

These clarifications are in addition to the Buyer added ATC document given in the tender floated on 01.07.2023.

### Pre-Bid Points - Clarifications by BHEL dated 10.07.2023

DG SETS Patratu PROJECT in GeM portal. Attached Is the Bid. GEM/2023/B/3616555 date 01-07-2023


S. No.	Clause No.	Pg No	DESCRIPTION	CLARIFICATIONS/COMMENTS	BHEL REPLY
1	V.9:-ACOUSTIC ENCLOSURE	13 of 74	Noise measurement shall not exceed 85 db(A) at horizontal distance of 1 meter and vertical distance of 1.5 metre from ground all around the machine	As per CPCB norms noise insertion loss shall be 25 dBA at one meter distance from DG set under free field condition.	As per CPCB norms noise insertion loss shall be 25 dBA at 0.5 meter distance from acoustic enclosure under free field condition.
2	POWER SUPPLY:	8 OF 74	Control Supply for panel 220 V DC+10% to (-)15%, 2wire, Unearthed	IT WILL BE IN CLIENT SCOPE.	Bidders understanding is correct.
3	V.4:- BATTERY CHARGER	12 OF 74	BATTERY CHARGER IP-230V AC & 415 V AC BOTH	WE HAVE CONSIDER IP-230V AC.	Noted and confirmed.
4	V.4:- BATTERY CHARGER	12 OF 74	1- (Charger should be Float charger & Flow Suitable Float cum Boost battery 2- Charger for recharging Engine starting battery at cum Boost charger) and timing pointer.	WE FIND AMBIGUITY BETWEEN TWO CLAUSE WE HAVE CONSIDER FCBC CHARGER ONLY. SINCE SMPS CHARGER IS REQUIRED IT WILL WORK ON AUTO MODE ONLY.	Only one no.SMPS type Float cum boost charger is required for each DG Set. Charger should automatically change from float to boost and vice versa depending upon the state of the battery.
5	V.13:-TOOLS AND TACKLES:	13 OF 74	Bidder to supply one set of new tools and tackles specific to the supplied DG set for the maintenance of the equipment exclusively by customer.	One set of tools means Common Tools for all All Set or One Set per Dg set- Please Confirm.	1 set of common tools and tackles for all DG Set.

6	V.17:- MANDATORY SPARES	15 OF 74	Bidder to supply one set of mandatory spares for DG set package as per list below. These mandatory spares should be separately packed and shipped	Plesae Confrim, 1 Set means – 1 complete set as used in engine/ alternator. For example - Piston with rings - 1 set shall be read as 16 Sets for 1 engine. Plesae Confrim	1 set means as required for one complete engine. For example piston rings -1 set means for as required for 16 pistons . ( If 16 cylinder engine is being offered).
7	V.18:- AMF CONTROL PANEL	17 OF 74		DG ISOLATOR IS NOT IN OUR SCOPE OF SUPPLY.	Bidders understanding is correct.
8	9.00.00 GENERATOR	37 of 74	c) Power factor : 0.85	Pf shall be 0.8 Lagging	PF shall be 0.8 lagging.
9		37	9.02.01- Neyural Side CT	The Scepcification is tentative and May be Changed at the Time of detailed enginnering. Plesae Confrim.	Neutral side CT not required. Neutral shall be grounded through VT.
10	9.00.00 GENERATOR	38 of 74	ix) Resistance elejment temperature detector shall be installed at the following locations: Six numbers of Duplex type or 12 nos. Simplex type Resistance element Temperature Detectors (RTDs) shall be suitably distributed at locations where highest temperatures may be expected in stator windings and one (1) element in each bearing. The RTD's shall comply with the latest edition of IS:2828.	Since offered Alternator is Single Bearing type Hence 1 no. BTDis offered. 2 RTD per pahce & total 6 no. RTD offered along with each alternator.	1 no. BTDis acceptable if single bearing alternator is being offered by bidder. However 4 RTD per phase to be provided in stator winding as per specifications.
11	12.01.02	40	The Battrey or Compressed air System	The DG would only be with battrey Start System only.	Noted and confirmed.

12	Noise Leve	42 of 74	Noise level measurement shall be done generally following the guidelines given in IS: 12065	It is not possible to conduct noise level test at manufacture works due to non availability of field condition and ambient noise	Noise level measurement shall be done at site during final commissioning of DG Sets .
13	Quality Assurance	49	QAP SQ18	The Above is not a part of the Test and is internal dosumnets of the engine manufcaturer as Proprietary items hence would not be Applicable. QAP given by the Engine Manufcaturer will be followed.	QAP as per engine manufacturer is acceptable , however it shall have all tests as per relevant and applicable standards.
14	Quality Assurance	50	QAP Alternator	The Above is not a part of the Test and is internal dosumnets of the Alternator manufcaturer as Proprietary items hence would not be Applicable. QAP given by the Alternator Manufcaturer will be followed.	QAP as per alternator manufacturer is acceptable , however it shall have all tests as per relevant and applicable standards.
15	MANDATORY SPARES PRICE BREAKUP	74	NOTE : 1 SET MEANS COMPLETE REQUIREMENT FOR ONE DG	Please amend the Price Bid BOQ for 5 Set instead of 1Set as total 5 Nos. 2000 KVA DG SET	Mandatory spares is common for all DG Set. Please quote as per mandatory spares break up provided.
16	Make of DG set			Plesae Provide Approved list of Engine and Alternator	Enclosed
17	OEM for Dg set			Plesae Provide Approved list of OEM for DG set	Enclosed
18	PRE QUALFICATION	1 & 2 of 74	Technical/turnover	PLEASE ACCEPT THE OEM TECHNICAL & TURNOVER CRITRIA FOR PQC FOR THE BIDDER AUTHORISED BY OEM.	Technical qualification certificates of OEM is acceptable. However financial criteria of bidder will only be considered.

19				We could not find payment terms tender	<p>(A) Payment Terms shall be as per Cl. No. 12 of GeM GTC:</p> <p>12. Payment Authority and Payment Terms: Payments shall be made to the Seller in the manner below:</p> <p>100% payment will be released within ten (10) days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills unless otherwise specified in STC / ATC</p> <p>However, the payment timeline shall be as per Cl. No. 6.14 Payment Timelines of ATC of GeM Bid document.</p> <p>Type of Bidder Payment Timeline (Number of days)</p> <p>Micro &amp; Small Enterprises (MSEs)- 45 days</p> <p>Medium Enterprises- 60 days</p> <p>Non MSME- 90 days</p>
20				commercial deviation and accepted price loading for opting payment through Bank. Where to take this deviation in this tender ?	No deviation is allowed in this tender. Bidder is requested to follow the tender terms and conditions.

21				How to take Technical Deviation ? with/ without cost of withdrawal like in earlier tenders.	May clearly bring out the Technical Deviation for taking up with BHEL's Technical team. However, No deviation is allowed in GeM tender. Bidder is requested to follow the tender terms and conditions.
22			Page No.: 71/74 - Unpriced Bid Format in tech Sheet. Page No.: 72/74 - Priced Bid Format in tech Sheet.	price Excluding GST	to be read as Including GST. GeM bid prices to be quoted including GST only as clarified in Pre-bid meeting.
23	Cl.no. 6.2	6 of 12 of GeM bid	Buyer Added Bid Specific ATC-6.2 Guarantee period:	48 Months from the dispatch or 24 Months from the date of commissioning which ever is earlier.	48 Months from the respective item dispatch or 24 Months from the date of commissioning of respective DG Set which ever is earlier.

		<b>PROJECT : Patratu STPP (2X660 MW)</b> <b>PACAKGE :EPC</b> <b>Sub Package: Electrical Equipment Supply &amp; Erection</b> <b>CONTRACTOR : M/S BHEL</b> <b>CONT. NO. CS-9585-001-2</b>				<b>LIST OF ITEMS REQUIRING QP APPROVAL &amp; ACCEPTABLE VENDOR</b> <b>Contractor-M/S BHEL</b>			<b>REF NO : 9585-001-QOE-R-01</b> <b>REVISION NO. 00</b> <b>DATE 24<sup>th</sup> April 2017</b>	
SL No.	ITEM	QP / INS CAT	QP No:- 9578-001-QVE	QP SUB. SCH.	QP APP L SCH EDU LE	SUB-SUPPLIERS	PLACE	SUB-SUPPLIER APPL STATUS AS PER NTPC	SC AP PL SC HE DU LE	REMARKS

1.	Alternator	I	I			M/s Kirloskar Electric	Bangalore	A		415 V alternators
						M/s Cummins Generator Technology (Stamford )	U.K	A		415 V & 11kV alternators
						M/s Leroy Somer	France	A		Up to 11kV alternator 3500 kW
						M/s Marathan	USA	A		Alternators for up to 415 V, 1500 KVA DG SET
						M/s Cummins Generator Technology (Stamford )	Ahmednagar	A		415 V Alternators up to 1600 KVA
2.	Diesel engine	I	2			Toshiba	Chennai	DR		
						M/s Cummins	Pune	A		
						M/s Cater Pillar	USA	A		
						M/s Mitsubishi	Japan	A		Diesel engine for up to 1500 KVA DG SET
						M/s MTU	Germany	A		Diesel engine for up to 1500 KVA DG SET
3.	D G set (assembly testing ) @ subject to sub-QR clearance	I	3			M/s Perkins	UK	A		Diesel Engine for upto 2000KVA DG SET
						M/s TIL	Ghaziabad	A@		up to 1500 KVA
						M/s Kohler	Singapore	A@		Up to 1500 kVA , 11kV
						M/s CLLS	Singapore	A@		Up to 1250 kVA, 415 V,
						M/s Powerica	Silvassa	A@		Up to 2000 KVA, 415 V & 1500 KVA, 11 KV
						M/s Jakson	Kathua	A@		Up to 415 V, 2000 KVA
						M/s Sterling Generators Pvt Ltd	Silvassa	A@		For up to 415 V 1500 KVA
4.	DG Set acoustic enclosure	II				M/s Supernova	Rajpur	A@		
						DG Set supplier approved sources		Noted		


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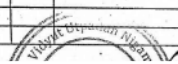


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5.	Battery charger (110V/220V) @ subject to sub-QR clearance	I	4			M/s Amararaja	Tirupati	A@		
						M/s HBL- Power System	Hyderabad	A@		
						M/s Chhabhi electrical	Jalgaon	A@		
						M/s. Chloride Power	Kolkatta	A@		
						M/s Statcon	Hapur	A@		Approved Up to 220, V 850 A subject to Sub-QR clearance, higher rating in DR
						M/s Dubas	Bangalore	A@		Approved upto 220 V, 850 A subject to Sub-QR clearance , higher rating in DR
						M/s Saft Nife Power Systems	Singapore	A@		
						Massteck	Jalgaon	A@		
6.	Battery ( Ni-Cd)	I	5			Emerson Network	Thane	DR@		
						Jema Energy	Spain	DR@		
						M/S HBL-Power System	Hyderabad	A @		Up to 990 Ah with conditions( Pocket plate type)
7.	Battery Plante	I	6			M/S Amcosoft	Bangalore	A @		8Ah to 990Ah- KPH type 10Ah to 1365 Ah- KPM type 11Ah to 1550Ah – KPL type (Pocket plate type)
						Hoppekke	Germany	A@		
						Exide	Kolkata	DR@		
						M/s Exide	Kolkata	A@		


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8.	Battery Health Monitoring System	I	7			Elteck	Gurgaon	DR		
						Emerson	Mumbai	DR		
						Hitachi Hirel	Gandhinagar	DR		
						HBL Power System	Hyderabad	A		
						Statcon	Hapur	DR		
						Hoppekke	Germany	DR		
9.	Fire Sealing System	III				M/s 3M India	Bangalore	A		
	i) Type - A material supplier					M/s GE Silicon	USA	A		
						M/s Dow Corning	USA	A		
	ii) Type - B Material supplier	III				M/s Lloyds	Delhi	A		
						M/s Signum	Nagpur	A		
						M/s Vijay System Engineers Pvt. Ltd.	Mumbai	A		
						M/s Multikil Fire	Vadodara	DR		
						Murugapa Morgan	Ranipet	DR		
						Unifrax India	AHMEDABAD	DR		
	iii) Execution Agency for above					Same as 9 (ii) & 3 M India	Same as 9 (ii) & 3 M India	A		
10.	GI cable trays, fitting	I				Inar Profiles Ltd	Enkapalli	A		


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	& accessories including bends					Vateco	Mumbai	A		Galvanization at Sigma Mumbai
						Indiana cable trays	Mumbai	A		Galvanization at Karamtara galvaniser
						Industrial Perforation	Kolkata	A		
						Ratan Engineering	Kolkata	A		Galvanization at B.P. Projects
						India Electric Syndicate	Kolkata	A		Galvanization at BMW Industries/B.P Projects
						Steelite engg.	Mumbai	A		
						Premier Power Products	Kolkata	A		Galvanising at Ncha Galvaniser
						Indiana Gratings	Pune	A		Galvanization at Poona Galvanizer/ Anand Yeknow Aids Engg
						M.J. Engineering	Okhla/ Bhiwadi	A		
						Jamna Metal	Delhi/ Kundli	A		
						T.R.G	Chennai	A		Galvanization at TM Radhakrishna Chetty & Co
						Amtech	Pune	A		Galvanization at B.G. Shirke - Pune
						Kannade Anand Udyog	Mumbai	A		Fabrication at their units: Plot No. 42, District Thane & Plot No.: D-35 Anand Nagar MIDC, Addl. Ambernath , Dist.Thane Galvanization and offer the galvanized cable trays for inspection at D-34 Anand Nagar MIDC, Addl. Ambernath, Dist.Thane.
						Rukmani	Raipur	A		Ladder type cable trays only
						Passive Infra	Hasangarh (Rohtak)	A		
						Unitech Fabricators &	Howrah/	A		


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						Engineers	Hoogly (Kolkata)			
						Patny System	Hyderabad	A		Galvanisation at Gurpreet galvaniser - Hyderabad
						Rabi Engg	Kolkata	A		Galvanizing from NTPC approved sources
						Advance Power Products	Howrah	A		
						Maheswari Electricals	Noida	DR		
						Saral Industries	Raibareli	DR		
						Parmar Metal	Rajkot	DR		
						Pentax	Mumbai	DR		
						Eros metal	Nagpur	DR		
						Vinfab	Thane	DR		
						Namdhari	Ludhiana	DR		
						Indmark Formtech	PUNE	DR		
						Valco	Mumbai	A		Galvanising at Sigma Mumbai
						Inar profiles	Enkapalli	A		
						Industrial perforations	Kolkata	A		
						Premier power products	Kolkata	A		Galvanising at Neha Galvaniser
						Steelite engg.	Mumbai	A		
						Indiana gratings	Pune	A		Galvanising at Poona Galvaniser
						Amtech	Pune	A		Galvanising at B.G. Shirke
						Ratan Projects	Kolkata	A		Galvanization at NTPC approved sources
						Indmark Formtech	PUNE	DR		
11.	Cable tray flexible support system (GI)	I	9			M/s PLICA	Ghaziabad	A		
12.	Lead coated steel flexible conduits	III				M/s Lapp	Germany	DR		
						M/s Bansal Labs	Bhopal	A		


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13.	Junction boxes / Link Boxes/ Test Link Box/ Adopter box, Switch Boxes, Pull Boxes (Hot Dip Galvanized)	III				Main contractor approved sources with galvanization from NTPC approved sources (Note-2)		Noted		
14.	FRP Junction boxes	II	10			Main Contractor approved sources		Noted		
15.	Cable termination kits & straight through jointing kit upto 33KV	I	11			M/s 3M Electro & Communication	Pune	A		up to 33 KV
						Raychem	Mumbai	A		Heat shrinkable type up to 33 KV
						Yamuna Cable Accessories	Yamunanagar	DR		
						Hari Consolidated Pvt Ltd	Delhi	A		Heat shrinkable type Upto 11 KV with conditions, above rating DR
16.	Cable glands	III				Main contractor approved sources		Noted		
17.	Cable lugs	III				M/s Dowell	Mumbai	A		
						M/s Billets Elektro Werke Ltd.	Umbergaon	A		





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						M/s Ajmera	Mumbai	A		
						M/s. Sakthi & Crown	Chennai	A		
						Additionally Any make's model with VDE or CE or UL or CSA marking or BIS approved with CML no		Refer Note-3		
23.	Lighting mast with raise & lower type lantern carriage	I	15			M/s Bajaj	Pune	A		
						M/s Skipper-	Howrah	A		
						M/s. B.P. Project,	Hoogly	A		
24.	Lighting pole / steel tubular pole	I	16			BIS licensee as per IS 2713 with valid CML number		A		
25.	Lighting poles polygonal type	I				M/s Bajaj	Pune	A		
						M/s B.P. Projects	Hoogly	A		
26.	PVC conduit/hume pipe/lighting wire/GI pipes/HIDPE pipe/Structural Steel	III				BIS licensee / ISI marked with valid CML number		A		
27.	GI steel rigid conduit/ epoxy conduit	III				BIS licensee with valid CML number		A		

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28.	Trefoil clamps/Earthing & Lighting Protection Material/Sheet Steel/ FRP cable trench cover/drum lifting jack/Earth wire/ FRP/Aluminum Ladder/Dimmer & Passive Infrared Sensors	III				Main Contractor Approved Sources		Noted		
29.	FAN with regulators & Exhaust Fan	III				M/s Crompton		Noted		
						M/s Orient				
						M/s Khaitan				
						M/s Polar				
						M/s GEC				
						M/s Havells				
						M/s Bajaj				
30.	FQP of DG Set Installation.	I	G-01							
31.	FQP of Cables & Accessories	I	G-02							

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32.	FQP of Earthing	I	G-03							
33.	FQP of Station Lighting	I	G-04							

NB:

Under Sub Supplier approval status as per NTPC column:

A: mean that vendor for this item is acceptable to NTPC.

Under QP / INSPN CATEGORY column:

CAT-I : For these items the Quality Plans approved by NTPC & final acceptance will be on physical inspection & witness by NTPC

CAT-II : For these items the Quality Plans approved by NTPC. However no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on basis of verification of documents as per approved QP

CAT-III : For these items Main supplier approves the Quality Plans. The final acceptance by NTPC shall be on basis of certificate of conformance by the main supplier.

@ : Vendors acceptance is subject to sub-QR clearance.

Note-1- Approval conditions attached to above identified vendors, as applicable shall be adhered to.

Note-2 – List of NTPC acceptable galvanizers