

MAIN SHEET											
NAME OF PROJECT: 5X800 MW TSGENCO YADADRI TPS NAME OF PACKAGE: CHEMICAL DOSING SYSTEM TECHNICAL SPECIFICATION:PE-TS-417-154-A001										All Prices are in INR	
S. No.	DESCRIPTION	HSN CODE	UNIT	TOTAL QTY (stage-I & stage-II)	TOTAL EX-WORK PRICE INCLUDING PACKING AND FORWARDING CHARGES	FREIGHT AMOUNT	GST RATE IN % ON (TOTAL EX-WORKS+FREIGHT)	TYPE OF GST APPLICABLE (IGST/ (CGST + SGST)/ UTGST)	TOTAL GST AMOUNT	TOTAL F.O.R SITE PRICE	TOTAL F.O.R SITE PRICE IN WORDS
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART & MANDATORY SPARES , design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables (excluding chemicals), Mandatory spares, startup and commissioning spares , forwarding, proper packing, shipment and delivery at site including supervision of commissioning by experience/capable engineer for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.		Set	1			---	---			
2.0	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.										
2.1	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART comprising of design (i.e.preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables (excluding chemicals), startup and commissioning spares , forwarding, proper packing, shipment and delivery at site for project and package specified above complete with all accessories for following items for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up of prices as per Annexure I).	84041000	Set	1							
2.2	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per tender technical specification above, amendment & agreements till placement of order. (Price break up of Mandatory spares is to be furnished as per Annexure- II).	84041000	Set	1							
2.3	Supervision of Commissioning (By Experienced/Capable Engineer). Lump sum supervision charges for Total ten (10) days in five (5) visits {one (1) Visit per unit for Two Days } (inclusive of charges of Air-Fare/Rail-Fare, Boarding/Lodging Local conveyance/medical/Insurance/etc). (Price break up for Supervision of Commissioning is to be furnished as per Annexure-III).	998732	Lot	1							

											(ANNEXURE-II)
											LIST OF MANDATORY SPARES
NAME OF PROJECT: 5X800 MW TSGENCO YADADRI TPS											All Prices are in INR
NAME OF PACKAGE: CHEMICAL DOSING SYSTEM											
TECHNICAL SPECIFICATION: PE-TS-417-154-A001											
S. N.	DESCRIPTION	UNIT	QUANTITY (For Complete Station)	TOTAL EX-WORK PRICE INCLUDING PACKING AND FORWARDING CHARGES	FREIGHT % OF TOTAL EX-WORKS	FREIGHT AMOUNT	GST RATE IN % ON (TOTAL EX- WORKS+FREIGHT)	TYPE OF GST APPLICABLE (IGST/ CGST + SGST/ UTGST)	TOTAL GST AMOUNT	TOTAL F.O.R SITE PRICE	TOTAL F.O.R SITE PRICE IN WORDS
2.2.1	Mechanical Items --- Piston Ring (Guide Ring) `	Sets.	4 Sets for each type and Duty of Pump								
2.2.2	Mechanical Items --- Piston (Plunger)	Sets.	4 Sets for each type and Duty of Pump								
2.2.3	Mechanical Items --- Seals and other Wear out Part	Sets.	2 Sets for each type and Duty of Pump								
2.2.4	Mechanical Items --- Complete Set of Bearings	Sets.	2 Sets for each type and Duty of Pump								
2.2.5	Mechanical Items --- Crank Shaft	Sets.	2 Sets for each type and Duty of Pump								
2.2.6	Mechanical Items --- Cross Head Assembly	Sets.	2 Sets for each type and Duty of Pump								
2.2.7	Mechanical Items --- Connecting Rod Plate	Sets.	2 Sets for each type and Duty of Pump								
2.2.8	Mechanical Items --- Complete Set of Valves	Nos.	20% of the total quantity for each type and Size or Minimum 2 Nos whichever is higher used for one unit.								
2.2.9	Mechanical Items --- Strainer	Nos.	2 Nos. for each type, size and duty.								
2.2.10	Electrical Items--- Complete Set of Motor	Nos.	2 Nos. for each type, Duty and application								
2.2.11	Electrical Items--- Driving End & Non-Driving End Bearing	Sets.	6 Sets for each type and rating of Motor								
2.2.12	Electrical Items--- Motor Terminal Block	Nos.	10 Nos. for each type and rating of Motor								
2.2.13	Electrical Items--- Complete Set of Coupling	Set.	2 Set for each Application								
2.2.14	C&I Spares--- Transmitters/ Gauges/Switches etc. along with relevant accessories	Nos.	20% of total or at least 2 Nos (whichever is higher) for Each type along with accessories used for one unit.								
2.2.15	Solenoid Valves---Solenoid Valve Coil	Nos.	4 nos. of each rating & insulation								
2.2.16	Solenoid Valves---Plunger	Nos.	2 nos. of each type								
2.2.17	Solenoid Valves---Seat	Nos.	4 nos. of each type & size								
2.2.18	Solenoid Valves---Gaskets	Sets.	4 sets of each type & size								
2.2.19	Solenoid Valves---O-Ring set	Sets.	10 sets of each type & size								
2.2.20	Process Connection Piping (Impulse piping/tubing, sampling piping /tubing & air supply piping as applicable)---Valves of all types	Nos.	20% of each type, class, size & model used in one unit.								
2.2.21	Process Connection Piping (Impulse piping/tubing, sampling piping /tubing & air supply piping as applicable)---Valve Manifolds (2 way/3 way/5 way)	Nos.	20% of each type, class, size & model used in one unit.								
2.2.22	Process Connection Piping (Impulse piping/tubing, sampling piping /tubing & air supply piping as applicable)---Fittings	Nos.	20% of each type, class, size & model used in one unit.								
2.2.23	Control panel/Desktop---Back-up panel mounted devices (Selector switches/ Push buttons/ Indicators etc.)	Nos.	10% of installed capacity used in one unit.								
2.2.24	Control panel/Desktop---Lamps/ LEDs	Nos.	200% of the total quantity used in one unit.								
2.2.25	Control panel/Desktop---Blank Tiles	Nos.	20% of installed capacity used in one unit.								
2.2.26	Control panel/Desktop---MCBs	Nos.	20% of each type & rating used in one unit.								
2.2.27	Control panel/Desktop---Fuses/ Fuse holder	Nos.	200% of each type & rating used in one unit.								
2.2.28	Alarm/ Annunciation system---Each type of module	Nos.	2 Nos. for each type and rating.								
2.2.29	Alarm/ Annunciation system---Lamp box with Facia & Lamps (LED type)	Nos.	20% of total quantity or minimum 20 Nos installed in one unit.								
2.2.30	Alarm/ Annunciation system---Hooter	Nos.	2 Nos.								

ANNEXURE-III

NAME OF PROJECT: 5X800 MW TSGENCO YADADRI TPS												
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TECHNICAL SPECIFICATION: PE-TS-417-154-A001												
All Prices are in INR												
S. No.	DESCRIPTION	UNIT	STAGE-I QUANTITY (Unit-1 & 2) (NOS.)	STAGE-II QUANTITY (Unit-3,4 & 5) (NOS.)	TOTAL QTY (stage-I & stage-II)	UNIT PRICE EX- WORKS	TOTAL EX- WORK PRICE	GST RATE IN % ON TOTAL EX-WORKS	TYPE OF GST APPLICABLE (IGST/ (CGST + SGST)/ UTGST)	TOTAL GST AMOUNT	TOTAL F.O.R SITE PRICE	TOTAL F.O.R SITE PRICE IN WORDS
2.3	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SERVICES PART comprising of Supervision of Commissioning (By Experienced/Capable Engineer). Lump sum supervision charges for Total ten (10) days in five (5) visits (one (1) Visit per unit for Two Days) (inclusive of charges of Air-Fare/Rail Fare,Boarding/Lodging Local conveyance/medical/Insurance/etc).	Lot	---	---	1	---						
2.3.1	LUMP SUM CHARGES PER VISIT FOR ENGINEER INCLUDING TRAVEL CHARGES (EXCEPT DAILY CHARGES)	Visit	2	3	5							
2.3.2	LUMP SUM DAILY CHARGES FOR ENGINEER	Days	4	6	10							
Note: 1. AMOUNT PAYABLE FOR ENGINEER PER VISIT TO SITE =VISIT CHARGES AS PER SL. NO. 2.3.1 ABOVE + (DAILY CHARGES AS PER SL.NO. 2.3.2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE). 2. Lump sum visit charges shall be inclusive of travelling (Air Fare/Rail Fare) and Lump sum daily charges shall be inclusive of boarding/lodging, local conveyance, medical, insurance etc												