

				PRICE FORMAT								
NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP, CHENNAI		Vendor Name								
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT										
TECHNICAL SPECIFICATION:		PE-TS-412-164-A002										
SCOPE				Supply			Service		Taxes			
S. No.	DESCRIPTION	UNIT	QTY	Total Ex-Works (excluding GST) (INR)	Freight in %	Total Freight	Unit Price (INR)	Total Price (INR)	GST type	GST rate in %	GST amount in Rs.	Total Price Including Freight & GST (INR)
1.0	Total lump sum firm price for SUPPLY PART, SERVICES PART [INCLUDING SUPERVISION OF ERECTION AND COMMISSIONING INCLUDING ASSEMBLY AT SITE FOR ONE FIFTY (150) MANDAYS] & 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 Chemicals, lubricants & consumables, spares for erection, start up and commissioning as required, forwarding, proper packing, shipment and delivery at site, Supervision of erection & commissioning including assembly at Site, carrying out Trial Run and Performance Guarantee test at site, training of customer/ client O&M staff & 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 for SUPPLY PART comprising of manufacture, fabrication, assembly, inspection & testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables (including chemicals), along with spares for erection ,start up and commissioning as required, forwarding, proper packing, shipment and delivery at site 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			₹ -	NA				₹ -	₹ -
2.2	Total lump sum firm price for SERVICES PART comprising of carrying out Trial Run and Performance Guarantee test at site , training of customer/ client O&M staff & final handing over to end customer in flawless condition for project and package specified complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Set	1	NA				₹ -			₹ -	₹ -
2.3	Total lump sum firm price for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure- I).	Set	1	₹ -		₹ -	NA				₹ -	₹ -
2.4	Supervision of Erection and Commissioning including assembly at site (By Experienced/Capable Engineer). Lump sum supervision charges for Three (3) visits each of Fifty (50) mandays to Supervise in Erection and Commissioning including assembly at site in totality [Total One Fifty (150) mandays in Three (3) visits excluding the travel time]. The prices for Visit shall be inclusive of charges of Air-Fair/Rail-Fair, Boarding/Lodging, local conveyance, medical, Insurance etc. (Price break up is to be furnished as per Annexure- II).	Set	1	NA			₹ -	₹ -			₹ -	₹ -

Annexure-I (List Of Mandatory Spares)			
NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP, CHENNAI	
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT	
SI. NO.	PARTICULARS	QUANTITY	Total Ex-Works Price (INR)
A)	C&I Mandatory Spares		
1.0	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/ system.	20% of installed of each type.	
2.0	Indicators, Recorders, Electrical Metering and Skid Mounted Instruments		
a	Temperature, Transmitters and Electronic Transmitters (For Pressure, Temp., DP, Flow, Level), Temperature, Pressure, Flow & Level Switch, Safety switches, Gauges, Meters, Transducers, or any other instrument etc. meters, any other instrument etc.	10% of total number of Instruments/ transducers offered for each model and type for the project or a minimum of one number, whichever is more.	
b	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	10 % of Installed of each type/ model or a minimum of one number for each model and type, whichever is more.	
c	For skid mounted in instruments	10% of total number of instruments for each Type and model or a minimum of one number for each model and type, whichever is more.	
3.0	Temperature Elements and Thermowells		
a	Thermocouple/ RTD elements	10% spare for each type and length of element furnished with thermocouple/ RTD assemblies, or a minimum of one number of each type & length, whichever is more.	
b	Thermowells	10% for each type of temperature sensors or minimum one for each type, whichever is more.	
4.0	Hooters, Buzzers, Cooling fans of each type.	Ten (10) percent or 2 no. whichever is more.	
5.0	Interface cables.	2 sets of each type/ model.	
6.0	Power supply modules (AC to DC converters).	10% or Five no. (Whichever is more) of each type/ model.	
7.0	Relay Based Control Panels		
a	LEDs for indicating lights.	10% of quantity installed.	
b	Control circuit fuses/ MCB/M CCB/ Semiconductor Fuses.	300% of installed of each type, current rating.	
c	Relays modules & contactors.	20% spare of quantity Installed of each type & rating.	
8.0	Alarm Annunciation System		
a	Logic modules, group card modules, power supply modules, Hooters and any other electronic module.	20% spares of each type installed.	
b	Un-engraved window boxes complete with LED etc.	5% spares of each size installed.	
c	LEDs for annunciation facia windows and LEDs box assemblies offered for the project.	20% of quantity installed	
d	Annunciator hooter.	One (1) No. of each type	
9.0	Erection hardware		
a	Instrument valves.	Ten (10) percent of each type & Size installed.	
b	Condensate pots of each type & Size installed.	Ten (10) percent of total number of Installed or four numbers whichever is higher.	
c	Manifold.	Ten (10) percent of each type & Size installed.	
d	Fittings.	Ten (10) percent of each type & Size installed.	
10.0	Mandatory Spares for Control valves, Power Cylinder, Control Dampers, Actuators and Accessories.		

Sl. NO.	PARTICULARS	QUANTITY	Total Ex-Works Price (INR)
A.	Following spares shall be furnished for control valves, Power Cylinder, Control Dampers as applicable:-.		
a	One set of spare control valve stem packing for each control valve.		
b	Two moulded rubber diaphragms for each control valve.		
c	One sets of each of O-rings and rubber gaskets for each control valve.		
d	100 percent qty. of lubricants for gaskets for each control valve on one year consumption basis.		
e	2 sets of limit switches and 1 set of valve positioner for each control valve.		
f	20 percent of position transmitter (4-20mA) for total qty. of control valve.		
g	One (1) set of valve trims (such as plug, stem, seat ring /cage, guide bushing, stem lock pin, packing retaining ring, etc.) for each control valve.		
h	One complete actuator of each type or min 10% for each type and size whichever is more		
i	20 percent of Solenoid valves or min 2 no. of each type for total qty. of control valves.		
j	20% of I to P converters, Pressure regulators		
11.0	C&I Mandatory spares which are not covered above.	10% or 1 no. (whichever is more) of each type of sensor/instrument, analyzers/ special instruments/ Electronic card, instrumentation/ mechanical fittings etc.	
B)	<u>Electrical Mandatory Spares</u>		
1.0	415 V Motors (Mandatory Spares)	12 nos.	
a	Terminal plates	10 Nos. each for small motors up to 30 kW & 4 Nos. each for more than 30 Kw.	
b	Heaters	2 sets.	
c	Greasing arrangements	4 sets each type of motor	
d	Motor of each type and rating	10% of the installed quantity or minimum 1 number whichever be higher.	
e	Bearings (DE and NDE) for each type and rating of motor	4 sets.	
Total			₹ -
<p>Notes:</p> <p>1) 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.</p> <p>2) Unless stated otherwise, a "set" or "Lot" means items required for complete replacement in one equipment of each type/ size/ range.</p> <p>3) In case of Bought Out items, itemised spares list may be vendor specific and may differ from the list of spares mentioned above. In such cases, the quoted price shall be considered for applicable items only without any change in the contract price.</p> <p>4) In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to offered design with quantities generally in line with the approach followed in the above list.</p> <p>5) Any item which is quoted as "not applicable" in the above list and is found to be "applicable" at a later date shall be supplied by the Bidder without any commercial implications.</p>			

ANNEXURE-II

NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP, CHENNAI			
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT			
S. No.	DESCRIPTION	UNIT	QTY	UNIT RATE (INR)	TOTAL RATE (INR)
	PRICE BREAK-UP OF SUPERVISION OF COMMISSIONING GIVEN IN 2.4 OF MAIN SHEET.				
2.4	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for Supervision of Erection and Commissioning including assembly at site (By Experienced/Capable Engineer). Lump sum supervision charges for Three (3) visits each of Fifty (50) mandays to Supervise in Erection and Commissioning including assembly at site in totality [Total One Fifty (150) mandays in Three (3) visits excluding the travel time]. The prices for Visit shall be inclusive of charges of Air-Fair/Rail-Fair, Boarding/Lodging, local conveyance, medical, Insurance etc.	Lot	1		₹ -
2.4.1	LUMP SUM CHARGES PER VISIT FOR ENGINEER (EXCEPT DAILY CHARGES)	Visit	3		₹ -
2.4.2	LUMP SUM DAILY CHARGES FOR ENGINEER	Days	150		₹ -
Note: 1. AMOUNT PAYABLE FOR ENGINEER PER VISIT TO SITE =VISIT CHARGES AS PER SL. NO. 2.4.1 ABOVE + (DAILY CHARGES AS PER SL.NO. 2.4.2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE). 2. THE VISIT CHAGRES SHALL BE INCLUSIVE OF CHARGES OF AIR FARE/TRAIN FARE, BOARDING/LODGING, LOCAL CONVEYANCE, MEDICAL, INSURANCE ETC.					