

SCHEDULE OF PRICES - MISC PUMPS HORIZONTAL											
2X800 MW LARA STPP STAGE-II											
	DESCRIPTION OF WORKS OR EQUIPMENT(S)		UOM	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX-WORKS + FREIGHT (INR)	GST RATE	TOTAL F.O.R. PRICE (INR)
	Total Price for design, manufacture, assembly, inspection and testing at manufacturer's and/or his sub-contractors works, painting, proper packing to avoid damage of items during transportation & storage at site of Miscellaneous Pumps (along with Motors & mandatory spares as applicable), transportation to site, complete with all other accessories as per the requirements specified in the specification, site services including installation checks of pump motor set & supervision of replacement of gland packing with Mechanical Seal arrangement (as applicable) at site, PG Test at site and any other services, etc. as per specification PE-TS-508-100-W001, REV-00 for Misc. Pumps Horizontal of 2X800 MW LARA STPP STAGE-II.										
1.0	Pumps and Motors (Horizontal Pumps):										
	(i)	DMCW TG-AUX'S PUMPS									
		Pump price:	Nos.	6							
		Motor price:	Nos.	BHEL Scope							
		Suction Strainer:	Nos.	6							
		Mandatory Spares (as per Annexure -A)	Lot	1							
	(ii)	DMCW SG-AUX'S PUMPS									
		Pump price:	Nos.	6							
		Motor price:	Nos.	BHEL Scope							
		Suction Strainer:	Nos.	6							
		Mandatory Spares (as per Annexure -A)	Lot	1							
	(iii)	ACW PUMPS									
		Pump price:	Nos.	6							
		Motor price:	Nos.	BHEL Scope							
		Mandatory Spares (as per Annexure -A)	Lot	1							
	(iv)	DM MAKE-UP PUMPS									
		Pump price:	Nos.	3							
		Motor price:	Nos.	3							
		Suction Strainer:	Nos.	3							
		Mandatory Spares (as per Annexure -A)	Lot	1							
	(v)	BOILER FILL PUMPS									
		Pump price:	Nos.	2							
		Motor price:	Nos.	2							
		Suction Strainer:	Nos.	2							
		Mandatory Spares (as per Annexure -A)	Lot	1							
	(vi)	CONDENSATE TRANSFER PUMPS									
		Pump price:	Nos.	2							
		Motor price:	Nos.	2							
		Suction Strainer:	Nos.	2							
		Mandatory Spares (as per Annexure -A)	Lot	1							
	(vii)	CW MAKE UP PUMPS									
		Pump price:	Nos.	3							
		Motor price:	Nos.	3							
		Mandatory Spares (as per Annexure -A)	Lot	1							
	(viii)	SERVICE WATER PUMPS									
		Pump price:	Nos.	3							
		Motor price:	Nos.	3							

SCHEDULE OF PRICES - MISC PUMPS HORIZONTAL

2X800 MW LARA STPP STAGE-II

	DESCRIPTION OF WORKS OR EQUIPMENT(S)			UOM	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX-WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
			Mandatory Spares (as per Annexure -A)	Lot	1								
	(ix)	HVAC MAKE UP PUMPS											
		Pump price:	Nos.	2									
		Motor price:	Nos.	2									
		Mandatory Spares (as per Annexure -A)	Lot	1									
	(x)	APH/ ESP WASH PUMPS											
		Pump price:	Nos.	2									
		Motor price:	Nos.	BHEL Scope									
		Mandatory Spares (as per Annexure -A)	Lot	1									
	(xi)	FGD GYPSUM WASH PUMPS											
		Pump price:	Nos.	2									
		Motor price:	Nos.	2									
		Mandatory Spares (as per Annexure -A)	Lot	1									
	(xil)	FGD PROCESS WATER PUMPS											
		Pump price:	Nos.	2									
		Motor price:	Nos.	2									
		Mandatory Spares (as per Annexure -A)	Lot	1									
2.0	SITE SERVICES:												
2.1	Installation Check (For all Pumps) & Supervision for replacement of Gland packing with Mechanical Seal (for DMCW TG-Aux's Pumps, DMCW SG-Aux's Pumps, DM Make-up Pumps, Boiler Fill Pumps and Condensate Transfer Pumps) at Site as per Specification												
2.1.1	Site Visit Charges			Nos. of Visits	30								
2.1.2	Manday Charges at Site			Nos. of Mandays	90								
2.2	Lumpsum cost for PG Test of pumps at site as per Specification			Lot	1								
TOTAL (1.0+ 2.0)													
NOTES:													
a)	Service charges at Sl.no 2.1.1. shall include to/fro travel expenses, medical and insurance.												
b)	Service Charges at Sl.no 2.1.2. shall include boarding/lodging, local conveyance or any other applicable charge for completion of site services. No. of mandays at site defined at Sl.no. 2.1.2 above shall be calculated on the basis of presence at site (travelling time/days is excluded).												
c)	Payment for Sl. No. 2.1 shall be done based on actual consumed site visits and mandays.												
d)	Price of commissioning & erection spares, special Tools & tackle and other accessories not listed above shall be included in the price of pump & shall be supplied with the pump.												
e)	For items stated as not applicable by bidder, shall have to be supplied without any cost implication to BHEL in the event they are found to be applicable during detail engineering stage.												
f)	Please refer technical specification for detail.												
g)	Mandatory Spare Note: 1. One(1) set consists of quantity required for complete replacement for one(1) Pump of each type/size. Also the 'set' would include all components/hardware required to replace the item. 2. 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 as specified in the Technical specification/NIT.												

SCHEDULE OF PRICES -ANNEXURE-A MANDATORY SPARES OF MISC. PUMPS (HORIZONTAL) 2X800 MW LARA STPP STAGE-II												
S. NO.	ITEM DESCRIPTION		MANDATORY SPARE LIST	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX- WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
1.0	MANDATORY SPARES PRICES-MISC PUMPS (HORIZONTAL)											
1.1	DMCW TG-AUX'S PUMPS	1.1.1	Shaft Sleeve (DE & NDE)	2 sets								
		1.1.2	Shaft	1 set								
		1.1.3	Impeller	1 set								
		1.1.4	Casing & impeller Wearing Ring	2 sets								
		1.1.5	Bearings for Pumps	2 sets								
		1.1.6	Thrust Bearings (if applicable)	2 sets								
		1.1.7	Sleeve nuts and O-rings	2 sets								
		1.1.8	Fasteners	1 set								
		1.1.9	Complete Coupling (Pump & Motor)	1 set								
		1.1.10	Mechanical seal (both DE and NDE) if applicable	2 sets								
		1.1.11	RTD's (1 no. of each type)	1 set								
1.2	DMCW SG-AUX'S PUMPS	1.2.1	Shaft Sleeve (DE & NDE)	2 sets								
		1.2.2	Shaft	1 set								
		1.2.3	Impeller	1 set								
		1.2.4	Casing & impeller Wearing Ring	2 sets								
		1.2.5	Bearings for Pumps	2 sets								
		1.2.6	Thrust Bearings (if applicable)	2 sets								
		1.2.7	Sleeve nuts and O-rings	2 sets								
		1.2.8	Fasteners	1 set								
		1.2.9	Complete Coupling (Pump & Motor)	1 set								
		1.2.10	Mechanical seal (both DE and NDE) if applicable	2 sets								
		1.2.11	RTD's (1 no. of each type)	1 set								
1.3	ACW PUMPS	1.3.1	Shaft Sleeve (DE & NDE)	2 sets								
		1.3.2	Shaft	1 set								
		1.3.3	Impeller	1 set								
		1.3.4	Casing & impeller Wearing Ring	2 sets								
		1.3.5	Bearings for Pumps	2 sets								
		1.3.6	Thrust Bearings (if applicable)	2 sets								
		1.3.7	Sleeve nuts and O-rings	2 sets								
		1.3.8	Fasteners	1 set								
		1.3.9	Complete Coupling (Pump & Motor)	1 set								
		1.3.10	Mechanical seal (both DE and NDE) if applicable	2 sets								
		1.3.11	RTD's (1 no. of each type)	1 set								

SCHEDULE OF PRICES -ANNEXURE-A MANDATORY SPARES OF MISC. PUMPS (HORIZONTAL) 2X800 MW LARA STPP STAGE-II												
S. NO.	ITEM DESCRIPTION		MANDATORY SPARE LIST	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX- WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
1.4	DM MAKE-UP PUMPS	1.4.1	Impeller for each type	1 set								
		1.4.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.4.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.4.4	Shaft for each type	1 set								
		1.4.5	Shaft Sleeves for each type	1 set								
		1.4.6	Stuffing box for each type	1 set								
		1.4.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.4.8	Pump bearings for each type	1 set								
		1.4.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.4.10	Motor and Motor Bearings of each type	1 set								
1.5	BOILER FILL PUMPS	1.5.1	Impeller for each type	1 set								
		1.5.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.5.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.5.4	Shaft for each type	1 set								
		1.5.5	Shaft Sleeves for each type	1 set								
		1.5.6	Stuffing box for each type	1 set								
		1.5.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.5.8	Pump bearings for each type	1 set								
		1.5.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.5.10	Motor and Motor Bearings of each type	1 set								
1.6	CONDENSATE TRANSFER PUMPS	1.6.1	Impeller for each type	1 set								
		1.6.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.6.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.6.4	Shaft for each type	1 set								
		1.6.5	Shaft Sleeves for each type	1 set								
		1.6.6	Stuffing box for each type	1 set								
		1.6.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.6.8	Pump bearings for each type	1 set								

SCHEDULE OF PRICES -ANNEXURE-A MANDATORY SPARES OF MISC. PUMPS (HORIZONTAL) 2X800 MW LARA STPP STAGE-II												
S. NO.	ITEM DESCRIPTION		MANDATORY SPARE LIST	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX- WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
		1.6.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.6.10	Motor and Motor Bearings of each type	1 set								
1.7	CW MAKE UP PUMPS	1.7.1	Impeller for each type	1 set								
		1.7.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.7.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.7.4	Shaft for each type	1 set								
		1.7.5	Shaft Sleeves for each type	1 set								
		1.7.6	Stuffing box for each type	1 set								
		1.7.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.7.8	Pump bearings for each type	1 set								
		1.7.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.7.10	Motor and Motor Bearings of each type	1 set								
1.8	SERVICE WATER PUMPS	1.8.1	Impeller for each type	1 set								
		1.8.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.8.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.8.4	Shaft for each type	1 set								
		1.8.5	Shaft Sleeves for each type	1 set								
		1.8.6	Stuffing box for each type	1 set								
		1.8.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.8.8	Pump bearings for each type	1 set								
		1.8.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.8.10	Motor and Motor Bearings of each type	1 set								
1.9	HVAC MAKE UP	1.9.1	Impeller for each type	1 set								
		1.9.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.9.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.9.4	Shaft for each type	1 set								
		1.9.5	Shaft Sleeves for each type	1 set								
		1.9.6	Stuffing box for each type	1 set								

SCHEDULE OF PRICES -ANNEXURE-A MANDATORY SPARES OF MISC. PUMPS (HORIZONTAL) 2X800 MW LARA STPP STAGE-II												
S. NO.	ITEM DESCRIPTION		MANDATORY SPARE LIST	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX- WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
	PUMPS	1.9.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.9.8	Pump bearings for each type	1 set								
		1.9.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.9.10	Motor and Motor Bearings of each type	1 set								
1.10	APH/ ESP WASH PUMPS	1.10.1	Impeller for each type	1 set								
		1.10.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.10.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.10.4	Shaft for each type	1 set								
		1.10.5	Shaft Sleeves for each type	1 set								
		1.10.6	Stuffing box for each type	1 set								
		1.10.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.10.8	Pump bearings for each type	1 set								
		1.10.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.10.12	RTD's (1 no. of each type)	1 set								
1.11	FGD GYPSUM WASH PUMPS	1.11.1	Impeller for each type	1 set								
		1.11.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.11.3	Wearing rings – Casing for each type (if applicable)	1 set								
		1.11.4	Shaft for each type	1 set								
		1.11.5	Shaft Sleeves for each type	1 set								
		1.11.6	Stuffing box for each type	1 set								
		1.11.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.11.8	Pump bearings for each type	1 set								
		1.11.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.11.10	Motor and Motor Bearings of each type	1 set								
		1.11.1	Impeller for each type	1 set								
		1.11.2	Wearing rings – Impeller for each type (if applicable)	1 set								
		1.11.3	Wearing rings – Casing for each type (if applicable)	1 set								

SCHEDULE OF PRICES -ANNEXURE-A												
MANDATORY SPARES OF MISC. PUMPS (HORIZONTAL)												
2X800 MW LARA STPP STAGE-II												
S. NO.	ITEM DESCRIPTION		MANDATORY SPARE LIST	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX- WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
1.12	FGD PROCESS WATER PUMPS	1.11.4	Shaft for each type	1 set								
		1.11.5	Shaft Sleeves for each type	1 set								
		1.11.6	Stuffing box for each type	1 set								
		1.11.7	Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set								
		1.11.8	Pump bearings for each type	1 set								
		1.11.9	Gland, Packing & Gland Assembly for each type	1 set								
		1.11.10	Motor and Motor Bearings of each type	1 set								

SCHEDULE OF PRICES - MISC PUMPS VERTICAL											
2X800 MW LARA STPP STAGE-II											
	DESCRIPTION OF WORKS OR EQUIPMENT(S)	UOM	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX-WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
	Total Price for design, manufacture, assembly, inspection and testing at manufacturer's and/or his sub-contractors works, painting, proper packing to avoid damage of items during transportation & storage at site of Miscellaneous Pumps (along with Motors & mandatory spares as applicable), transportation to site, complete with all other accessories as per the requirements specified in the specification, site services including installation checks of pump motor set at site, PG Test at site and any other services, etc. as per specification PE-TS-508-100-W002, REV-00 for Misc. Pumps Vertical of 2X800 MW LARA STPP STAGE-II.										
1.0	Pumps and Motors (Vertical Pumps):										
	(i) RAW WATER (PT) PUMPS										
			Pump price:	Nos.	3						
			Motor price:	Nos.	BHEL SCOPE						
			Forced Water Lubrication System	Set	1						
			Mandatory Spares (as per Annexure -A)	Lot	1						
	(ii) RAW WATER (ASH) PUMPS										
			Pump price:	Nos.	3						
			Motor price:	Nos.	3						
			RE Joint:	Nos.	3						
			Forced Water Lubrication System	Set	1						
			Mandatory Spares (as per Annexure -A)	Lot	1						
2.0	SITE SERVICES:										
2.1	Installation Check (For all Pumps) at Site as per Specification										
2.1.1	Site Visit Charges	Nos. of Visits	6								
2.1.2	Manday Charges at Site	Nos. of Mandays	18								
2.2	Lumpsum cost for PG Test of pumps at site as per Specification	Lot	1								
	TOTAL (1.0+ 2.0)										
NOTES:											
a)	Service charges at Sl.no 2.1.1. shall include to/fro travel expenses, medical and insurance.										
b)	Service Charges at Sl.no 2.1.2. shall include boarding/lodging, local conveyance or any other applicable charge for completion of site services. No. of mandays at site defined at Sl.no. 2.1.2 above shall be calculated on the basis of presence at site (travelling time/days is excluded).										
c)	Payment for Sl. No. 2.1 shall be done based on actual consumed site visits and mandays.										
d)	Price of commissioning & erection spares, special Tools & tackle and other accessories not listed above shall be included in the price of pump & shall be supplied with the pump.										
e)	For items stated as not applicable by bidder, shall have to be supplied without any cost implication to BHEL in the event they are found to be applicable during detail engineering stage.										
f)	Please refer technical specification for detail.										
g)	Mandatory Spare Note: 1. One(1) set consists of quantity required for complete replacement for one(1) Pump of each type/size. Also the 'set' would include all components/hardware required to replace the item. 2. 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 as specified in the Technical specification/NIT.										
Bidder shall furnish this price Schedule indicating "Quoted" against each item along with his technical offer and actual prices in his price offer.											

SCHEDULE OF PRICES -ANNEXURE-A MANDATORY SPARES OF MISC. PUMPS (VERTICAL) 2X800 MW LARA STPP STAGE-II												
S. NO.	ITEM DESCRIPTION		MANDATORY SPARE LIST	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)	FREIGHT %AGE OF TOTAL EX WORKS	FREIGHT AMT (INR)	TOTAL EX- WORKS + FREIGHT (INR)	GST RATE	GST AMT	TOTAL F.O.R. PRICE (INR)
1.0	MANDATORY SPARES PRICES-MISC PUMPS (VERTICAL)											
1.1	Raw Water (PT) Pumps	1.1.1	Impeller with nuts & washers	1 set								
		1.1.2	Bearings for Line, Head and Impeller shafts	1 set								
		1.1.3	Thrust Bearings of pump & drive	1 set								
		1.1.4	Wearing rings – Impeller (if applicable)	1 set								
		1.1.5	Wearing rings – Casing (if applicable)	1 set								
		1.1.6	Gland, packing & gland assembly	1 set								
		1.1.7	Impeller Shaft, line shaft and head shaft	1 set								
		1.1.8	Shaft Sleeves	1 set								
		1.1.9	Stuffing box	1 set								
		1.1.10	Pump & Drive Coupling, bushes, pins with all fasteners & coupling guards (as applicable)	1 set								
		1.1.11	All Gaskets	1 set								
		1.1.12	Line Shaft Couplings (if applicable)	1 set								
		Spares for Lubrication Water Pumps										
		1.1.13	Impeller with nuts and other accessories	1 set								
		1.1.14	Impeller Shaft with fasteners	1 set								
		1.1.15	Shaft Sleeves	1 set								
		1.1.16	Wearing rings – Impeller (if applicable)	1 set								
		1.1.17	Wearing Rings – Casing (if applicable)	1 set								
		1.1.18	Pump bearings	1 set								
		1.1.19	Thrust bearings	1 set								
		1.1.20	Pump & Drive Coupling compl. assy. & coupling Guards	1 set								
		1.1.21	Pump to drive coupling bushes with fasteners	1 set								
		1.1.22	Gland, Packing & Gland Assembly / Mech. seal as applicable	1 set								
		1.1.23	Motor for Lubrication Water Pumps	1 No								
		C&I Spares										
		1.1.24	Transmitters of all types and model. (for the measurement of Pressure, differential pressure, flow, level, etc.) including local indication (if applicable)	2 Nos. of each type and model.								
		1.1.25	RTD'S	1 no. of each type								
		1.1.26	Pressure gauges	1 no. of each range and type								
		1.1.27	Differential Pressure Gauges,	1 no. of each range and type								
		1.1.28	All types of Rota meters	1 no. of each range								
		1.1.29	Process Actuated Switch Devices -As applicable for this package, as per the following items									
		1.1.29 (a)	Flow switches	1 no. of each range and type								
		1.1.29 (b)	Solenoid Valves	2 nos. of each type, model and rating.								

