

SUGGESTED PRICE FORMAT		Doc No:	PE-PF-417-166-A001	
		Rev No:	0	
		Date of issue	10.05.2020	
NAME OF PROJECT:		5X800MW YADADRI TPS		
NAME OF PACKAGE:		FUEL OIL HANDLING SYSTEM		
TECHNICAL SPECIFICATION:		PE-TS-417-166-A001		
S. No.	DESCRIPTION	UNIT	QTY	HSN code
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for Supply part, Services part and Mandatory spares 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, chemicals, reagents and consumables required for pre-commissioning, commissioning , performance testing and till one year of operation after handing over, mandatory spares alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation & storage at site, in-site transportation, assembly, erection & commissioning, final painting at site, obtaining CCOE approval, minor civil work, trial run at site and carrying out Performance guarantee / Functional / Demonstration tests at site (As applicable), training of customer/client O&M staff and OPERATION AND MAINTENANCE SERVICE including manpower, supervision, consumables etc for operation & maintenance of fuel oil handling system for 12 months after commissioning, till handing over (after O & M service) in flawless condition of the package complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order.	Lot	1	
2	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, obtaining CCOE approval, maintenance tools & tackles (as applicable), fill of lubricants, chemicals, reagents and consumables required for pre-commissioning, commissioning , performance testing and till one year of operation after handing over,alongwith spares for erection as required, startup and commissioning spares as required, forwarding, proper packing, shipment and delivery at site for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order. (Break-up as per Annexure-I)	Lot	1	8413 60 20
2.2	Total lumpsum firm prices inclusive of all prevailing taxes, duties and other levies for Services part comprising of unloading, handling, transportation & storage at site, in-site transportation, assembly, erection & commissioning, final painting at site, minor civil work, trial run at site and carrying out Performance guarantee / Functional / Demonstration tests at site (As applicable), training of customer/client O&M staff for project and package complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order.	Lot	1	998871
2.3	Total lumpsum 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)	Lot	1	8413 91 90
2.4	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for providing OPERATION AND MAINTENANCE SERVICE including manpower, supervision, consumables etc for operation & maintenance of fuel oil handling system for 12 months after commissioning, till handing over (after O & M service) in flawless condition with all accessories for the total scope defined as per technical specification.	Months	12	998871
Notes: 1.) PG to consider and suitably incorporate taxes, duties and other commercial aspects. 2.) Bidder to quote the Prices in 'figures' along with corresponding 'words'. 3) No. of months as mentioned at 2.4 above may vary, depending upon site requirement. Any variation in no. of months shall be exercised based on unit rate arrived				
Particulars of bidder / authorised representative				
Name	Designation	Signature	Date	Company Seal

SUGGESTED PRICE FORMAT ANNEXURE-I		Doc No:	PE-PF-417-166-A001
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S. No.	Description	UNIT	QTY
BREAK-UP OF SUPPLY PRICES GIVEN IN 2.1 OF MAIN SHEET.			
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, chemicals, reagents and consumables required for pre-commissioning, commissioning , performance testing and till one year of operation after handing over,alongwith spares for erection as required, startup and commissioning spares as required, forwarding, proper packing, shipment and delivery at site for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order.	Lot	1
2.1.1	Lump sum price for steel plates for HFO Tanks, LDO tanks Including floor coil heater	Lot	1
2.1.2	Lump sum price for structural steels including flanges, hand rails, gratings etc for FOHS.	Lot	1
2.1.3	HFO Unloading Pumps (150 cum/hr) cum with motor	Nos.	5
2.1.4	Strainers for HFO Unloading Pumps(150 cum/hr)	Nos.	5
2.1.5	HFO Unloading Pumps (25 cum/hr) cum with motor	Nos.	2
2.1.6	Strainers for HFO Unloading Pumps(25 cum/hr)	Nos.	2
2.1.7	HFO Unloading Pumps (50 cum/hr) cum with motor	Nos.	3
2.1.8	Strainers for HFO Unloading Pumps(50 cum/hr)	Nos.	3
2.1.9	LDO Unloading Pumps (50 cum/hr) with motor	Nos.	3
2.1.10	Strainers for LDO Unloading Pumps (50 cum/hr)	Nos.	3
2.1.11	Drain Oil Pump with motors	Nos.	2
2.1.12	Recovery Oil Pump with motors in Oil Pit of OWS	Nos.	2
2.1.13	Sump Pumps with Motors in Pump House	Nos.	2
2.1.14	Sump Pumps with Motors in Unloading Area	Nos.	2
2.1.15	Suction Heater in HFO tanks	Nos.	4
2.1.16	Drain Oil Tank with floor coil heater	No.	1
2.1.17	Flash Tank	No.	1
2.1.18	Pressure Reducing and Desuperheating station complete in all respect	No.	1
2.1.19	Lump sum price for Control valves for Suction heater, floor coil heater and Drain oil tank	Lot	1
2.1.20	HFO & LDO flexible metallic / neoprene unloading hoses with all accessories	Nos.	115
2.1.21	Steam Hoses for with all accessories	Nos.	5
2.1.22	Condensate Hoses with all accessories	Nos.	5
2.1.23	Lump sum price for Inverted Bucket / Float Type Steam Trap	Lot	1
2.1.24	Lump sum price for TD Type Steam Trap	Lot	1
2.1.25	Lump sum price for Manual Valves in FOHS	Lot	1
2.1.26	Lump sum price for Motorized Valves in FOHS	Lot	1
2.1.27	Lump sum price for Instruments	Lot	1
2.1.28	Flowmeter in HFO and LDO lines	Lot	1
2.1.29	Lump sum price for Insulation & Cladding	Lot	1
2.1.30	Lump sum price for Painting	Lot	1
2.1.31	Lump sum price for Equipment and accessories of OWS excluding items covered above.	Lot	1
2.1.32	Lumpsum firm price of maintenance tools & tackles, fill of lubricants & consumables alongwith spares for erection as required, startup and commissioning spares as required or any other item not covered above but required for successful completion of Fuel oil unloading & storage package as per system requirement.	Lot	1
Notes:			
1.) PG to consider and suitably incorporate taxes, duties and other commercial aspects.			
Particulars of bidder / authorised representative			
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SUGGESTED PRICE FORMAT ANNEXURE-II LIST OF MANDATORY SPARES		Doc No:	PE-PF-417-166-A001
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TECHNICAL SPECIFICATION:		PE-TS-417-166-A001	
S. No.	DESCRIPTION	QTY	
1.0	Tanks & Pumps		
1.1	Suction Heater Gaskets		
1.1.1	For LDO/HFO Tanks	8 sets	
1.2	Suction Heater Nuts and Bolts		
1.2.1	For LDO/HFO Tanks	2 Lot	
1.3	Pump suction Strainer Basket	6 Nos. for each type	
1.4	Pump suction Strainer Gasket	12 Nos. for each type	
1.5	Pump O-Ring and Gasket	24 Nos. for each type	
1.6	Various types of Gland packing for valves	2 Lot for each type	
1.7	Pump Screw	6 Nos. for each type	
1.8	Pump and Motor Bearing		
1.8.1	For HFO & LDO transfer pump	8 sets for each pump	
1.8.2	For Drain Oil Pump	4 sets	
1.9	Relief Valve Spring		
1.9.1	For HFO & LDO transfer pump	6 nos.	
1.9.2	For Drain Oil Pump	6 nos.	
1.10	Suction Heater Heating Element	2 No.	
1.11	Mat Coil Heater – Heating Element	4 sections	
1.12	Thermodynamic traps	10 Nos.	
1.13	Inverted Bucket type traps	4 Nos.	
2.0	Electrical Items		
2.1	415 Volt Motor (above 30KW Rating)		
2.1.1	End Shield Cover Driving & Non-Driving End	2 Set for each type and rating of Motor	
2.1.2	Driving End & Non-Driving End Bearing	2 Set for each type and rating of Motor	
2.1.3	Cooling Fan	2 No. for each type and rating of Motor	
2.1.4	Motor Space Heater	2 No. for each type and rating of Motor	
2.1.5	Motor Terminal Block	2 No. for each type and rating of Motor	
2.1.6	Complete Set of Coupling	2 Set for each Application	
2.2	415 Volt Motor (Upto 30KW Rating)		
2.2.1	Driving End & Non-Driving End Bearing	6 Set for each type and rating of Motor	
2.2.2	Cooling Fan	4 No. for each type and rating of Motor	
2.2.3	Motor Terminal Block	10 No. for each type and rating of Motor	
2.2.4	Complete Set of Coupling	2 Set for each Application	
2.3	Lugs & Glands		
2.3.1	Glands & Lugs	40% of each type, size & rating of cables	
2.4	Actuator		
2.4.1	Complete set of Actuator	2Nos. for each type and rating	
2.4.2	Limit Switch	6 Nos each type and rating	
2.4.3	Torque Switch	6 Nos each type and rating	
2.4.4	Auxiliary Contact	2 nos each type and rating	
2.4.5	Motor	2 nos each type and rating	
2.4.6	Complete Seal kit	2Sets for each type and rating	
2.4.7	Complete O-Ring Set	2Sets	
2.4.8	Electronic Card	Two(2) for each type/make	
2.4.9	Feedback Assembly (4-20mA) for Inching type	Two(2) for each type/make	

3.0	C&I Items	
	The Bidder shall offer mandatory spares of the same make, model and type for items which are offered in the main offer. Further, offered spare parts shall be of the same grade and shall have same performance as the instruments which they are to replace.	
3.1.	Field Instruments	
3.1.1.1	Transmitters/ Gauges/Switches etc. along with relevant accessories	20% of total or at least four (whichever is higher) for each type along with accessories.
3.1.1.2	Temperature Element (RTD/Thermo-couple) with thermowell	20% of each type , range and immersion length . Minimum 10 nos.
3.1.2	HFO/LFO Oil meter	
3.1.2.1	Sensor	2 nos. each for each type, model & range
3.1.2.2	O Rings	4 nos. of each size
3.1.2.3	Gaskets	6 nos. of each size
3.2	Control Valves	
3.2.1	Pneumatic Control Valves & Block Valves	
3.2.1.1	Plot Relay	2 sets for each valve
3.2.1.2	Actuator Diaphragm	2 nos.for each valve
3.2.1.3	Feedback Linkage	2 nos.for each valve
3.2.1.4	Smart Positioners	20% of total quantity of each model/type
3.2.1.5	I/P Converters (If any)	20% of total quantity or minimum 30 nos.
3.2.1.6	Complete Consumables for Valve Viz. O- ring, Gland Packing, Packing Ring, Bonnet Seal etc	4 Sets each size, rating, type
3.2.1.7	Valve Disc	4 Sets each size, rating, type
3.2.1.8	Valve Spindle	4 Sets each size, rating, type
3.2.1.9	Valve Seat	4 Sets each size, rating, type
3.2.1.10	Bush	4 Sets each size, rating, type
3.2.1.11	Guide	4 Sets each size, rating, type
3.2.1.12	Guide Bush	4 Sets each size, rating, type
3.2.1.13	Coupling Nut	4 Sets each size, rating, type
3.2.1.14	Actuator Piston with Rod & Seal	4 Sets each size, rating, type
3.2.1.15	Control valve stem packing and spare operator moulded rubber diaphragms	2 sets for each size, rating, type
3.2.1.16	Valve trim (including cage, plug, stem, seat rings, guide bushings etc.) for each of the control valves as offered.	2 sets for each size, rating, type
3.2.1.17	Solenoid valves, position transmitters, limit switches, I/P convertors, positioners etc of each type	20% of total quantity spare with minimum 2 no. for each size, rating, type
3.2.2	Solenoid Valves	
3.2.2.1	Solenoid Valve Coil	4 nos. of each rating & insulation
3.2.2.2	Plunger	2 nos. of each type
3.2.2.3	Seat	4 nos. of each type & size
3.2.2.4	Gaskets	4 sets of each type & size
3.2.2.5	O-Ring set	10 sets of each type & size
3.3	Process Connection Piping (Impulse piping/tubing, sampling piping / tubing & air supply piping as applicable)	
3.3.1	Valves of all types	20% of each type, class, size & model
3.3.2	Valve Manifolds (2 way/3 way/5 way)	20% of each type, class, size & model
3.3.3	Fittings	20% of each type, class, size & model
3.3.4	Filter Regulators	40% of each model

3.4	Junction Box		
3.4.1	Junction box	20% of total quantity for each size but minimum 2 nos.	
3.4.2	Terminals in Terminal blocks	20 nos. of each type	
Note:			
i)	Mandatory spares listed above are bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender specification apart from specified above, same shall be deemed to have been covered in bidder's scope of supply.		
ii)	“One (1) Set” and “One (1) set of each type & rating” is defined as total numbers as required for one complete replacement for one equipment of similar size & capacity.		
iii)	In case any spare indicated in the specification is “not applicable” for particular equipment, then suitable applicable alternate spare shall be supplied by the bidder without any financial implication."		
iv)	For quantities indicated in percentage, fractions are to be rounded-off to next higher integer.		
v)	Bidder to write “Quoted / Not Applicable” against all items. Any item which is quoted as “not applicable” by the bidder in the above list and is found to be “applicable” at a later date shall be supplied by the bidder without any commercial and delivery implication.		
vi)	Any cell left blank in the unpriced schedule shall be treated as “Quoted” and is included in total price.		
vii)	Bidder to note that even though there may be some spares which are repetitive at various sl.no mentioned above, bidder to ensure that prices are quoted against each sl.no. In case any cell is left blank in the unpriced schedule shall be treated as "quoted" and included in total price.		
Particulars of bidder / authorised representative			
Name	Designation	Signature	Date
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Commissioning Spares
Break up price for COMMISSIONING SPARE

Sl.no	Descripti on of Item	Qty.	Unit	Unit price (Ex works) INR	Total Ex- Works Prices duly packed INR

NOTE -

Bidder shall furnish unit price of Commissioningspares in above format
alongwith the Bid.