 IS 2165-1	al on transformer hich ensures an

्बी एप ड मिर्मू A4-11	//	3-WINDING, 2800 I	ASE SPECIFICATION FOR 3-PHASE, (VA ONAF TRANSFORMER FOR 2X10MW(AC) LANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-1071 REV. No. 01		
				PAGE 10 OF 19		
5.0 Co	nstruct	tional features and de	etails of transformer components			
5.0		verning Standard	IS: 2026 and IS: 3639 or equivalent internation	onal standard.		
5.1 Ta	nk					
5.1.1	The t	transformer tank an	d cover shall be fabricated from high grade l	ow carbon plate steel of		
I			and cover shall be of welded construction	on and there should be		
- 4 - 2		ision for lifting by cra		al all har and shad a sub-		
5.1.2		• •	s) with welded flange(s) and bolted cover(s) on hole(s) shall be sufficient size to afford e	•		
		of the bushings, ter				
5.1.3	The clear oil a coats	exterior of tank and ned and have a primi and weather-resis s. The final coat shal	d other steel surfaces exposed to the wearing coat of zinc chromate applied. The secontant nature, preferably of distinct colour for the secont of a glossy, oil and weather resistant nor	nd coat shall be of an rom the prime and finish		
5.1.4	shad		shall be cleaned by sand blasting and painte	d with two costs of hest		
5.1.4		tant and oil insolubl				
5.1.5						
	the tank shall be fitted with suitable oil-tight gaskets that shall give satisfactory service					
			nditions for complete life of the transfor	mer, if not opened for		
F 1 C		itenance at site.	adiators, conservator, bushings, cooling fans	and other fittings shall		
5.1.6		-	d the following conditions without permane			
	(i) F	-ull vacuum of 760 r	nm of Hg, for filling with oil by vacuum. Inte with oil as at operating level.			
	r (ii) R	The transformer shap preservation system	II have conservator tank of adequate capa and volumetric expansion of total transform	ner oil. The conservator		
			osition so that it can be removed for cleaning I be of single compartment type. The top of			
	Ċ	connected to the at	mosphere through indicating type cobalt fr e). Silica gel shall be isolated from atmospher	ee silica gel breather (in		
			be suitably sloped so that it does not retain			
	()		l be cork, neoprene or approved equivalent.			

	बीएच ई 841	3-WINDING, 2800	IASE SPECIFICATION FOR 3-PHASE, KVA ONAF TRANSFORMER FOR 2X10MW(AC) PLANT AT MEJIA & CHHARRAH, WBSEDCL REV. No. 01	
	A4-11		PAGE 11 OF 19	
	5.2 Co			
	5.2.1	he magnetic circuit s	shall be of core type. The core shall be constructed from er grain oriented silicon steel laminations (CRGOS) equivalent to	
	5.2.2		e of the core to clamp plates shall be such that it withstands a vo nute in air.	ltag
any.	5.2.3	· · ·	I be provided to enable the core & windings to be lifted.	
The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	5.3 W i 5.3.1 5.3.2 5.3.3	Vindings shall be of el Vindings shall have un	lectrolytic grade copper free from scales and burrs. niform insulation. ranged as to preserve the magnetic balance of the transforme	
ty of Bharat He detrimental to t	5.3.4	Il voltage ratios. The completed core ar mpregnated with oil aft	nd coil assembly shall be dried in vacuum and shall be immedi ter the drying process to ensure elimination of air and moisture w	iate
per ay (he insulation.		
the prop anywa	5.3.5	Vindings shall be mad	le in dust proof and conditioned atmosphere.	
n on this document is I directly or indirectly	5.4 Int 5.4.1		amping arrangements of core and coil shall be securely earthed in connection to the tank.	nsic
n on I dire	<u>5.5 Bu</u>	-		
The information It must not be used	5.5.1	Bushings rated for 400A hall be supplied with to Bushings below 52kV sh No arcing horns to be pu	gned and tested to comply with the applicable IS/IEC stands A and above shall have non-ferrous flanges and hardware. Bush erminal connector clamp suitable for connecting the cables. hall be be oil communicating type with porcelain insulator. rovided on the bushings. I be silver/tin plated. LV bushing insulation class shall be at l	hing
	5.6 Ca	es boxes and disconnec	cting chambers	
	5.6.1	ixed to suit BHEL specifi		
	5.6.2	nd Cable box supports.		
	5.6.3		be provided with necessary LV bushings, TINNED BUS-BARS , for making cable terminations.	wit
	5.6.4	IV termination arrange	ment shall be provided with necessary HV bushings and TINNED	BUS

A4-11		PURCHASE SPECIFICATION FOR 3-PHASE, 3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X10MW(AC) SPV POWER PLANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-1071 REV. No. 01 PAGE 12 OF 19
5.6.5		e boxes shall be provided with suitable gaskets to ensure the split interest (IP55). Cable boxes / disconnecting chambers shall be provided by the provided boxes / disconnecting chambers shall be provided by the provided boxes / disconnecting chambers shall be provided by the p	pecified protection cla
		ngements to prevent entry of rain water into the same.	
5.6.6	(1) (2) (3)	onnecting chambers: Disconnecting chambers shall be provided to enable the trans without unsealing the cables or draining oil from the main tank. Disconnecting chamber shall be air insulated and complete removable flexible connectors / links and removable covers. Phase-to-phase and Phase-to-ground clearances within the chan enable either the transformer or cable to be subject separately to	with seal-off bushing
5 7 N -	4 1		
5.7 Ne		bushings The neutrals of the star-connected LV windings shall be brought	out to separate bushi
5.7.1	(2)	terminals. The neutral bushings shall be provided on the tank at such a connecting earth conductor down to the ground level.	·
5.8 M 5.8.1	(3)	Tank-mounted pin-type support insulators shall be provided for earthing bar of specified section, along its run from the neutral bus lling box shalling box shall be tank mounted, outdoor and weath	shing to ground level.
5.8.1	(3) arshal Mar (pro havi ther with with with	earthing bar of specified section, along its run from the neutral bus lling box shalling box shall be tank mounted, outdoor and weath tection class IP55), sheet-steel (2mm thick minimum) enclosu ing padlocking facility and painted. Marshalling box shall hav mostatically controlled space heaters. All doors, covers and a neoprene gaskets. Bottom shall be at least 450 mm above flo a gland plate and cable glands as required. Top surface shall le er falling on the box.	er/vermin/dust proo ure, with hinged doo e proper lighting and plates shall be fitted por level and provided be sloped to drain of
5.8.1	(3) arshal Mar (pro havi ther with with with wate It sh mars	lling box shalling box shall be tank mounted, outdoor and weath tection class IP55), sheet-steel (2mm thick minimum) enclose ing padlocking facility and painted. Marshalling box shall hav mostatically controlled space heaters. All doors, covers and a neoprene gaskets. Bottom shall be at least 450 mm above floor gland plate and cable glands as required. Top surface shall least falling on the box. The falling box and all the accessory devices of transformer by	er/vermin/dust proo ure, with hinged doo e proper lighting and plates shall be fitted bor level and provided be sloped to drain of n cabling between the either PVC insulated
	(3) Arshal Mar (pro havi ther with with wate It sh mars unar The cont	lling box shalling box shall be tank mounted, outdoor and weath tection class IP55), sheet-steel (2mm thick minimum) enclose ing padlocking facility and painted. Marshalling box shall hav mostatically controlled space heaters. All doors, covers and a neoprene gaskets. Bottom shall be at least 450 mm above floor gland plate and cable glands as required. Top surface shall least falling on the box. The falling box and all the accessory devices of transformer by rmoured cables routed through Gl conduit (or) PVC insulated, arm cooling fans shall be controlled based on the oil temperature in trol arrangement for auto-switching (ON/OFF) of cooling fans shall	er/vermin/dust proo ure, with hinged doo e proper lighting and plates shall be fitted be sloped to drain of n cabling between the either PVC insulated oured cables. n transformer. Suitable Il be provided.
5.8.1	(3) Arshal Mar (pro havi ther with with wate It sh mars unar The cont Nece cabl cabl	lling box shalling box shall be tank mounted, outdoor and weath tection class IP55), sheet-steel (2mm thick minimum) enclose ing padlocking facility and painted. Marshalling box shall hav mostatically controlled space heaters. All doors, covers and a neoprene gaskets. Bottom shall be at least 450 mm above floor gland plate and cable glands as required. Top surface shall be r falling on the box. The falling box and all the accessory devices of transformer by moured cables routed through GI conduit (or) PVC insulated, arm cooling fans shall be controlled based on the oil temperature in	er/vermin/dust proo ure, with hinged doo e proper lighting and plates shall be fitted be sloped to drain of n cabling between the either PVC insulated oured cables. n transformer. Suitable Il be provided. the above mentioned ote panels. Additiona

A4-11 Rev. No. 01 5.9 Transformer oil PAGE 13 OF 19 5.9.1 Transformer Oil shall conform to the requirements of IEC: 60296. Transformer shall be supplied complete with transformer oil. No inhibitors shall be used the oil. Oil test report shall be submitted. 5.9.2 10% extra oil, in non-returnable sealed containers, shall be sent along with matorsignment to avoid any shortage of oil at the time of topping up of oil at the site. The insulating oil for the transformers shall conform to the requirement of relevant standards. No inhibitors shall be used in the oil. Quantity shall as required for full capacity. The transformer oil shall be supplied in non- returnable containers/drums. 10% extra to be supplied in separate drums suitably labelled. 5.9.3 The oil supplied with transformers shall be new and previously unused and must conform following while tested at supplier's premises and shall have following parameters. Si. No. Parameter Acceptable value Applicability 1. BDV 60 kV (min) Applicability 2. Moisture 20 ppm (max.) Oil supplied in drums. 5.10 Valves Sampling & drain valves should have zero leakage rate. 5.11.1 Gasket shall be fitted with weather proof, hot oil resistant, rubberized cork gasket. 5.11.2 If gasket is compressible, metallic stops shall be provided to prevent over compression	5.9 Transformer oil 5.9.1 Transformer Oil shall conform to the requirements of IEC: 60296. Transformers shall be supplied complete with transformer oil. No inhibitors shall be use the oil. Oil test report shall be submitted. 5.9.2 10% extra oil, in non-returnable sealed containers, shall be sent along with m consignment to avoid any shortage of oil at the time of topping up of oil at the site. The insulating oil for the transformers shall conform to the requirement of releve standards. No inhibitors shall be used in the oil. Quantity shall as required for capacity. The transformer oil shall be supplied in non- returnable containers/drums. 10% extra to be supplied in separate drums suitably labelled. 5.9.3 5.9.3 The oil supplied with transformers shall be new and previously unused and must conform following while tested at supplier's premises and shall have following parameters. SI. No. Parameter Acceptable value Applicability 1. BDV 60 kV (min) Applicable for Oil filled in transformer and Oil supplied in drums. 5.10 Valves 5.10.1 All valves up to and including 50 mm shall be of gun metal or of cast steel. Larger valves may be of gun metal or may have cast iron bodies with gun metal fittings. Sampling & drain valves should have zero leakage rate. 5.11.1 Gasket shall be fitted with weather proof, hot oil resistant, rubberized cork gasket. 5.11.2 If gasket is compressible, metallic stops shall be provided to prevent over comp	5.9 Transforr 5.9.1 Tra 5.9.1 Tra the 5.9.2 109 5.9.2 109 5.9.3 The 109 5.9.3 5.9.3 The 1. BDV 2. Mo 5.10 Valves 5.10.1 5.11 Gaskets 5.11.1	ransformer Oi ransformers sl he oil. Oil test 0% extra oil , onsignment to he insulating tandards. No apacity. The tr 0% extra to be he oil supplied blowing while arameter DV Noisture	hall be supplied comple report shall be submitt , in non-returnable s o avoid any shortage of oil for the transform inhibitors shall be us ransformer oil shall be e supplied in separate of d with transformers sha tested at supplier's pre Acceptable value 60 kV (min)	ete with transformer oil. No infreed. ealed containers, shall be set oil at the time of topping up or ters shall conform to the request sed in the oil. Quantity shall supplied in non- returnable cor drums suitably labelled. Il be new and previously unuser emises and shall have following Applicability Applicable for Oil filled in tr	nibitors shall be used ent along with ma foil at the site. Juirement of relevan I as required for funtainers/drums. d and must conform f parameters.				
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	B	3-WINDING, 280 SPV POWER	00 KVA ONAF TRANSFORMER FOR 2X10 R PLANT AT MEJIA & CHHARRAH, WBSI		REV. I	9-1071 No. 01
	5.12 PA	INTING		L	FAUL	. 14 01 13
	PARTS N		TYPE OF PAINT	COATING	S TO	TAL DFT
	Inside o (except I	f tank and accessories VI Box)	Oil & heat resistant fully glossy white	One coat	At l	east 30 micro
s Limited. the company.	and acce	surface of transformer ssories including M ept radiators)	Chemical resistant epoxy zinc phosphate primer, MIO (Micaceious iron oxide) as intermediate paint followed by polyurethane finish paint (RAL 7032 Pebble grey)	each micron		
avy Electrical he interest of	External Radiator	surface	Anticorrosive primary paint followed by high quality full glossy outer finish paint (RAL 7032 Pebble grey)	Two coats each		east 100 ron
or bnarat He etrimental to th	Internal Radiato	r surface	Hot oil proof, low viscosity varnish and subsequent flushing with transformer oil			
y d€	Internal surface of M Box phosphate primer followed by chemical and heat resistant epoxy enamel white paint					less than 100
iment is the prop directly in anywa			phosphate primer followed by chemical and heat resistant epoxy		mic	
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	B¦ F A4-11	3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X10MW(AC) SPV POWER PLANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-107 REV. No. 01		
			PAGE 15 O	F 19	
	10	Double float Buchholz relay with alarm and trip contact. The relay sha with a test cock suitable for a flexible pipe connection for checking Buchholz relay shall be provided with 2 nos. shut-off valve (on conser tank side) of size 50 mm for transformer rating up to 10MVA.	its operation.	1 set	
	11	Provision for collecting gas and oil from Buchholz relay		1 set	
mpany.	12	Silica gel dehydrating breather with oil cup; indicating type cobalt breather in transparent enclosure. (maximum height 1400 mm above	-	1 set	
est of the co	13	Magnetic oil level gauge (MOG), dial type, with alarm contact, maximum filling level markings. Contact shall be suitable for 110V/2 oil level at 30 deg C shall be marked on the gauge.		1 set	
the inter	14	Prismatic / toughened glass oil level gauge for transformer and chamber with min and max markings.	tap changer	1 set	
be used directly or indirectly in anyway detrimental to the interest of the company.	15	Spring operated Pressure relief valve with alarm/trip contacts. Lo valve shall be such that the hot oil discharge shall not fall on the trans of its parts. This shall include all necessary arrangements to fac discharge of PRV through discharge pipes away from the transformer.	former or any	2 sets	
n anyw	16	Explosion vent (double diaphragm) with sight glasses and equalizing pipe connection to conservator			
ectly i	17	Thermometer pocket for OTI		1 No	
r indir	18	Temperature sensor for OTI		1 No	
ctly o	19	Thermometer pocket for WTI		1 No	
ed dire	20	CT for WTI		2 No	
It must not be use	21	Oil temperature indicator, Digital type, with alarm and trip contact reading pointer & resetting device. Oil temperature range: 0-150 deg C (resolution 0.1 deg C) Oil temperature accuracy: +/- 1 deg C RTD PT-100 temperature sensor for OTI (IEC 751). Analog output of 4-20mA and RS 485 Modbus for remote indication of Maximum height 1500mm above ground level		1 No	
	22	Winding temperature indicator, Digital type, with alarm and trip con- temperature range: 0-200 deg C (resolution 0.1 deg C) Winding temperature accuracy: +/- 1 deg C Both outputs of 4-20mA and RS 485 Modbus output for remote indica Maximum height 1500mm above ground level.		2 Nos (1HV+ 1LV)	
	23	Marshalling box (IP55) shall be provided with removable gland plates cable entry from bottom side. Marshalling box shall be provided with OTI, WTI, transmitters (for 4-20 OTI and WTI), space heater, thermostat, lamp, MCBs, power socket, s	OmA output of	1 set	

ЪĻ	3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X10MW(AC) SPV POWER PLANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-107	
A4-11	,	REV. No. 01	
		PAGE 16 O	F 19
	terminal connectors and all other attachments that are necessary functional aspects. Terminal connectors for the following signals / connections shall be ma Number of terminal connectors for each case shall be as per requirements: PT-100 sensor from thermometer pocket 1) 4-20mA output for OTI 2) 4-20mA output for WTI 3) WTI CT secondary 4) Alarm contact of WTI 5) Trip contact of WTI 6) Alarm contact of OTI 7) Trip contact of OTI 8) Buchholz relay alarm 9) Buchholz relay trip 10) Magnetic oil level gauge alarm 11) Pressure relief valve alarm	ade available.	
	 12) 90-260V DC power supply (external source) 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free 	digital status	
24	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. 	digital status	1.001
24	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover 	digital status	
24 25	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. 	digital status	
	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover 	digital status	2 Nos
25	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes 	digital status	2 Nos 2 Nos
25 26	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes Core and winding lifting lugs / eyes 		1 set 2 Nos 2 Nos 4 Nos 4 sets
25 26 27	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes Core and winding lifting lugs / eyes Tank lifting lugs / eyes for the entire transformer Jacking pad with hauling eyes, to enable transformer with oil to 		2 Nos 2 Nos 4 Nos 4 sets
25 26 27 28	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes Core and winding lifting lugs / eyes Tank lifting lugs / eyes for the entire transformer Jacking pad with hauling eyes, to enable transformer with oil to lowered using hydraulic or screw jacks. 		2 Nos 2 Nos 4 Nos 4 sets 2 sets
25 26 27 28 29	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes Core and winding lifting lugs / eyes Tank lifting lugs / eyes for the entire transformer Jacking pad with hauling eyes, to enable transformer with oil to lowered using hydraulic or screw jacks. LV cable box supports with mounting plates 		2 Nos 2 Nos 4 Nos
25 26 27 28 29 30	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes Core and winding lifting lugs / eyes Tank lifting lugs / eyes for the entire transformer Jacking pad with hauling eyes, to enable transformer with oil to lowered using hydraulic or screw jacks. LV cable box supports with mounting plates HV cable box supports with mounting plates 		2 Nos 2 Nos 4 Nos 4 sets 2 sets 2 sets
25 26 27 28 29 30 31	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes Core and winding lifting lugs / eyes Tank lifting lugs / eyes for the entire transformer Jacking pad with hauling eyes, to enable transformer with oil to lowered using hydraulic or screw jacks. LV cable box supports with mounting plates HV cable box supports with mounting plates Bi-directional flat rollers 		2 Nos 2 Nos 4 Nos 4 sets 2 sets 2 sets 4 sets
25 26 27 28 29 30 31 32	 13) 240V AC supply (external source) 14) Spare connectors: Eight terminals Note: Alarm and trip contacts shall be rated for 110 / 220V DC Buchholz, MOG, PRV, OTI, WTI contacts shall be of potential free output to support SCADA connectivity. Inspection window with cover Cover lifting lugs / eyes Core and winding lifting lugs / eyes Tank lifting lugs / eyes for the entire transformer Jacking pad with hauling eyes, to enable transformer with oil to lowered using hydraulic or screw jacks. LV cable box supports with mounting plates HV cable box supports with mounting plates Bi-directional flat rollers Base channel with towing holes / lugs 		2 Nos 2 Nos 4 Nos 4 sets 2 sets 2 sets 4 sets 2 sets 2 sets

BĤ			1			
	■ S	PV POWER PLANT AT MEJIA & CHHARRAH, WBSEDCL	REV. No. 01			
A4-1			PAGE 17 O			
36	Bottom filte	r valve with threaded male adapter (blanking plug)		1 No		
37	Drain valve	for conservator, with blanking plug		1 No		
38	Shut-off val	ves for conservator		2 No:		
39	39 Bottom Sampling valve, with blanking plug					
40	Shut-off val	ves for radiators, with open and close markings		8 No		
41	Drain / Sludge valve at bottom most point of tank to be provided for easy flush out / removal of sludge during maintenance					
42	Valve sched	ule plate made of stainless steel or aluminium (anodized)		1 No		
43	Rating and o English)	diagram plates made of stainless steel or anodized aluminit	um (Hindi and	2 No		
44	Terminal ma	arking plates		1 Set		
45	Core to fran	ne earthing hood (2kV isolation)		1 No		
46	Earthing pads					
47	Rain hoods	on Buchholz, MOG and PRD with entry points of wires suita	ably sealed	1 set		
48	Bolts & nuts	- Galvanised steel / S.S		1 set		
49	Protected type Mercury or alcohol in glass thermometer					
50	Gas sampling pet cock for Buchholz Relay					
51	Shielding Bu	shing (3.6kV) along with copper flat and insulators		2 set		
(i) Ver (ii) Ve	dor shall subr dor shall pro tests.	testing of transformers at vendor works: nit the detailed quality plan for approval. vide inspection call with "Factory test report" to BHEL for be carried out jointly by BHEL and BHEL-customer.	r the type and			
(iii) In	utine and acc	eptance tests				
(iii) In	Following ro IEC 60076.	eptance tests outine and acceptance tests shall be carried out on 100% HEL-customer shall witness these tests at vendor works.	6 basis as per	IS 202		

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	बीएच ई	प्रम	
	B [[]	3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X10MW(AC)	PS 439-1071
	A4-11	SPV POWER PLANT AT MEJIA & CHHARRAH, WBSEDCL	REV. No. 01
	A4-11		PAGE 18 OF 19
		6) Measurement of no-load current with 415V, 50Hz AC supply	
		 7) Measurement of no-load losses and current at 90%, 100% and 110)% of rated voltage
		8) Measurements of load losses	
		9) Measurement of impedance voltage / short-circuit impedance, lo	ad loss on principal and
		extreme taps	
		10) Measurement of insulation resistance	
i. Sany		11) Dielectric tests	
omp		a. Separate source voltage withstand test	
Je c		b. Induced AC voltage short duration test (ACSD)	
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 anyway detrimental to the interest of the company.		12) Repeat of no-load current, no-load loss and IR measuremen dielectric tests	ts after completion of
L lecti		13) Oil leakage test on completely assembled transformer along with	unit coolers / radiators:
CONFIDENTIAL srty of Bharat Heavy Eler / detrimental to the intere		All tank and oil filled compartment shall be tested for oil tightne	
Heav the		filled with oil of viscosity not greater than that of specifie	
al to H		temperature and applying pressure equal to the normal pres	
FI : 3ha		measured at the base of the tank. The pressure shall be maintain	
of I		less than 6 hours during which time no sweating shall occur. Thi	
erty C		as pre-commissioning test at site with test duration of 24 hours.	s test shall be repeated
B do by		14) Jacking test followed by DP test	
AND the prop		15) Marshalling box / Cable box: IP Class test (IP55):	
tt is t tist		It shall not be possible to insert a thin sheet of paper unde	r gaskets and through
RIGHT ocument is r indirectly		enclosure joints.	Busilets and through
RT cind		16) IR measurement on wiring of Marshalling Box.	
v side v or ko		17) BDV test on oil	
COPY on this I directly		18) Measurement of capacitance & tan delta to determine capacitar	nce between winding &
di o di O		earth.	
natic use		19) Separate Source Voltage Withstand Test	
form t be		20) Induced overvoltage test	
t not			
4 L U L			
<u> </u>		her routine tests	
	7.2.1	Oil leakage test as per CBIP standard: This shall be carried out	
		on 100% basis. BHEL will witness the test.	
	7.2.2	Pressure and vacuum test on tank as per CBIP standard: For	
		this test performed on transformer tank Test certificate shall	
		be submitted to BHEL.	
	7.2.3	BDV test on oil as per IS: 335- 1993: Test certificate only shall	
		be submitted to BHEL.	

Bļļ	3-WINDING, 2800 KVA ONAF TRANSFORMER FOR 2X10MW(AC) SPV POWER PLANT AT MEJIA & CHHARRAH, WBSEDCL	PS 439-1071			
A4-1	1	REV. No. 01 PAGE 19 OF			
	L				
	/pe Tests				
7.3.1	All type tests as per Cl. 2.3 shall be conducted on 1 no. Transforme conducted either at vendor's works or at an independent NABL accr shall be witnessed by BHEL and BHEL-customer.				
8.0 D	OCUMENTS TO BE SUBMITTED AFTER RECEIPT OF PURCHASE ORDER				
8.1	Following documents shall be submitted for BHEL approval within SEV from date of purchase order.	'EN DAYS			
(a)	Detailed transformer drawings for the following:				
	(a)Overall General Arrangement (plan, elevation, end view) with overa	all dimensions			
	and bill of accessories. (b) Rating plate details				
	(c) Valve schedule plate details with elevation and side view showing va	lve positions			
	(d) HV cable box with disconnecting chamber, bushings, gland plate, cable				
	termination details, etc.				
	(e) LV cable box with disconnecting chamber, bushings, gland termination details, etc.	plate, cable			
	(f) Marshalling box (front view, side view, bill of items) and wiring diagr	am			
	(g) Foundation plan and Untanking details (removal of core and assemb				
	(h) Technical datasheets of transformer accessories such as Buchholz re oil level gauge, Pressure release valve, OTI, WTI, Temperature sensor (
	Explosion vent with diaphragm, Breather with silica gel, HV / LV Bushing etc.				
(b)	Guaranteed technical specification of transformer in line with Append	ix-B (schedule			
	of technical particulars to be furnished by manufacturer) of IS:2026 (particulars)	rt-1)-1977.			
(c)	Quality assurance plan (routine tests, type tests, test certificates) cover materials, stage-wise inspection during manufacturing, finished goods,	ring incoming			
(-)	I matchais, stage wise inspection during manaration and inspections.	packing and			





PB 2606, Mysore Road Bangalore, 560026 INDIA

SCPV: BOS: ITB - Rev 01

INSTRUCTIONS TO BIDDERS (ITB)

Bidders are requested to read the instructions carefully and submit their quotations covering all the points:

A. GENERAL INSTRUCTIONS:

- Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: SCPV: BOS: ITB – Rev 01), General Conditions of Contract (document reference: SCPV: BOS: GCC - Rev 01) and Special Conditions of Contract (document reference: SCPV: BOS: SCC: I - Rev 01/ SCPV: BOS: SCC: F - Rev 01), 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.
- 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, poor quality, 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 at the venue/place specified or if any part of the offer is incomplete the entire offer of the bidder is liable for rejection.

- 2. Supplier shall ensure to super scribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid". Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.
- 3. BHEL standard Commercial Terms and Conditions shall be duly filled, signed & stamped and must accompany Technical-Commercial offer without fail and should be submitted in original only. Photocopy will not be accepted. All documents submitted along with the offer shall be signed and stamped in each page by authorized representative of the bidder.
- 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 any 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 (I&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, MNRE Concession or other similar projects wherein supplies are eligible for customs duty /Excise 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 VI** "Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid". BHEL decision will be final.

C. GUIDELINES FOR OFFER SUBMISSION:

- 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 IDs within time of submission 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 to purchase officers.
- 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/courier 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 by BHEL, 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 of Part-1 Bid).

- 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. Impact price means only for those items which have been impacted by addition / deletion / changes in the technical specifications or commercial conditions. The impact may be +/- incremental value of the currency in which originally quoted. The impact price bid to be submitted on the cut-off date, time & venue as specified by BHEL. The impact price bid shall be opened along with original price bid.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL"). As per RFQ terms. "Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and duties, inspection charges, freight charges, test 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 & MNRE 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)
- 9. 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 openingTwo/three part bids:Date of Part-I bid openingReverse Auction:Date of Part-I bid openingIn case of Performance Bank Guarantee (PBG) also, e

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.

10. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers and on the basis or evaluation of Total Cost to BHEL.

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)
- 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.
- 3. 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 I&C/SUPERVISION:

Supply:

- 1) 80% of basic Supply value + 100% of taxes, duties and freight charges will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

<u>I&C/Supervision</u>: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

<u>O&M</u>: 100% O&M charges are payable as per RFQ terms against report certified by BHEL.

(b) SUPPLY ONLY:

 100% of Basic value with taxes, duties and freight will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later)+ submission of PBG valid for Warranty Period+ 3 months Claim Period from BHEL Consortium Bank ,if applicable.

Purchase orders for import procurement:

(c) SUPPLY WITH I&C/SUPERVISION:

Supply:

- 1) 80% of the basic value (excluding I&C charges) will be paid with 45 days credit, against Sight draft, from the date of AWB/BOL on submission of complete set of documents as in PO.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

I&C: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

(d) SUPPLY ONLY:

1) 100% of PO value will be paid against Sight draft with 45 days Credit from the date of dispatch or 15 days credit from the date of submission of complete set of documents whichever is later)+ submission of PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank ,if applicable.

Note for (a), (b), (c) and (d): In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable) as PBG is linked to Warranty period.

G. LOADING FACTORS FOR PAYMENT TERMS & DELAYED DELIVERY:

Loading factors as detailed below will be added to the quoted price (basic) to evaluate the lowest quote for noncompliance of BHEL standard commercial term.

SI No	Deviation on	Nature of Deviation / Offered Terms	Loading %
		For Purchase within India :-	
		1) Credit period less than 45 days	15
		* For Foreign Purchase :-	
		1) Payment through At Sight Letter of Credit	10
1.	Payment Terms	2)Payment through Letter of Credit with usance credit of 45 days	5
		3) Sight Draft with credit period less than 45 days	5
2.	Penalty for	1) Non – Acceptance	10
	Delayed Delivery	2) Partial Acceptance (X%)	(10 – X)

* All bank charges shall be to seller's account. If bank charges of BHEL banker are to BHEL's account then additional loading of 2% on the quoted basic value is applicable.

Offer/s with payment terms other than the standard payment terms indicated at Clause No.F or Deviated Payment Terms with loading indicated at Clause No.G above are liable for rejection.

NOTES:

1. ADVANCE PAYMENT/LC: Quotations with "Advance payment/Inland LC" shall be rejected.

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

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

4. Non-Compliance of Warranty terms. Offers not complying with Warranty terms as per RFQ Terms is liable for rejection.

5. SALE IN TRANSIT/ LOCAL VAT: Sale in transit under section 6(2) of CST is allowed if movement of goods is interstate. In case intra state movement of goods, benefit of sale in transit is not available.

6. In case of intrastate movement i.e. supply within same state and VAT is applicable, the vendor shall furnish the respective BHEL's nodal agency TIN no. and address in their invoice. (Refer **Annexure IX**)

H. 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 Warranty Period + claim period of 3 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 V).
 - 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 Annexure III). 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. In case vendor does not accept for submission of PBG, the vendor is liable for rejection on commercial grounds.

I. DOCUMENTS (TRIPLICATE COPIES) REQUIRED AT THE TIME OF DISPATCH FOR PROCESSING OF BILL:

1. FOR INDIGENOUS SCOPE OF SUPPLY:

For Supply: Invoice in Triplicate, Lorry receipt (LR) copy, Packing List, PSI Call Letter Copy, Proof of delivery such as MRC (Material Receipt Certificate)/ original acknowledged LR, Insurance intimation Letter and Warranty Certificate. Note that document pertaining to Proof of delivery shall clearly mention number of boxes/panels etc which shall be in line with the Packing list.

For I&C: Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C). **For PBG:** Supplementary Invoice in Triplicate with copy of PBG. However, PBG should reach concerned Purchase Officer directly from the Bank.

2. FOR IMPORTED SCOPE OF SUPPLY:

For Supply: Invoice in Triplicate, Air Way Bill/Bill of Lading, Packing List, PSI Call Letter Copy, and Warranty Certificate. **For I&C:** Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C). **For PBG:** Supplementary Invoice in Triplicate with copy of PBG. Both PBG & supplementary invoice should reach concerned Purchase Officer directly from the Bank.

J. 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 VIII) 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.

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

1. <u>Commitment by BHEL:</u>

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.

L. FRAUD PREVENTION POLICY:

The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <u>http://www.bhel.com</u> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice. Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units/regions intranet.

PURCHASE EXECUTIVE





Bharat Heavy Electricals Ltd., (A Government of India undertaking) Electronics Division PB 2606, Mysore Road Bangalore, 560026 INDIA

SCPV: BOS: GCC - Rev 01

GENERAL COMMERCIAL CONDITIONS FOR CONTRACT (GCC)

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

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

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

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

- 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.
- c) '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.
- e) "Bidder" shall mean duly established reputed organisation, manufacturer etc. having requisite financial and technical capability and experience of participating in the bid invited by the purchaser for the tender.
- f) Bid- The term "bid" or "bidding" can also relate to the documented Offer submitted in response to a request for quotation (RFQ) /Tender.

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.

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.
- 2. <u>Validity:</u> The offer will be valid for a period of 90 days from the date of technical bid opening date. Validity beyond 90 days, if required, will be specified in the SCC (special conditions of contract).
- 3. <u>Taxes & Duties:</u> Taxes as mentioned in the Contract Price or Price Schedule shall be paid to the Contractor subject to the Contractor complying with all the statutory requirements and furnishing the relevant documents including error free invoices containing detailed break-up of the taxes. Any duties, levies or taxes not mentioned in Contract Price or Price Schedule but applicable as per any statute(s) shall be deemed to be included in the Contract price and shall be to the account of the Contractor.

The Contractor shall bear and pay all the costs, liabilities, levies, interest, penalties in respect of noncompliances of any legal requirements as per various statutory provisions. The contractor shall keep the owner indemnified at all times from any tax liability, interest, penalties or assessments that may be imposed by the statutory authorities for non-compliances or non-observation of any statutory requirements by the Contractor.

4. <u>Ordering and confirmation of Order:</u> 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.

 <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.

6. TERMS OF DELIVERY:

FOR IMPORTED PURCHASE:

Price offered shall be for goods packed and delivered CIF Seaport/ International Airport (FCA) including packing, forwarding, Handling, Ancillary charges like processing of Sight Draft, negotiation charges of bank, Export declaration, Certificate of origin etc.

Packing shall be Air/Sea worthy, best suitable for trans-shipment and to take care of transit damages. If containerized, no. of containers & size of container shall be mentioned. Packing weight (gross & net) Packing dimensions shall be given prior to shipment to ascertain whether the consignment can be carried on standard cargo in contract or as ODC.

Wooden packing material for all the foreign consignments should be treated as per ISPM-15 & Fumigation / Phytosanitary certificate to be submitted to the freight forwarders/ BHEL along with the invoice, B/L, packing list etc.

Vendors shall indicate the name of International Airport/Seaport. The consignment shall be handed over to BHEL approved freight forwarder as mentioned in PO.

FOR INDIGENOUS PURCHASE:

Equipment shall be delivered on "FOR SITE" basis, inclusive of freight, packing, insurance & forwarding charges.

Packing shall be Road / Rail / Air / Sea worthy, best suitable for transhipment and to take care of transit damages. Smaller consignments can be dispatched through Courier services/ RPP with the prior approval of the purchasing Executive.

Deviation for the delivery term is liable for rejection.

7. <u>Penalty:</u>

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 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.

- 8. <u>Contract variations (Increase or decrease in the scope of supply):</u> 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 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.
- 9. <u>Reverse Auction:</u> BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non- consideration of their bids, in case BHEL decides to go for RA.

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

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

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

10. <u>Pre Shipment Inspection:</u> Prior written notice of at least one week 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.

- 11. <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 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.
- 12. <u>Packaging and dispatch</u>: 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.
- 13. <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.
- 14. <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.
- 15. <u>Non-disclosure and Information Obligations: Vendor</u> 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.

16. <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.

17. <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.

 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.

<u>Transit Damages:</u> 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.

- 19. <u>Remedial work:</u> 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.
- 20. <u>Indemnity Clause:</u> 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.
- 21. **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.

22. 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 nonexclusive, 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.

23. 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.

- 24. <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. The guarantee / warranty period as described shall apply afresh to replaced, repaired or re-executed parts of a delivery. If the vendor fails to take proper corrective action to repair/replace defects satisfactorily within a reasonable period, Purchaser shall be free to take corrective action as may be deemed necessary at vendor's risk and cost after giving notice to the vendor, including arranging supply of goods from elsewhere at the sole risk and cost of the vendor. Unless otherwise specifically provided in the Purchase Order, Vendor's liability shall be co terminus with the expiration of the applicable guarantee / warranty period.
- 25. <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.

26. <u>Liability during guarantee / warranty:</u> 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.

27. 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 / as specified in RFQ.

- 28. <u>Compliance with Laws</u>: 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.
- 29. 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 exetted through arbitration. Vendor shall continue to perform the contract, pending settlement of dispute(s).
- 30. <u>Arbitration Clause:</u> 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.

- 31. <u>Applicable Laws and Jurisdiction of Courts:</u> Prevailing Indian laws both substantive and procedural, including modifications thereto, shall govern the Contract. Subject to the conditions as aforesaid, the competent courts in BANGALORE alone shall have jurisdiction to consider over any matters touching upon this contract.
- 32. <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.

<u>ANNEXURE - I</u> LIST OF INTERNATIONAL GATEWAY AIRPORTS

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	ΤΟΚΥΟ, ΟSAKA
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	GERMANT	LONO	STUTTGART, DAMSTADT, MANIHIEM, NURUMBERG
D28	GERMANY	EURO	FRANKFURT
D29	GERMANY	EURO	BERLIN
D30	SWITZERLAND	SFR	BASLE, ZURICH, GENEVA
D31	SPAIN	EURO	BARCELONA
D32	AUSTRALIA	AUD	SYDNEY
D33	AUSTRALIA	AUD	MELBOURNE
D34	AUSTRALIA	AUD	PERTH
D35	CZECH	EURO	PRAGUE
D36	HONG KONG	HKD	HONG KONG
D37	NEW ZELAND	NZD	AUCKLAND
D38	RUSSIA	USD	MOSCOW
D39	SOUTH KOREA	USD	KIMPO INTERNATIONAL, INCHEON
D40	FINLAND	EURO	HELSINKI
D41	ROMANIA	EURO	BUCHAREST
D42	NORWAY	EURO	OSLO
D43	IRELAND	EURO	DUBLIN
D44	ISRAEL	USD	TEL AVIV
D45	UAE	USD	DUBAI
D46	OMAN	USD	MUSCAT
D47	EGYPT	USD	CAIRO
D48	TAIWAN	USD	
D49	UKRAINE	USD	
D50	CHINA	USD	SHANGHAI, SHENZHEN
D51	PHILIPINES	USD	
D52	MALAYSIA	USD	KUALALUMPUR, PE NANG
D53	CYPRUS	USD	
D54	SOUTH AFRICA	USD	JOHANNESBERG, DURBAN
D55	SLOVAKIA	EURO	BARTISLOVA
D56	SAUDI ARABIA	SAR	RIYADH
D57	TURKEY	EURO	ISTANBUL
D58	THAILAND	USD	
D59	BRAZIL	USD	SAO PAULO, RIO DE JANEIRO

ANNEXURE - II REQUEST FOR C FORM

NAME OF VENDOR :

VENDOR CODE ALLOTED BY BHEL :

E mail id for c form correspondence :

BHEL INVOICE INVOICE INVOICE SUPPLY SUPPLY CST TIN INVOICE PO NO NO DATE AMOUNT FROM - TO - NUMBER AMOUNT STATE STATE STATE STATE (SUPPLIER EXCLUDING FREIGHT) FREIGHT	C FORM QTR	YEAR	SUPPLY TO BHEL EDN / SITE
---	---------------	------	---------------------------------

Please note that one 'C' form will be issued for a quarter.

Any modification and cancellation of c form is not possible from our end since it is generated online therefore include all invoices pertaining to quarter in your request Also check the data are correct in all respect

General Instruction:

- 1. C form request should be given only in this file.
- 2. Amount should be 100% of Invoice value but should Not include freight, Insurance etc.
- 3. PO No. should be numeric, starting with 4 and has 10 digits
- 4. For every quarter separate file to be provided
- 5. All Invoices pertaining to the relevant quarter to be included.
- 6. No corrections will be entertained once c-form is issued.

ANNEXURE-III

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No: Date:

То

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs -------- (Rupees -------) without any demur, immediately on a demand from the Employer, . Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not

exceeding Rs.

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

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

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

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

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

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

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

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

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

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed......⁸
- b) This Guarantee shall be valid up to⁹
- c) Unless the Bank is served a written claim or demand on or before _____¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

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

For and on behalf of (Name of the Bank)

Dated
Place of Issue

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

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

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

- ⁴ PROJECT/SUPPLY DETAILS
- ⁵ BG AMOUNT IN FIGURES AND WORDS
- ⁶ VALIDITY DATE
- ⁷ DATE OF EXPIRY OF CLAIM PERIOD
- ⁸ BG AMOUNT IN FIGURES AND WORDS.
- ⁹ VALIDITY DATE
- ¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

Note:

- 1. 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 - IV

Electronic Funds Transfer (EFT) OR
Paylink Direct Credit Form	

Please Fill up the form in CAPITAL TYPE OF REQUEST(Tick one):			_ CHANGE	
BHEL Vendor / Supplier Code:			1	
Company Name :	-			
Permanent Account Number(PAN) Address	:			
				I
City:	PINCODE		STATE	
Contact Person(s)				
Telephone No:				
Fax No:				
e-mail id:				
1 Bank Name:				
2 Bank Address:				
3 Bank Telephone No:				
4 Bank Account No:				
5 Account Type: Savings/Cash Credi				
6 9 Digit Code Number of Bank and I appearing on MICR cheque issued				
7 Bank swift Code(applicable for EFT				
8 Bank IFSC code(applicable for RTC				
9 Bank IFSC code(applicable for NEI				
I hereby certify that the particulars that I, as a representative for the al Bangalore to electronically deposit If the transaction is delayed or not de information, I would not hold BHEL. This authority remains in full force requesting a change or cancellation I have read the contents of the cov expected of me as a participant un-	bove named Co payments to the effected at all fo . / transfering Ba until BHEL, EDI n. ering letter and	mpany, hereby e designated b or reasons of ir ank responsible N,Bangalore re	y authorise BHEL, EDN, ank account. ncomplete or incorrect e. eceives written notification	
Date:				
Authorised Signatory: Designation:			Telephone NO. with STD C	ode
Company Seal	Bank Cart	finate		
We certify that	Bank Certi has an Acc		with us	and
we confirm that the bank details give				
Date:			()
			Signature	.)
Place: Please return completed form along	g with a blank c	ancelled chequ	ue or photocopy thereof to:	
Bharath Heavy Electricals Ltd,			-	
Attn:				
Electronics Division, Mysore Road, BANGALORE - 560 026				
In case of any Querry, please call :	080-26998xxx	/ 2674xxxx or	fax no. 080-2674xxxx	

А

в С

D

ANNEXURE-V 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		
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 - VI

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 discrepancybetween the unit price and the total price (which is obtained by multiplying the unit price by thequantity), the unit price shall prevail and the total price corrected accordingly, unless in theopinion 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 - VII

BENEFITS FOR MSE SUPPLIERS AS PER MSMED ACT 2006 AND PUBLIC PROCUREMENT POLICY 2012

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of Acknowledgement in EM II).

0r

Valid NSIC certificate or EM II certificate along with attested copy of CA certificate (Format enclosed: ANNEXURE VIII) where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited).

Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid).

Non-submission of such documents will lead to consideration of their bid at par with other bidders.

No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazette officer.

ANNEXURE - VIII **CERTIFICATE BY CHARTERED ACCOUNTANT ON LETTER HEAD**

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

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial yearas per MSMED Act 2006 is as follows: 1. For Manufacturing Enterprises: Investment in plant and machinery (i.e., original cost excluding land and building and the items specified by the Ministry of Small Industries vide its notification No.S.O.1722 (E) dated October 5, 2006:

Rs.Lacs.

2. For Service Enterprises: Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act. 2006:

Rs.Lacs.

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

(or)

The company has been graduated from its original category (Micro/Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is(dd/mm/yy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O.No.3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date: (Signature) Name -Membership Number -

Seal of Chartered Accountant

ANNEXURE - IX

In case of intrastate movement i.e. supply within same state and VAT is applicable, the vendor shall furnish the respective BHELTMs nodal agency TIN no. and address in their invoice.

r						1
Region	State	Nodal Unit responsible for all other units except those in column 4	Contact Details- Landline No.	E-mail	TIN No.	CST No.
1	2	3		7	8	9
	Jammu & Kashmir	PSNR			01291101313	
	Himachal Pradesh	PSNR			02011000622	
s	Punjab	PSNR	0120- 2510488/2416452	<u>rahulb@bhelpsnr.co.in /</u> a.chadha@bhelpsnr.co.in	03451148722	
State	Haryana	PSNR			06962606884	
Norther States	Rajasthan	PSNR			08232903345	
No	Uttar Pradesh	PSNR	0120-2416536	rahulb@bhelpsnr.co.in / smittal@bhelpsnr.co.in	09365800914	
	Uttarakhand	Hardwar	01334-285449	alok@bhelhwr.co.in	05001757277 Dated 30th Sep 2005	5000030 Dated 13/03/1965
	Delhi	TBG	0120-6748429	skjindal@bhel.in	07472001760	07472001760
s	Madhya Pradesh	Bhopal	0755-2503231	meeta@bhelbpl.co.in	23573600001 (HEL/05/01/0001/S dated 15/11/1979 under MPCT)	HEL/05/01/0004/C dated 15/11/1979
State	Chattisgarh	PSWR	0712-3048609	mgupta@bhelpswr.co.in	22173202974	
Western States	Gujarat	PSWR	0265-2370321	bhavin@bhelpswr.co.in	24190101571	
Wes	Maharashtra	ROD Mumbai	022- 22126061/22187850	<u>mahajani@bhel.in</u>	27060300130V	27060300130C
	Daman & Diu	EDN	080-26998724 / 26998830	theerthagiri@bheledn.co.in	25000009902	
	Orissa	PSSR	044-28286773	<u>sparida@bhelpssr.co.in , lakshmi@bhelpssr.co.in</u>	21031301916	
ates	Tamil Nadu	Trichy	0431-2577757/ 2577229	msrao@bheltry.co.in33243560005 /bharaths@bheltry.co.in33243560005		239383 dt.11.6.91
'n Sta	Kerala	PSSR	044-28286773	lakshmi@bhelpssr.co.in	32072043622	
Southern States	Karnataka	EDN	080-26998724 / 26998830	theerthagiri@bheledn.co.in	29180069268	00850081
Sc	Telangana	HPEP RC, Puram	040-23185406/ 040-23182238	<u>chand@bhelhyd.co.in</u> sbsv@bhelhyd.co.in	36360151179	
	Andhra Pradesh	HPVP, Vizag	0891-6681298	sarmaass@bhpvl.com	37418632431	
	Puducherry	PSSR		1		1
	West Bengal	PSER	033-23216130-3238	amitavac@bhelpser.co.in	19200936019	19200936213
	Bihar	PSER	0612-2231275	rakesh@bhelpser.co.in	10010994046	10010994046
Eastern States	Jharkhand	PSER	06549-266351(Sh. Parmanand Swaroop)/06534- 292179 (Sh. K.K. Ajeet)	pswaroop@bhelpser.co.in (Bokaro) kk.ajit@bhelpser.co.in (Koderma/Abhijeet/North Karanpura) manishk.jain@bhelpser.co.in (Chandrapura)/kpsubbu@bhelp ser.co.in kpsubbu@bhelpser.co.in	20352205642 (Bokaro) 20082005255 (Maithon) 20512405410 (Koderma) 20122200394 (Chandrapura) 20620905730(Adhunik) 20650507026(Abhijeet) 20452110016 (North Karanpura)	TG-729(C)
	Mizoram	PSER	033-23216130-3249	anindya@bhelpser.co.in	15501465017	
	Arunachal Pradesh	PSER	033-23216130-3249	anindya@bhelpser.co.in	12020122182	Not Applied
	Assam	PSER	033-23216130-3249	anindya@bhelpser.co.in	18790101415	18179903204
	Tripura	PSER	03821-265209	mkmahato@bhelpser.co.in	16060947071	16060947273
	Sikkim	PSER				
	Meghalaya	PSER				
	Manipur	PSER				
	Nagaland	PSER				

List of Statewise Nodal Officers with Contact Details

		SPECIAL COMMERCIAL CONDITIONS OF CONTRACT (SCC) - for foreign v RFQ No. ANKBOS0005 Dtd. 02.03.2017 Due Date (Tech Bid): 10.03.2		
Sl. No.	Terms	BHEL Term	Confirmation	Deviation/Remarks
		(a) Vendor shall be OEM of power transformers. As evidence to this, vendor shall submit a self-certified letter declaring the address of their existing manufacturing and testing works.	Comp	
		(b) Vendor shall submit list of installations of oil-filled transformers of capacity 1250 KVA and above, and of HV side as 33KV and above) in last three years. Client name, transformer type & rating, number of transformers installed and year of installation shall be provided for each case.	Comp	lied
	Pre-Qualification	(c) Vendor shall submit at least one certificate of commissioning or satisfactory performance from customer for minimum 2500KVA capacity transformer.	Comp	lied
1	Criteria (PQC)	(d) Vendor should have manufactured and supplied multi-winding power transformer. Evidence shall be furnished along with offer in the form of PO copies and proof of supply (invoice and/ or LR copy).	Comp	lied
		(e) Vendor shall submit type test reports for 2-winding or multi-winding transformer capacity between 2500 KVA and 5000 KVA (also, with HV side as 33KV and above) transformer for the following minimum tests: i. Lightning impulse test ii. Short circuit dynamic withstand test iii. Measurement of Capacitance and tan Delta between windings to earth and between windings	Comp	lied
		(a) Bid has to be submitted as Two Part – Techno Commercial Bid (Part-1) & Price Bid (Part-II).Bids shall be submitted through e-Procurement portal https://bheleps.buyjunction.in of M/s. Mjunction Services Limited.	Comp	lied
2	Bidding	(b) SCC & Annexure A1 to be submitted along with Technical bid (Part-I) & Annexure A2 to be submitted along with Price bid (Part-II).	Comp	lied
		(c) Clause-wise compliance to BHEL Purchase specification along with all documents as called in Technical specification to be submitted along with technical bid(Part-1).	Comp	lied
3	Price basis:	Firm i.e., from the date of PO to completion of supply if I&C is not applicable. If I&C is in supplier's scope,then the prices shall remain firm till commissioning & handing-over of the complete system. (PVC clause not acceptable).	Comp	lied
4	Terms of Delivery:	CIF Seaport/ CIF Airport/FCA Airport (Indicate name of Seaport/Airport)	Comp	lied
5	Delivery Period:	 (a) Supply-Mejia site: Within 8 (Eight) weeks from the date of drawing approval. (b) Supply-Chharrah site: Within 4 (four) weeks from the date of drawing approval. (c) Drawing Submission for both sites : Within 1 (One) week from the date of Purchase Order. 	Acceptable / Not acceptable	
		(d) I&C for both sites : 2 (Two) weeks from the date of supply.	Acceptable / Not acceptable	
6	Payment Term:	 B0% of the basic value (excluding I&C charges) will be paid with 45 days credit, against Sight draft, from the date of AWB/BOL on submission of complete set of documents as in PO. 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (If any). Balance 10% (retention money) against submission of supplementary invoice along with PBC valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank. (b) I&C: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis. Note: In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (I applicable) as PBG is linked to Warranty period. (b) For any deviation in payment term, the offer will be liable for loading as per Clause 	Acceptable / Not acceptable Acceptable / Not	
	Evalution of L1	G of ITB. Over all L1 (both project sites combined) of Supply + Spares + I&C + Type Test Charges	acceptable	
7	vendor	on "FOR" basis to sites will only be considered.	Comp	lied
8	Octroi	Octroi, if any, applicable against supply to these project sites shall be to vendor's account only.	Comp	lied
9	Warranty:	Warranty for Supply: 18 months from Supply or 12 months from I&C whichever is earlier.	Acceptable / Not acceptable	
10	Pre Shipment	(a) Pre Shipment Inspection will be carried out by BHEL/Customer for which test report shall be sent one week in advance.	Acceptable / Not acceptable	
10	Inspection	(b) Pre Shipment Inspection charges, if any, shall be considered while evaluating your offer to arive at "Total Cost to BHEL". The charges for the same shall be informed to you before Price Bid Opening/Reverse Auction.	Acceptable / Not acceptable	
11	Penalty	(a) Supply: Penalty of 0.5% per week at the basic price of the good for undelivered quantity of supply portion, subject to a maximum of 10%. For Supply, Pre Shipment Inspection Call Letter Date (Receipt of test report) will be treated as delivery for purpose of penalty.	Acceptable / Not acceptable	
		(b) For any deviation in penalty term, the offer will be liable for loading as per Clause No. G, Point No.(b) of ITB.	Acceptable / Not acceptable	
12	PBG	PBG shall be furnished in the BHEL prescribed format.	Acceptable / Not acceptable	
13	Validity:	Quotation should remain valid for a period of 90 days from the due date.	Acceptable / Not acceptable	
14	Bank charges (If applicable):	(a) All Bank charges to seller's account	Acceptable / Not acceptable Acceptable / Not	
15	Reverse Auction:	(b) Deviation will be liable for loading as per Cl.G of ITB BHEL reserves the right to conduct Reverse auction.Procedure for the same will be	acceptable Acceptable / Not	
16	DUN No.	informed by BHEL . Please mention Dun & Bradstreet No.(DUN No.)	acceptable	
16 17	Consignment Details	Please mention Dun & Bradstreet No.(DUN No.) Weight and Dimension of consignment with packing.	Furnished / To be	
1/	consignment Details	Weight and Dimension of consignment with packing. Despatch documents include Air Waybill/Bill of Lading, Invoice, Packing list, PSI letter	furnished	ļ
18	Despatch Documents:	Copy and Warranty certificate. One copy of Invoice, Packing list and Air Way Bill /Bill of Lading shall be faxed/emailed immediately after despatch. Also one copy of packing list to be kept inside each box for easy identification of material at site.	Acceptable / Not acceptable	
19	Other terms & conditions	For any other Terms and Conditions, kindly refer to the following: A: ITB (document ref: SCPV: BOS: ITB - Rev 01) B: GCC (document ref: SCPV: BOS: GCC - Rev 01)	Acceptable / Not acceptable	
20	Break-up of spares	Break-up of spares with quantity to be enclosed with Part-1 Bid.	Comp	lied
		Item-wise price break-up of spares to be enclosed with Part-2 Bid.	. 1	

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ANNEXURE-A1

	TECHNICAL BID ENCLOSURE FOR COMPLIANCE OF QUOTE : UNPRICED BID (Foreign Vendors) RFQ No. ANKBOS0005 Dtd. 02.03.2017 Due Date (Tech Bid): 10.03.2017							
Sl No.	Material Code	DESCRIPTION	PROJECT	QTY	UNIT	QUOTED	CURRENCY	
1	PS0679064885	Supply of 2.8MVA ONAF Transformer	MEJIA	4	NO	YES/NO		
2	PS0679064885	Supply of 2.8MVA ONAF Transformer	CHHARRAH	4	NO	YES/NO		
3	PS0679064893	Spares for 2.8MVA ONAF Transformer	MEJIA	1	ST	YES/NO		
4	PS0679064893	Spares for 2.8MVA ONAF Transformer	CHHARRAH	1	ST	YES/NO		
5	PS0679064974	I&C support for 2.8MVA ONAF Transformer	MEJIA	4	AU	YES/NO		
6	PS0679064974	I&C support for 2.8MVA ONAF Transformer	CHHARRAH	4	AU	YES/NO		
7	PS0679064915	Type Test Charges for Transformer	MEJIA	1	AU	YES/NO		
8	PS0679064915	Type Test Charges for Transformer	CHHARRAH	1	AU	YES/NO		

Note:

1. The entire quantity for both sites shall be procured from a single vendor.

2. The above format only shall be used for compliance.No changes are acceptable.

3. BHEL is trying to avail Customs Duty & Excise duty exemption. Successful bidder shall support with all relevant documents.

			PRICE BID (Foreign V	-				
		RFQ No. ANKBOS00	05 Dtd. 02.03.2017 Du	ie Date (Tech E	3id): 10.0	3.2017		
Sl No.	Material Code	DESCRIPTION	PROJECT	QTY (combined for 2 sites)		Unit Rate	Total Value (Rs.) (Rate X Qty)	CURRENCY
1	PS0679064885	Supply of 2.8MVA ONAF Transformer	MEJIA	. 8	NO			
2	PS0679064885	Supply of 2.8MVA ONAF Transformer	CHHARRAH	0	NO			
3	PS0679064893	Spares for 2.8MVA ONAF Transformer	MEJIA	2	ST			
4	PS0679064893	Spares for 2.8MVA ONAF Transformer	CHHARRAH	L	ST			
5	PS0679064974	I&C support for 2.8MVA ONAF Transformer	MEJIA	8	AU			
6	PS0679064974	I&C support for 2.8MVA ONAF Transformer	CHHARRAH	0	AU			
7	PS0679064915	Type Test Charges for Transformer	MEJIA	2	AU			
8	PS0679064915	Type Test Charges for Transformer	CHHARRAH	2	AU			

Note:

1. The entire quantity for both sites shall be procured from a single vendor.

2. The above format only shall be used for compliance.No changes are acceptable.

3. BHEL is trying to avail Customs Duty & Excise duty exemption. Successful bidder shall support with all relevant documents.

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SCPV: BOS: SCC: I - Rev 01

SPECIAL COMMERCIAL CONDITIONS OF CONTRACT (SCC) - for indigenous vendors						
	•	RFQ No. ANKBOS0005 Dtd. 02.03.2017 Due Date (Tech Bid): 10.03.2				
Sl No.	Terms	BHEL Term (a) Vendor shall be OEM of power transformers. As evidence to this, vendor shall	Confirmation	Deviation / Remarks		
		submit a self-certified letter declaring the address of their existing manufacturing and testing works.	(Complied		
		(b) Vendor shall submit list of installations of oil-filled transformers of capacity 1250 KVA and above, and of HV side as 33KV and above) in last three years. Client name,	(Complied		
		transformer type & rating, number of transformers installed and year of installation shall be provided for each case.		-		
	Pre-Qualification	(c) Vendor shall submit at least one certificate of commissioning or satisfactory performance from customer for minimum 2500KVA capacity transformer.	(Complied		
1	Criteria (PQC)	(d) Vendor should have manufactured and supplied multi-winding power transformer. Evidence shall be furnished along with offer in the form of PO copies and proof of supply (invoice and/ or LR copy).	(Complied		
		(e)Vendor shall submit type test reports for 2-winding or multi-winding transformer capacity between 2500 KVA and 5000 KVA (also, with HV side as 33KV and above) transformer for the following minimum tests:				
		i. Lightning impulse test ii. Short circuit dynamic withstand test	(Complied		
		iii. Measurement of Capacitance and tan Delta between windings to earth and between windings				
		(a) Bid has to be submitted as Two Part – Techno Commercial Bid (Part-1) & Price Bid (Part-II).Bids shall be submitted through e-Procurement portal https://bheleps.buyjunction.in of M/s. Mjunction Services Limited.	(Complied		
2	Bidding	(b) SCC & Annexure B1 to be submitted along with Technical bid (Part-I) & Annexure B2 to be submitted along with Price bid (Part-II).	(Complied		
		(c) Clause-wise compliance to BHEL Purchase specification along with all documents as called in Technical specification to be submitted along with technical bid(Part-1).	Complied			
3	Price Basis	Firm i.e., from the date of PO to completion of supply if I&C is not applicable. If I&C is in supplier's scope,then the prices shall remain firm till commissioning & handing-over of the complete system.(PVC clause not acceptable).	Complied			
4	Terms of Delivery	Free On Road Basis to following Project sites : (a) Mejia in Bankura District, West Bengal (b) Chharrah in Purulia District, West Bengal	Complied			
5	Delivery Period	 (a) Supply-Mejia site: Within 8 (Eight) weeks from the date of drawing approval. (b) Supply-Chharrah site: Within 4 (four) weeks from the date of drawing approval. (c) Drawing Submission for both sites : Within 1 (One) week from the date of Purchase Order. 	Acceptable / Not acceptable			
		(d) I&C for both sites : 2 (Two) weeks from the date of supply.	Acceptable / Not acceptable			
		 (a) Supply: 1) 80% of basic Supply value + 100% of taxes, duties and freight charges will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later. 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any). 3) Balance 10% (retention money) against submission of supplementary invoice along 				
6	Payment Term	3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank. (b) I&C/Supervision: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.	Acceptable / Not acceptable			
		Note : In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable) as PBG is linked to Warranty period.				
		(b) For any deviation in payment term, the offer will be liable for loading as per Clause G of ITB.	Acceptable / Not acceptable			
		(a) To confirm whether applicable. If applicable, indicate prevailing rate of Excise duty.	Applicable / Not applicable	Prevailing rate of Excise duty :%		
7	Excise Duty	(b) BHEL is trying to avail Customs Duty & Excise duty exemption through MNRE. Successful bidder shall support with all relevant documents failing which ED shall not be reimbursed.	Complied			

		(a) To confirm whether applicable. If applicable, indicate prevailing rate of Sales Tax against Form C.	Applicable / Not applicable	Prevailing rate of Sales Tax against Form C:%
8	Sales Tax	(b) For issue of form "C", vendor has to furnish "E1/E2" form.Please confirm that "E1/E2 Sale form" will be submitted.	Acceptable / Not acceptable	
		(c) Wherever E1/E2 transactions are made, CST paid by sub vendor will not be reimbursed (As it is input cost to vendor)	(Complied
9	Value Added Tax	Both are in the same state, VAT is applicable.Please indicate VAT applicable.	Applicable / Not applicable	Prevailing rate of VAT : %
10	Octroi	Octroi, if any, applicable against supply to these project sites shall be to vendor's account only.	(Complied
		To confirm whether applicable, if applicable indicate current rate of Service Tax.		Prevailing rate of Service Tax:
11	Service Tax	Furnish Service Tax Regn. No. Confirmation that Service Tax register is maintained.	Applicable / Not applicable	Service Tax Regn. No. S.Tax Register maintained : Yes/No
12	Evalution of L1 vendor	Over all L1 (both project sites combined) of Supply + Spares + I&C + Type Test Charges on "FOR" basis to sites will only be considered.	(Complied
13	Warranty	Warranty for Supply: 18 months from Supply or 12 months from I&C whichever is earlier.	Acceptable / Not acceptable	
	Pre Shipment	(a) Pre Shipment Inspection will be carried out by BHEL/Customer for which test report shall be sent atleast one week in advance.	Acceptable / Not acceptable	
14	Inspection	(b) Pre Shipment Inspection charges , if any, shall be considered while evaluating your offer to arive at "Total Cost to BHEL". The charges for the same shall be informed to you before Price Bid Opening/Reverse Auction.	Acceptable / Not acceptable	
15	Penalty	(a) Supply: Penalty of 0.5% per week at the basic price of the good for undelivered quantity of supply portion, subject to a maximum of 10%. For Supply, Pre Shipment Inspection Call Letter Date (Receipt of test report) will be treated as delivery for purpose of penalty.	Acceptable / Not acceptable	
		(b) For any deviation in penalty term, the offer will be liable for loading as per Clause No. G, Point No.(b) of ITB.	Acceptable / Not acceptable	
16	Road Permit	Road permit if applicable will be given by BHEL before Dispatch of ordered Items.However, vendor shall give request for road permit 24 hours in advance.	(Complied
17	PBG	PBG shall be furnished in the BHEL prescribed format.	Acceptable / Not acceptable	
18	Despatch Documents	Complete set of despatch documents in 3 sets shall be forwarded to BHEL directly. Despatch documents include Commercial Invoice, Excise Invoice (if ED is applicable), Lorry receipt (L/R), Packing list, PSI letter Copy, Proof of delivery such as MRC (Material Receipt Certificate)/ original acknowledged LR, Insurance intimation letter and Warranty certificate. One set of Invoice, Packing list and L/R shall be emailed immediately after despatch to BHEL-EDN, Bangalore.	Complied	
19	Reverse Auction	BHEL reserves the right to conduct Reverse auction.Procedure for the same will be informed by BHEL .	Acceptable / Not acceptable	
20	Other terms & conditions	For any other Terms and Conditions, kindly refer to the following: A: ITB (document ref :SCPV: BOS: ITB - Rev 01) B: GCC (document ref: SCPV: BOS: GCC - Rev 01)	Acceptable / Not acceptable	
21	Validity	Quotation should remain valid for a period of 90 days from the due date.	Acceptable / Not acceptable	
22	Shipment	Kindly indicate the state from where the shipment will take place.	State/Place	
23	Break-up of spares	Break-up of spares with quantity to be enclosed with Part-1 Bid. Item-wise price break-up of spares to be enclosed with Part-2 Bid.	(Complied

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ANNEXURE B1

TECHNICAL BID ENCLOSURE FOR COMPLIANCE OF QUOTE : UNPRICED BID (Indigenous Vendors)											
RFQ No. ANKBOS0005 Dtd. 02.03.2017 Due Date (Tech Bid): 10.03.2017											
SI No.	Material Code		PROJECT	QTY	UNIT	QUOTED	TAXES				D
		DESCRIPTION					ED %	CST%	VAT %	S TAX%	Remarks
1	PS0679064885	Supply of 2.8MVA ONAF Transformer	MEJIA	4	NO	YES/NO				NA	Taxes Extra
			CHHARRAH	4	NO	YES/NO				NA	Taxes Extra
2	PS0679064893	Spares for 2.8MVA ONAF Transformer	MEJIA	1	ST	YES/NO				NA	Taxes Extra
			CHHARRAH	1	ST	YES/NO				NA	Taxes Extra
3	PS0679064974	I&C support for 2.8MVA ONAF Transformer	MEJIA	4	AU	YES/NO	NA	NA	NA		Taxes Extra
			CHHARRAH	4	AU	YES/NO	NA	NA	NA		Taxes Extra
4	PS0679064915	Type Test Charges for Transformer	MEJIA	1	AU	YES/NO	NA	NA	NA		Taxes Extra
			CHHARRAH	1	AU	YES/NO	NA	NA	NA		Taxes Extra
5	Freight Charge including Service Tax on Freight . Freight Charges shall be quoted as a percentage of Basic Supply value which shall be the same for all sites (anywhere in India).The present Projects are : MEJIA & CHHARRAH IN WEST BENGAL STATE				ic supply ue	YES/NO	NA	NA	NA	NA	Taxes Included

Note:

1. The entire quantity for both sites shall be procured from a single vendor. Overall L1 of all sites on FOR basis shall be considered.

2. The quoted prices shall be on "FOR" basis to project sites.

3. Please indicate taxes : ED, VAT/CST and Service Tax clearly applicable as on date.

4. The above format only shall be used for compliance.No changes are acceptable.

5. Taxes will be considered extra. Please quote only the basic rates.

6. Freight charges shall be quoted extra as a percentage of the basic supply value.

7. BHEL is trying to get concession on Excise Duty under supply for solar power project. At the time of clearance of goods we may issue exemption certificate. In such case, ED will be exempted but not reimbursed.

8. Insurance will be in BHEL scope.

		ANNEXURE B2

PRICED BID (Indigenous Vendors)												
			RFQ No. ANK		2.03.2017	7 Due Date (Tech Bid): 1	10.03.2017	TAXES				
Sl No.	Material Code	DESCRIPTION	PROJECT	QTY (combined for 2 sites)	UNIT	UNIT RATE	Total Value (Rs.) (Rate X Qty)	ED %	CST%	VAT %	S TAX%	Remarks
1	PS0679064885	Supply of 2.8MVA ONAF Transformer	MEJIA	. 8	NO						NA	Taxes Extra
			CHHARRAH								NA	Taxes Extra
		Unit rate in words										
2	PS0679064893	Spares for 2.8 MVA ONAF Transformer	MEJIA	2	ST						NA	Taxes Extra
			CHHARRAH								NA	Taxes Extra
		Unit rate in words										
3	PS0679064974	I&C support for 2.8MVA ONAF Transformer	MEJIA	8	AU			NA	NA	NA		Taxes Extra
			CHHARRAH					NA	NA	NA		Taxes Extra
		Unit rate in words			-					-		
	PS0679064915	Type Test Charges for Transformer	MEJIA	2	AU			NA	NA	NA		Taxes Extra
4			CHHARRAH					NA	NA	NA		Taxes Extra
		Unit rate in words										
_	Freight Charge including Service Tax on Freight . Freight Charges shall be quoted as a percentage of Basic Supply value which shall be the same for all sites (anywhere in India).The present Projects are : MEJIA & CHHARRAH IN WEST BENGAL STATE				%					NA	NA	Taxes Included

Note:

1. The entire quantity for both sites shall be procured from a single vendor. Overall L1 of all sites on FOR basis shall be considered.

2. The quoted prices shall be on "FOR" basis to project sites.

3. Please indicate taxes : ED, VAT/CST and Service Tax clearly applicable as on date.

4. The above format only shall be used for compliance.No changes are acceptable.

5. Taxes will be considered extra. Please quote only the basic rates.

6. Freight charges shall be quoted extra as a percentage of the basic supply value.

7. BHEL is trying to get concession on Excise Duty under supply for solar power project. At the time of clearance of goods we may issue exemption certificate. In such case, ED will be exempted but not reimbursed.

8. Insurance will be in BHEL scope.