

PRICE FORMAT - FOR INDIAN BIDDERS												
NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP										
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT										
TENDER ENQUIRY NO.		PE/PG/EN1/E-5594/2017										
TECHNICAL SPECIFICATION:		PE-TS-412-164-A001		SUPPLY					SERVICES			GRAND TOTAL
S. No.	DESCRIPTION	UNIT	QTY	TOTAL EX- WORKS PRICE (INR)	Excise Duty (NIL AGAINST EXEMPTION CERTIFICATE AS PER SCC)	CST @% Against C- form & E1/E2 or VAT @.....% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @ _____% OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	TOTAL SERVICES CHARGES (INR)	SERVICE TAX @% (INR)	TOTAL SERVICES CHARGES INCLUDING SERVICE TAX (INR)	TOTAL LUMP SUM PRICE FOR SUPPLY AND SERVICES WITH TAXES AND DUTIES (INR)
				1	2	3	4	5=1+3+4	6	7	8=6+7	9=5+8
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART, SERVICES PART & MANDATORY SPARES (if applicable) comprising of design (i.e. Preperation 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 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, preperation 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		NIL AGAINST EXEMPTION CERTIFICAT E AS PER SCC							
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. Preperation 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), alongwith spares for erection , startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preperation 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.	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.	Set	1	NA		NA						

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TENDER ENQUIRY NO.		PE/PG/EN1/E-5594/2017												
TECHNICAL SPECIFICATION:		PE-TS-412-164-A001				SUPPLY				SERVICES			GRAND TOTAL	
S. No.	DESCRIPTION			UNIT	QTY	TOTAL EX- WORKS PRICE (INR)	Excise Duty (NIL AGAINST EXEMPTION CERTIFICATE AS PER SCC)	CST @% Against C- form & E1/E2 or VAT @.....% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @ _____% OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	TOTAL SERVICES CHARGES (INR)	SERVICE TAX @% (INR)	TOTAL SERVICES CHARGES INCLUDING SERVICE TAX (INR)	TOTAL LUMPSUM PRICE FOR SUPPLY AND SERVICES WITH TAXES AND DUTIES (INR)
						1	2	3	4	5=1+3+4	6	7	8=6+7	9=5+8
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).			Lot	1						NA			
Note-														
1. Evaluation shall be done one the basis of total lump sump prices for complete supply and services. Total price indicated above at Column (9) minus service tax quoted at Column (7) of 1.0 shall be considered for evaluation & hence must be completed in all respect for the full scope defined & considering all terms and conditions agreed. Further Swachh Bharat Cess i.e.0.5% of Service tax rate is not cenvatable. Hence, this 0.5% component of cess shall be considered for Evaluation.														
2. Bidder to quote the Prices in figures along with corresponding words														
Particulars of bidder / authorised representative														
Name	Designation	Signature	Date	Company Seal										

PRICE FORMAT - FOR INDIAN BIDDERS ANNEXURE-I LIST OF MANDATORY SPARES									
NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP							
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT							
TENDER ENQUIRY NO.:		PE/PG/EN1/E-5594/2017							
TECHNICAL SPECIFICATION:		PE-TS-412-164-A001							
S. No.	DESCRIPTION	UNIT	QTY	UNIT EX- WORKS PRICE INCLUDING G P&F (INR)	TOTAL EX- WORKS PRICE INCLUDING G P&F (INR)	Excise Duty (NIL AGAINST EXEMPTION CERTIFICA TE AS PER SCC)	CST @% Against C- form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @% % OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
1	C&I Mandatory Spares.			1	2	3	4	5	6=2+4+5
A	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/ system.	Nos.	20% of installed of each type.						
B	Indicators, Recorders, Electrical Metering and Skid Mounted Instruments								
I)	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.	Nos.	10% of total number of Instruments/ transducers offered for each model and type for the project or a minimum of one						
II)	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	Nos.	10 % of Installed of each type/ model or a minimum of one number for each model and type,						
III)	For skid mounted in instruments	Nos.	10% of total number of instruments for each Type and model or a minimum of one number for each model and type,						
C	Temperature Elements and Thermowells								
I)	Thermocouple/ RTD elements	Nos.	10% spare for each type and length of element furnished with thermocouple/ RTD assemblies, or a minimum of one number of each						
II)	Thermowells	Nos.	10% for each type of temperature sensors or minimum one for each type,						
D	Hooters, Buzzers, Cooling fans of each type.	Nos.	Ten (10) percent or 2 no. whichever is						
E	Interface cables.	Set	2 sets of each type/ model.						
F	Power supply modules (AC to DC converters).	Nos.	10% or Five no. (Whichever is more) of each						
G	Relay Based Control Panels								
I)	LEDs for indicating lights.	Nos.	10% of quantity installed.						
II)	Control circuit fuses/ MCB/MCCB/ Semiconductor Fuses.	Nos.	300% of installed of each type, current rating.						

PRICE FORMAT - FOR INDIAN BIDDERS ANNEXURE-I LIST OF MANDATORY SPARES									
NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP							
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT							
TENDER ENQUIRY NO.:		PE/PG/EN1/E-5594/2017							
TECHNICAL SPECIFICATION:		PE-TS-412-164-A001							
S. No.	DESCRIPTION	UNIT	QTY	UNIT EX- WORKS PRICE INCLUDING G P&F (INR)	TOTAL EX- WORKS PRICE INCLUDING G P&F (INR)	Excise Duty (NIL AGAINST EXEMPTION CERTIFICA TE AS PER SCC)	CST @% Against C- form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @% % OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
III)	Relays modules & contactors.	Nos.	20% spare of quantity Installed of each type &			NIL AGAINST EXEMPTION CERTIFICA TE AS PER SCC			
IV)	Relays modules & contactors.	Nos.	20% spare of quantity Installed of each type &						
H	Alarm Annunciation System								
I)	Logic modules, group card modules, power supply modules, Hooters and any other electronic	Nos.	20% spares of each type installed.						
II)	Un-engraved window boxes complete with LED etc.	Nos.	5% spares of each size						
III)	LEDs for annunciation facia windows and LEDs box assemblies offered for the project.	Nos.	20% of quantity installed						
IV)	Annunciator hooter.	Nos.	One (1) No. of each type						
I	Erection hardware								
I)	Instrument valves.	Nos.	Ten (10) percent of each type & Size installed.						
II)	Condensate pots of each type & Size installed.	Nos.	Ten (10) percent of total number of Installed or four numbers whichever is						
III)	Manifold.	Nos.	Ten (10) percent of each type & Size installed.						
IV)	Fittings.	Nos.	Ten (10) percent of each type & Size installed.						
J	Mandatory Spares for Control valves, Power Cylinder, Control Dampers, Actuators and Accessories.								
I)	Spare control valve stem packing for each control valve.	Set	One (1)						
II)	Moulded rubber diaphragms for each control valve.	Nos.	Two (2)						
III)	One sets of each of O-rings and rubber gaskets for each control valve	Set	One (1)						
IV)	Lubricants for gaskets for each control valve on one year consumption basis.		100% Qty.						
V)	Limit switches and valve positioner for each control valve.	Set	2 sets of limit switches and 1 set of valve positioner for each control						
VI)	Position transmitter (4-20mA) for total qty. of control valve.	Nos.	Twenty (20) percent						
VII)	Valve trims (such as plug, stem, seat ring /cage, guide bushing, stem lock pin, packing retaining ring, etc.) for each control valve.	Set.	One (1)						

PRICE FORMAT - FOR INDIAN BIDDERS									
ANNEXURE-I									
LIST OF MANDATORY SPARES									
NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP							
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT							
TENDER ENQUIRY NO.:		PE/PG/EN1/E-5594/2017							
TECHNICAL SPECIFICATION:		PE-TS-412-164-A001							
S. No.	DESCRIPTION	UNIT	QTY	UNIT EX- WORKS PRICE INCLUDING G P&F (INR)	TOTAL EX- WORKS PRICE INCLUDING G P&F (INR)	Excise Duty (NIL AGAINST EXEMPTION CERTIFICA TE AS PER SCC)	CST @% Against C- form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @% % OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)
VIII)	Complete actuator of each type	Nos.	One (1) or min 10% for each type and size whichever is						
IX)	Solenoid valves	Nos.	20 percent or min 2 no. of each type for total qty. of control valves.						
X)	I to P converters, Pressure	Nos.	Twenty (20)						
K	C&I Mandatory spares which are not covered above.	Nos.	10% or 1 no. (whichever is more) of each type of sensor/instrume nt, analyzers/ special instruments/ Electronic card, instrumentation/						
2	ELECTRICAL MANDATORY								
I)	Terminal plates	Nos.	10 Nos. each for small motors up to 30 kW & 4 Nos. each for more than 30 Kw.						
II)	Heaters	Set	2 sets.						
III)	Greasing arrangements	Set	4 sets each type of motor						
IV)	Motor of each type and rating	Nos.	10% of the installed quantity or minimum 1 number						
V)	Bearings (DE and NDE) for each type and rating of motor	Set	4 sets.						
3	MECH. MANDATORY SPARES FOR LIFTING EQUIPMENTS								
I)	Brake linings	Set	2 set of each						
II)	Rope guide & rope tightener	Nos.	1 no. of each						
III)	Limit switch	Set	2 set of each type & size						
IV)	Gear box/ gear set	Set	2 set of each						
V)	Drum Bearing	Set	1 set of each type & rating						
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			Date	

2 x 660MW ENNORE SEZ OFF- EFFLUENT TREATMENT PLANT						
SECTION -III						
GUARANTEED POWER CONSUMPTION FORMAT						
Sl.No	Description / Item	Working	Standby	Power Consumption (KW) (For Complete sewage treatment plant)	Duty Factor	Total Power Consumption (KW)
1	2	3	4	5	6	7 = 5 x 6
1	Complete EFFLUENT TREATMENT PLANT (considering all working drives as per technical specification)				0.50	
					Total KW	
s						
1	Power consumption (KW) of all working motors applicable for ETP package shall be measured at motor input terminals when operating at the rated capacity and pressure and performed on test rig at the vendor's works and actual motor shall be used for this purpose.					
2	The base auxiliary power is 114 KW Quoted power by bidder at column no. (7) shall be evaluated with respect to base auxiliary power. For bid evaluation purpose, excess power quoted by bidder over base auxiliary power, shall be loaded with Rs. 356607 per KW.					
3	Power quoted by bidder shall be termed as 'Guaranteed Power consumption' (GPC) and bidder shall be liable to demonstrate compliance to GPC value during PG test/ Demonstration test at site. If the actual power consumption exceeds the guaranteed power consumption, liquidated damages shall be payable by the Bidder at the rate of Rs. 356607 per KW excess power consumption, over the guaranteed power consumption indicated by bidder in his bid. Such liquidated damages may be recovered from Bidder by the BHEL by deduction from the contract price or by enforcing the contract performance guarantee or in any other manner deemed fit by the BHEL. For this purpose, the drives of standby equipment shall not be considered					
REMARKS: METHOD OF CALCULATION OF GPC (GUARANTEED POWER CONSUMPTION) FOR ETP PACKAGE						
1) Bidder shall calculate power consumption of Effluent Treatment Plant by adding power required (at motor input terminal) for all working drives of Effluent Treatment plant and same shall be multiplied by duty factor given at column number 6 of GPC format. Output shall be quoted at column number 7 which will be treated as final GPC for ETP package.						

PRICE FORMAT - FOR FOREIGN BIDDERS

ANNEXURE-I

LIST OF MANDATORY SPARES

NAME OF PROJECT:				2X660 MW ENNORE SEZ STPP																			
NAME OF PACKAGE:				EFFLUENT TREATMENT PLANT																			
TENDER ENQUIRY NO.:																							
TECHNICAL SPECIFICATION:				PE-TS-412-164-A001				IMPORTED ITEMS (Supply not from Indian Territory)				INDIGENEOUS ITEMS (Supply from Indian Territory)				TOTAL							
S. No.	DESCRIPTION	UNIT	QTY	Unit C&F Price (including seaworthy packing) (Currency/INR)	Total C&F Price (including seaworthy packing) (Currency/INR)	Ocean / Marine Insurance (By BHEL)	Custom Duty (INR) (NIL AGAINST EXEMPTION CERTIFICATE AS PER SCC)	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.R. site price for Imported Items supply (Currency + INR)	UNIT EX- WORKS PRICE (INR)	TOTAL EX- WORKS PRICE (INR)	Excise Duty (NIL AGAINST EXEMPTION CERTIFICATE AS PER SCC)	CST @% Against C form & E1/E2 or VAT @% . Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @% OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	Total FOR Site IMPORTED + INDIGENOUS SUPPLY [(Currency+INR)+INR]							
1	C&I Mandatory Spares.			1	2	3	4	5	6=2+5	7	8	9	10	11	12=8+10+11	13=6+12							
A	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/ system.	Nos.	20% of installed of each type.																				
B	Indicators, Recorders, Electrical Metering and Skid Mounted Instruments																						
I)	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.	Nos.	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.																				
II)	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	Nos.	10 % of Installed of each type/ model or a minimum of one number for each model and type, whichever is more.																				
III)	For skid mounted in instruments	Nos.	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.																				
C	Temperature Elements and Thermowells																						
I)	Thermocouple/ RTD elements	Nos.	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.																				
II)	Thermowells	Nos.	10% for each type of temperature sensors or minimum one for each type, whichever is more.																				
D	Hooters, Buzzers, Cooling fans of each type.	Nos.	Ten (10) percent or 2 no. whichever is more.																				
E	Interface cables.	Set	2 sets of each type/ model.																				
F	Power supply modules (AC to DC converters).	Nos.	10% or Five no. (Whichever is more) of each type/ model.																				
G	Relay Based Control Panels																						
I)	LEDs for indicating lights.	Nos.	10% of quantity installed.																				
II)	Control circuit fuses/ MCB/M CCB/ Semiconductor Fuses.	Nos.	300% of installed of each type, current rating.																				
III)	Relays modules & contactors.	Nos.	20% spare of quantity installed of each type & rating.																				
IV)	Relays modules & contactors.	Nos.	20% spare of quantity installed of each type & rating.																				
H	Alarm Annunciation System																						
I)	Logic modules, group card modules, power supply modules, Hooters and any other electronic module.	Nos.	20% spares of each type installed.																				
II)	Un-engraved window boxes complete with LED etc.	Nos.	5% spares of each size installed.																				
III)	LEDs for annunciation facade windows and LEDs box assemblies offered for the project.	Nos.	20% of quantity installed																				
IV)	Annunciator hooter.	Nos.	One (1) No. of each type																				
I	Erection hardware																						
I)	Instrument valves.	Nos.	Ten (10) percent of each type & Size installed.																				
II)	Condensate pots of each type & Size installed.	Nos.	Ten (10) percent of total number of installed or four numbers whichever is higher.																				
III)	Manifold.	Nos.	Ten (10) percent of each type & Size installed.																				
IV)	Fittings.	Nos.	Ten (10) percent of each type & Size installed.																				
J	Mandatory Spares for Control valves, Power Cylinder, Control Dampers, Actuators and Accessories.																						
I)	Spare control valve stem packing for each control valve.	Set	One (1)																				
II)	Moulded rubber diaphragms for each control valve.	Nos.	Two (2)																				
III)	One sets of each of O-rings and rubber gaskets for each control valve.	Set	One (1)																				
IV)	Lubricants for gaskets for each control valve on one year consumption basis.		100% Qty.																				
V)	Limit switches and valve positioner for each control valve.	Set	2 sets of limit switches and 1 set of valve positioner for each control valve.																				
VI)	Position transmitter (4-20mA) for total qty. of control valve.	Nos.	Twenty (20) percent																				
VII)	Valve trims (such as plug, stem, seat ring /cage, guide bushing, stem lock pin, packing retaining ring, etc.) for each control valve.	Set	One (1)																				
VIII)	Complete actuator of each type	Nos.	One (1) or min 10% for each type and size whichever is more.																				
IX)	Solenoid valves	Nos.	20 percent or min 2 no. of each type for total qty. of control valves.																				
X)	I to P converters, Pressure regulators	Nos.	Twenty (20) percent																				
K	C&I Mandatory spares which are not covered above.	Nos.	10% or 1 no. (whichever is more) of each type of sensor/instrument, analyzers/ special instruments/ Electronic control instrumentation/ mechanical fittings etc.																				
2	ELECTRICAL MANDATORY SPARES																						
I)	Terminal plates	Nos.	10 Nos. each for small motors up to 30 kW & 4 Nos. each for more than 30 Kw.																				
II)	Heaters	Set	2 sets.																				
III)	Greasing arrangements	Set	4 sets each type of motor																				
IV)	Motor of each type and rating	Nos.	10% of the installed quantity or minimum 1 number whichever be higher.																				
V)	Bearings (DE and NDE) for each type and rating of motor	Set	4 sets.																				
3	MECH. MANDATORY SPARES FOR LIFTING EQUIPMENTS																						
I)	Brake linings	Set	2 set of each type																				

By BHEL

NIL AGAINST
EXEMPTION
CERTIFICATE
AS PER SCCNIL AGAINST
EXEMPTION
CERTIFICATE
AS PER SCC

PRICE FORMAT - FOR FOREIGN BIDDERS																
ANNEXURE-I																
LIST OF MANDATORY SPARES																
NAME OF PROJECT:		2X660 MW ENNORE SEZ STPP														
NAME OF PACKAGE:		EFFLUENT TREATMENT PLANT														
TENDER ENQUIRY NO.:																
TECHNICAL SPECIFICATION:		PE-TS-412-164-A001		IMPORTED ITEMS (Supply not from Indian Territory)					INDIGENEOUS ITEMS (Supply from Indian Territory)					TOTAL		
S. No.	DESCRIPTION	UNIT	QTY	Unit C&F Price (including seaworthy packing) (Currency/INR)	Total C&F Price (including seaworthy packing) (Currency/INR)	Ocean / Marine Insurance (By BHEL)	Custom Duty (INR) (NIL AGAINST EXEMPTION CERTIFICATE AS PER SCC)	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.R. site price for Imported Items supply (Currency + INR)	UNIT EX- WORKS PRICE (INR)	TOTAL EX- WORKS PRICE (INR)	Excise Duty (NIL AGAINST EXEMPTION CERTIFICATE AS PER SCC)	CST @ ____% Against C- form & E1/E2 or VAT @ ____% .Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @ ____% OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	Total For Site IMPORTED + INDIGENEOUS SUPPLY [(Currency+INR)+INR]
1	C&I Mandatory Spares			1	2	3	4	5	6=2+5	7	8	9	10	11	12=8+10+11	13=6+12
II)	Rope guide & rope tightener	Nos.	1 no. of each type													
III)	Limit switch	Set	2 set of each type & size													
IV)	Gear box/ gear set	Set	2 set of each type													
V)	Drum Bearing	Set	1 set of each type & rating													
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		Date										

2 x 660MW ENNORE SEZ STPP - EFFLUENT TREATMENT PLANT

SECTION -III

GUARANTEED POWER CONSUMPTION FORMAT

Sl.No.	Description / Item	Working	Standby	Power Consumption (KW) (For Complete sewage treatment plant)	Duty Factor	Total Power Consumption (KW)
1	2	3	4	5	6	7 = 5 x 6
1	Complete EFFLUENT TREATMENT PLANT (considering all working drives as per technical specification)				0.50	

Total KW

Notes

1	Power consumption (KW) of all working motors applicable for ETP package shall be measured at motor input terminals when operating at the rated capacity and pressure and performed on test rig at the vendor's works and actual motor shall be used for this purpose.
2	<u>The base auxiliary power is 114 KW.</u> Quoted power by bidder at column no. (7) shall be evaluated with respect to base auxiliary power. For bid evaluation purpose, excess power quoted by bidder over base auxiliary power, shall be loaded with Rs. 356607 per KW.
3	Power quoted by bidder shall be termed as 'Guaranteed Power consumption' (GPC) and bidder shall be liable to demonstrate compliance to GPC value during PG test/ Demonstration test at site. If the actual power consumption exceeds the guaranteed power consumption, liquidated damages shall be payable by the Bidder at the rate of Rs. 356607 per KW excess power consumption, over the guaranteed power consumption indicated by bidder in his bid. Such liquidated damages may be recovered from Bidder by the BHEL by deduction from the contract price or by enforcing the contract performance guarantee or in any other manner deemed fit by the BHEL. For this purpose, the drives of standby equipment shall not be considered.
	REMARKS: METHOD OF CALCULATION OF GPC (GUARANTEED POWER CONSUMPTION) FOR ETP PACKAGE 1) Bidder shall calculate power consumption of Effluent Treatment Plant by adding power required (at motor input terminal) for all working drives of Effluent Treatment plant and same shall be multiplied by duty factor given at column number 6 of GPC format. Output shall be quoted at column number 7 which will be treated as final GPC for ETP package.