

PRICE FORMAT FOR INDIAN BIDDERS FOR ETP OF 4X270 MW BHADRADRI TPS													
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT (ENQUIRY NO-PE/PG/MG1/E-5846/2017 DTD 06/02/2018)			SUPPLY					E & C		GRAND TOTAL	
TECHNICAL SPECIFICATION:PE-TS-411-164-A001		HSN/ SAC CODE	UNIT	QTY	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	Type of GST [(CGST + (SGST/UTGST)) or IGST	Freight Charges INR	TOTAL FOR SITE PRICE EXCLUDING GST	Total E&C CHARGES Excluding GST (INR)	Type of GST [(CGST + (SGST/UTGST)) or IGST	TOTAL LUMPSUM PRICE FOR SUPPLY and E&C Excluding GST (INR)	GRAND TOTAL IN WORDS
S. No.	DESCRIPTION				1	2	3	4	5=2+4	6	7	8=5+6	
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART , SERVICES PART & 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 & consumables, chemicals as specified, 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, minor civil works, erection & commissioning, trial run at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee (Functional / Demonstration tests at site (As applicable),training of customer/ client O&M staff (if applicable) & final handing over to end customer in flawless condition 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, chemicals as specified, alongwith spares for erection , startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable) 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.	8421 2190	Set	1						NA			
2.2	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for the SERVICES PART comprising of unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, final painting at site, trial run at site and carrying out performance guarantee/Functional / Demonstration tests at site (As applicable), training of customer/ client O&M staff (if applicable) & final handing over to end customer in flawless condition 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.	999 433	Set	1			NA						
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- I).	8421 2190	Lot	1						NA			
NOTE	1.CGST/SGST/IGST/IGST shall be paid at actuals against documentary evidence but restricted to the amount and percentage in the order/contract as per GST against HSN code. 2.PRICES SHALL BE FIRM UNLESS OTHERWISE SPECIFICALLY INDICATED IN NT . 3. In case, any GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry to timeline prescribed in the relevant Act for availing such ITC, or any other reasons not attributable to BHEL, tax amount shall be recoverable from the vendor/contractor along with interest levied/leviable on BHEL. 4. All taxes and duties other than CGST/SGST/IGST/IGST shall be deemed to be included in the Ex-Works prices unless specified otherwise by the bidder in the price bid. No variation in other taxes and duties shall be payable by Purchaser. 5. Evaluation shall be done on the basis of total lump sum prices for complete supply and services excluding GST. 5. Vendor to quote prices in words also.												

SUGGESTED PRICE FORMAT ANNEXURE-I LIST OF MANDATORY SPARES		Doc No:	PE-PF-411-164-A001			
		Rev No:	0			
		Date of issue	05.02.2018			
NAME OF PROJECT:		4X270 MW BHADRADRI TPS				
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT				
TECHNICAL SPECIFICATION:		PE-TS-411-164-A001				
S. N.	DESCRIPTION	UNIT	QTY	Unit Ex-works (INR)/C&F	Total Ex-works (INR)/C&F	
1	VERTICAL SUMP PUMPS – (FOR EACH TYPE AND SIZE)					
i	Complete Casing including suction (if applicable) bell	Set	1			
ii	Impeller	Set	1			
iii	Impeller key	Number	1			
iv	Wearing rings (Impeller & Casing ; as applicable)	Set	2			
v	Impeller Shaft, line shaft and head shaft	Set	1			
vi	Shaft Sleeves	Set	2			
vii	Stuffing box	Set	1			
viii	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards.	Set	1			
ix	Line Shaft Couplings (if applicable)	Set	1			
x	Impeller, Line and Head shaft bearings (as applicable)	Set	1			
xi	Gland Packing & Gland Assembly	Set	1			
xii	Mechanical seal as applicable	Set	1			
2	AGITATORS (FOR EACH TANK AS APPLICABLE)					
i	Agitator Assembly with Gear Box	Set	1			
3	MOTOR					
i	Motor bearing for each type of pump	Set	1			
4	MANDATORY SPARES FOR CONTROL SYSTEM AND MEASURING INSTRUMENTS					
4.1	Mandatory Spares for Temperature Elements and Thermowells					
4.1.1	Thermocouple / RTD elements (10% of each type and length of elements, or a minimum of one number, whichever is more.)	Lot	2			
4.1.2	Thermowells for each type of temperature sensors (10% or a minimum of one for each type, whichever is more.)	Lot	2			
4.2	Mandatory Spares for Electronic Transmitters (for pressure, DP, Flow, level, Temperature) and Electrical Transducers.					
4.2.1	Transmitters and Electrical Transducers (10% of total number of offered for each model and type for the project or a minimum of one number, whichever is more)	Lot	2			
4.3	Mandatory spares for local gauges/switch (for Pressure, DP, Temperature, Flow, level, etc.)					
4.3.1	Local gauges/ Switch (for Pressure, DP, Temperature, Flow, level, etc.) (10% of total number of instruments offered for each model and type for the project or a minimum of one number, whichever is more.)	Lot	2			
4.4	Programmable Logical Control (PLC)					
4.4.1	Function controller and control modules (10% of number for each type or minimum of 4 number for each type whichever is high.)	Lot	2			
4.4.2	Process I/O cards and drive modules (10% of the number of cards offered for the project from each category.)	Lot	2			
4.4.3	All other type of electronic modules like CPU of workstation, Power supply modules, communication modules, modules for Data highway / modules for LAN, controllers not covered above (10% of each type or minimum of 2 nos. of each type whichever is more).	Lot	2			
4.4.4	All cards, controllers, lamp and other components used in LVS.	Lot (10%)	2			
4.4.5	Control logic power supply fuses at each current rating (Three times the one hundred percent spare replacement).	Lot	2			
4.4.6	Electric to pneumatic converters (10% of each type utilized with automatic control system using pneumatic drives or a minimum of one of each type, whichever is more.)	Lot	2			
4.4.7	Plug-in type keyboard	2 No. of each type				
4.4.8	Dot matrix Printer	No.	2			
4.4.9	CRT	No.	2			
4.4.10	DVDs	Nos.	40			
4.4.11	Printer ribbons /inking mechanism for colour printer.	Nos.	20			
4.4.12	Ribbons for dot matrix printer.	Nos.	60			
4.4.13	Data highway cable with adequate connectors.	meters	500			
4.4.14	Hard disc drive unit as offered for system complete with accessories.	No.	2			
4.4.15	Interface cables for each type	Sets	4			
4.4.16	Power supply modules of each type and rating	Lot (10%)	2			
4.4.17	Interposing / coupling relays of each type.	2 Lot (5% of total quantity)				
4.5	MANDATORY SPARES FOR UN-INTERRUPTIBLE POWER SUPPLY SYSTEM					
4.5.1	Fuses (3 times, the one hundred percent spare replacement fuses shall be furnished with each panel board.)	Lot	2			
4.5.2	Electronic modules for UPS , Charger, static switch & stabilizer and DC power supply system with each set consisting of at least one number of each type of electronic module for inverters, chargers, static switch, stabiliser etc.	Set	2			
4.5.3	Battery cells	Lot (10%)	2			
4.5.4	Thyrister without heat sink	Lot (10%)	2			
4.5.5	Semiconductor fuse	2 Lot (10%)	2			
4.6	Mandatory Spares for Control Panels / Desks					
4.6.1	Crimping Pins	2 Rolls	2			
4.6.2	Bulbs for indicating lights (Three times the one hundred percent spare replacement)	Lot	2			
4.6.3	control circuit fuses of each current rating (Three times, the one hundred percent spare replacement)	Lot	2			
4.6.4	Push buttons, electrical control switches and Illuminated push buttons etc	2 Lot (5% of total quantity)				

5	VALVES AND PIPING			
i	Piping valves - Complete assembly	5% or min. 1 no. (whichever is more) for each size, type & rating for total population		
6	BLOWER (FOR EACH TYPE AND SIZE)			
i	Impeller with lock nuts & washers	Set	1	
ii	Shaft	Set	1	
iii	Bearings of Blowers	Set	1	
iv	Suction filter Assembly	Set	2	
7	SCREW PUMPS (FOR EACH TYPE AND SIZE)			
i	Shaft for each type	Set	1	
ii	Shaft Sleeves for each type	Set	1	
iii	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	Set	1	
iv	Pump bearings for each type	Set	1	
v	Gland Packing & Gland Assembly for each type	Set	1	
8	LIST OF MANDATORY SPARES FOR HOIST AND CHAIN PULLEY BLOCK			
	ELECTRIC HOIST (for each type and rating, hoists)			
1.	Mechanical Items			
1.1	Bearings for long travel wheels	Set	2	
1.2	Bearings for gear boxes for each type of hoist	Set	2	
1.3	Break liners for all the brakes	100% of total population of each type & size		
1.4	Oil seals	100% of total population of each type, size rating		
1.5	Brake springs for all brakes	100% of total population of each type, size rating		
1.6	Wire ropes for hooks	100% installed on each crane and hoist		
1.7	Solenoid coils for brakes	Set	2	
1.8	Overload relay for motors	Nos.	2	
1.9	Limit switches for hoists and travel mechanisms	Set	2	
1.10	Spare motors for hoists	Nos.	2	
1.11	Long travel machinery			
1.12	i. Gear wheel	Set	1	
1.13	ii. Internal clip	Nos.	2	
1.14	iii. Pinion	No.	1	
2	Electrical Items			
2.1	415 Volt Motor (Upto 30 KW Rating)			
	i) Driving End & Non-Driving End Bearing	3 Set for each type and rating of Motor		
	ii) Cooling Fan	2 Nos. for each type and rating of Motor		
	iii) Motor Terminal Block	5 Nos. for each type and rating of Motor		
	iv) Complete Set of Coupling	1 Set of each application		
3	C&I Items			
3.1	Back-up panel mounted devices (Selector switches/ Push buttons/ Indicators etc.	5% of installed capacity		
3.2	Lamps/ LEDs	10% of the total quantity		
3.3	Blank Tiles	10% of installed capacity		
3.4	MCBs	10% of each type & rating		
3.5	Fuses/ Fuse holder	10% of each type & rating		
	Chain pulley block (for each capacity and type of chain pulley blocks)			
i	Load chain wheel	No.	1	
ii	Load chain stripping fork	Nos.	5	
iii	Hand chain wheel	Nos.	2	
iv	Ratchet pawl	No.	1	
v	Locking ratchet wheel	Nos.	2	
vi	Guide roller	Nos.	2	
vii	Brake disc	Nos.	2	

Note: Mandatory spares listed above is 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 bidders scope of supply.

Particulars of bidder / authorised representative

Name	Designation	Signature & Company Seal	Date

PRICE FORMAT FOR FOREIGN BIDDERS FOR ETP OF 4X270 MW BHADRADRI TPS																				
NAME OF PACKAGE:			EFFLUENT TREATMENT PLANT (ENQUIRY NO-PE/PG/MG1IE-5846/2017 DTD 06/02/2018)																	
			IMPORTED ITEMS (Supply not from Indian Territory)									INDIGENEOUS ITEMS (Supply from Indian Territory)					E & C		GRAND TOTAL	
TECHNICAL SPECIFICATION:PE-TS-411-164-A001			HSN/ SAC CODE	UNIT	QTY	Type of GST [[CGST + [SGST/UTGST]] or IGST	UNIT C&F Mumbai Sea Port Price (including seaworthy packing) (Currency/INR)	TOTAL C&F Mumbai Sea Port Price (including seaworthy packing) (Currency/INR)	Ocean / Marine Insurance	Custom Duty after availing ITC benefit (INR)	Inland FREIGHT CHARGES (INR)	Total F.O.R. Site Price Imported Items (Currency + INR)	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	Type of GST [[CGST + [SGST/UTGST]] or IGST	FREIGHT CHARGES in INR	TOTAL F.O.R Site Price Indigenous Items Excluding GST (INR)	TOTAL OF E&C CHARGES excluding GST (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY and E&C Excluding GST (INR)	GRAND TOTAL IN WORDS
S. No.	DESCRIPTION		1	2	3	4	5	6	7	8	9	10=6+8+9	11	12	13	14	15=12+14	16	17=10+15+16	18
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART , SERVICES PART & 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 & consumables, chemicals as specified, 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, minor civil works, erection & commissioning, trial run at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee /Functional / Demonstration tests at site (As applicable), training of customer/ client O&M staff (if applicable) & final handing over to end customer in flawless condition 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				BY BHEL											
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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- I).		8421 2190	Lot	1				BY BHEL									NA		
NOTE		1.CGST/SGST/UGST/GST shall be paid at actuals against documentary evidence but restricted to the amount and percentage in the order/contract as per GST against HSN code.																		
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