

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)
	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-508/512-100-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. Bidder shall not indicate "Not Applicable" against any of the spare (except for those items for which "if applicable" is specified). In case of not applicability, functionally equivalent spare to be mentioned with price in the relevant price schedules. Bidder shall not mention any remark other than price value in relevant						
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)
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 (If Applicable)				
		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.		

SCHEDULE OF PRICES - MISC PUMPS VERTICAL							
2X800 MW SINGRAULI STPP STAGE-III							
	DESCRIPTION OF WORKS OR EQUIPMENT(S)			UOM	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (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-508/512-100-W002, REV-00 for Misc. Pumps Vertical of 2X800 MW SINGRAULI STPP STAGE-III.						
1.0	Pumps and Motors (Vertical Pumps):						
	(i)	AUX. CT PUMPS					
			Pump price:	Nos.	4		
			Motor price:	Nos.	BHEL SCOPE		
			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	4		
2.1.2	Manday Charges at Site			Nos. of Mandays	16		
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 SI.no 2.1.1. shall include to/fro travel expenses, medical and insurance.						
b)	Service Charges at SI.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 SI.no. 2.1.2 above shall be calculated on the basis of presence at site (travelling time/days is excluded).						
c)	Payment for SI. 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. Bidder shall not indicate "Not Applicable" against any of the spare (except for those items for which "if applicable" is specified). In case of not applicability, functionally equivalent spare to be mentioned with price in the relevant price schedules. Bidder shall not mention any remark other than price value in relevant						
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 SINGRAULI STPP STAGE-III						
S. NO.	ITEM DESCRIPTION		MANDATORY SPARE LIST	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)
1.0	MANDATORY SPARES PRICES-MISC PUMPS (VERTICAL)					
1.1	AUX. CT 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	Flow gauges excluding Rota meters (if applicable)	1 no. of each range and type		
		1.1.29	All types of Rota meters (if applicable)	1 no. of each range		
		1.1.30	Process Actuated Switch Devices -As applicable for this package, as per the following items			
		1.1.30 (i)	Flow switches	1 no. of each range and type		
		1.1.30 (ii)	Solenoid Valves	2 nos. of each type, model and rating.		
		1.1.30 (iii)	Limit Switches (for Pneumatic Valves and Manual valves)	2 nos. of each type		
		1.1.31	Electric Actuators -As applicable for this package, as per the following items			
		1.1.31 (i)	Electric Actuators	1 no. of each type, class, size and model whichever is more.		
		1.1.31 (ii)	Electronic PCB of all types	(10% of each type & model)		
		1.1.31 (iii)	Absolute Encoder (replaceable part)	(5% of each type & model)		
		1.1.31 (iv)	Electronic Torque sensoR	(5% of each type & model)		