5 X 800 MW YADADRI TPS

DC LEAD ACID BATTERIES

BOQ-CUM-UNPRICE SCHEDULE

ENQUIRY NO: PE/PG/YAD/E-6179/2019 dated 17.04.2019

										FOR INDIAN BIDDER								FOR FOREIGN BIDDER	
S No.	**Item code**	**Item Description**	**Unit**	**HSN CODE**	**Order QTY. For STAGE-I(Unit 1&2)+ STAGE-2(Unit-3,4&5)**	**Quantity For STAGE-I(Unit 1&2)**	**Quantity For STAGE-2(Unit-3)**	**Quantity For STAGE-2(Unit-4)**	**Quantity For STAGE-2(Unit-5)**	**Unit Ex Works price (Duly Packed) (INR)**	**Total Ex Works price (Duly Packed) (INR)**	**Freight Charges (11)**		**Total Prices (Ex Works+ Freight) (INR)**	**Applicable GST Rate in % on(Total Ex Works + Freight) Both (INR) (13)**		**Total F.O.R prices with taxes (INR)**	**Unit C&F Mumbai Port Price (Currency)**	**Total C&F Mumbai Port Price (Currency)**
												% of Total Ex Works	**Amount in (INR)**		**GST Rate in % on (Total Ex Works +Freight)**	**Total Amount in(INR)**			
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**			**9**	**10=6*9**	**11A**	**11B=11A*10**	**12=10+11B**	**13A**	**13B=13A*12**	**14=12+13B**	**15**	**16**
(A1)	**MAIN ITEMS**																		
1.0	**508-11013-A**	**220V BATTERY (MAIN PLANT)**	Set		10	4	2	2	2										
		Break up detail																	
1.01		220V DC, AH capacity to be decided by bidder as per Annexure-I of Section-I, 1.8 ECV, 108 cells, Lead-Acid plante High discharge type battery with all accessories listed as 1.1 below.	Set	8507	10	4	2	2	2										
1.02		Electrolyte (sulphuric acid for first filling plus 10% extra in non-returnable container)	Set	2807	10	4	2	2	2										
1.03		FRP rack properly treated with three coats of anti-acid paints for acid resistance for 220V battery bank	Set	9090	10	4	2	2	2										
1.04		Insulators with 5% extra, rubber pad etc. for rack	LOT	4415	10	4	2	2	2										
1.05		One set of inter cell, inter tie and inert bank connectors required for complete installation.	LOT	8507	10	4	2	2	2										
1.06		Teakwood Cable clamps with hardware/ cable supporting arrangement having L Type copper connectors	LOT	8507	10	4	2	2	2										
1.1.0		**LIST OF ACCESSORIES (for each set of battery)**																	
1.1.1		Rubber hand gloves	Pair	4015	2	2	2	2	2										
1.1.2		Spanner for cells	Nos	8204	1	1	1	1	1										
1.1.3		Hydrometer (in step of 0.005)	Nos	9025	1	1	1	1	1										
1.1.4		Thermometer with pug and cap with gravity correction scale	Nos	9025	2	2	2	2	2										
1.1.5		Digital cell testing votmeter (3-0-3 V)	Nos	9030	2	2	2	2	2										
1.1.6		Cell lifting straps	Set	8507	2	2	2	2	2										
1.1.7		Bridging clamps	Set	8507	2	2	2	2	2										
1.1.8		Goggles (Industrial)	Nos	9003	1	1	1	1	1										
1.1.9		Instruction Card	Nos	4901	2	2	2	2	2										
1.1.10		Battery log book	Nos	4901	1	1	1	1	1										
1.1.11		Electrolyte resistant plastic funnels	Nos	3924	2	2	2	2	2										
1.1.12		Electrolyte resistant plastic Jugs	Nos	3924	2	2	2	2	2										
1.1.13		Plastic filling bottles	Nos	3924	2	2	2	2	2										
1.1.14		Self-adhesive PVC stickers for cell numbering	Set	8507	1	1	1	1	1										
1.1.15		Pocket Thermometer (digital Type)	Nos	9025	3	3	3	3	3										
1.1.16		**Set of hydrometer syringes (suitable for the vent holes in different cells for specific gravity reading)**	Set	9025	1	1	1	1	1										
1.1.17		**Rubber apron**	Nos	4015	2	2	2	2	2										
1.1.18		**No smoking notice**	Nos	3926	2	2	2	2	2										
1.2		**Accessories (for entire 5 unit)**																	
1.2.1		Battery trolley (for entire 5 unit)	Nos	8427	3	1	2												
1.2.2		Hot air gun (for entire 5 unit)	Nos	8424	2	1	1												
1.2.3		Siphon (for entire 5 unit)	Nos	3924	2	1	1												
2.0	**508-11007-A**	**E & C SPARES**																	
2.1		GLOVES	Pair	4015	10	4	2	2	2										
2.2		VENT PLUGS	Nos	8507	25	10	5	5	5										
2.3		Intercell connectors	Nos	8507	25	10	5	5	5										
3.0	**508-11025-A**	**SUPV.OF E&C**																	
3.1		LUMP SUM CHARGES PER VISIT FOR ENGINEER (EXCEPT DAILY CHARGES)	VISIT	9987	5	TOTAL QUANTITY FOR BOTH STAGES(STAGE-1&2)													
3.2		LUMP SUM DAILY CHARGES FOR ENGINEER	DAYS	9987	20	TOTAL QUANTITY FOR BOTH STAGES(STAGE-1&2)													
4.0	**508-11029-A**	**TYPE TEST**																	
4.1		Ampere hour & watt hour efficiency test	LOT	9987	1	TOTAL QUANTITY FOR BOTH STAGES(STAGE-1&2)													
4.2		Test for retention of charge	LOT	9987	1	TOTAL QUANTITY FOR BOTH STAGES(STAGE-1&2)													
4.3		Capacity test and test for voltage on battery during discharge **(To be carried out at site on completion of E&C and immediately prior to putting battery in service)**	SET	9987	10	TOTAL QUANTITY FOR BOTH STAGES(STAGE-1&2)													
4.4		Endurance test	LOT	9987	1	TOTAL QUANTITY FOR BOTH STAGES(STAGE-1&2)													
4.5		Capacity test and test for voltage on battery during discharge / Discharge performance test at low temperature	LOT	9987	1	TOTAL QUANTITY FOR BOTH STAGES(STAGE-1&2)													
5.0	**508-11029-A**	**MANDATORY SPARES**																	
5.1		Battery Cell (Uncharged, Dry) of AH capacity decided by bidder as per Annexure-II of Sec-I of Spec (per bank)	* Nos (per bank)	8507	40	20	20												
5.2		Intercell connectors with hardware	Nos	8507	40	20	20												
5.3		Vent plug	Nos	8507	40	20	20												
5.4		Teakwood Cable clamps with hardware/ cable supporting arrangement having L Type copper connector	Nos	8507	20	10	10												
5.5		Hydrometer (in steps of 0.005)	Nos	9025	2	1	1												
5.6		Pair of rubber hand gloves	Pair	4015	2	1	1												
5.7		Cell testing digital voltmeter (3-0-3V) with testing leads, (Center zero type)	Nos	9030	2	1	1												
5.8		Insulated socket spanner with handle	Nos	8204	4	2	2												
5.9		Thermometer (Digital type)	Nos	9025	2	1	1												
	NOTE :																		

a)	Each set / lot mentioned against item at S.no 1.02,1.03,1.04,1.05 & 1.06 corrseponds to the required quantity for 1 set of item at S.no 1.01.
b)	* : For parallel banks, number of mandatory spares shall accordingly get multiplied & same to be quoted by bidder.
c)	AMOUNT PAYABLE FOR ENGINEER PER VISIT TO SITE = VISIT CHARGES AS PER SL. NO. 3.1 ABOVE + (DAILY CHARGES AS PER SL. NO. 3.2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE).
d)	THE VISIT CHAGRES SHALL BE INCLUSIVE OF CHARGES OF AIR FARE/TRAIN FARE , BOARDING/LODGING, LOCAL CONVEYANCE, MEDICAL , INSURANCE ETC.
e)	COPPER LUGS FOR CABLE TERMINATION AT BATTERY TERMINALS SHALL BE IN BIDDER'S SCOPE & CABLE SIZES SHALL BE INFORMED DURING DETAILED ENGINEERING.