

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)
	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-508/512-100-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		
	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		

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. 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 (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)
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		
		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	DM MAKE-UP PUMPS	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		
		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 PUMPS	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		
		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		

SCHEDULE OF PRICES - MISC PUMPS HORIZONTAL					
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 & 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-508/512-100-W001, REV-00 for Misc. Pumps Horizontal of 2X800 MW SINGRAULI STPP STAGE-III.				
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) RAW WATER (PT) PUMPS				
	Pump price:	Nos.	3		
	Motor price:	Nos.	3		
	Mandatory Spares (as per Annexure -A)	Lot	1		
	(viii) RAW WATER (ASH) PUMPS				
	Pump price:	Nos.	3		
	Motor price:	Nos.	3		
	Mandatory Spares (as per Annexure -A)	Lot	1		
	(ix) SERVICE WATER PUMPS				
	Pump price:	Nos.	3		
	Motor price:	Nos.	3		
	Mandatory Spares (as per Annexure -A)	Lot	1		
	(x) HVAC MAKE UP PUMPS				
	Pump price:	Nos.	2		
	Motor price:	Nos.	2		
	Mandatory Spares (as per Annexure -A)	Lot	1		

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SCHEDULE OF PRICES -ANNEXURE-A						
MANDATORY SPARES OF MISC. PUMPS (HORIZONTAL)						
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 (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	1.1.1	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		
1.3	ACW 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		
		1.4.1	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	DM MAKE-UP PUMPS	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		
		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	RAW WATER (PT) 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 of each type	2 sets		
		1.7.11	Motor Bearings of each type	1 set		
1.8	RAW WATER (ASH) 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 of each type	2 sets		
		1.8.11	Motor Bearings of each type	1 set		
1.9	SERVICE WATER PUMPS	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		
		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	HVAC MAKE UP 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		
		1.10.10	Motor and Motor Bearings of each type	1 set		

1.11	APH/ ESP 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	RTD's (1 no. of each type)	1 set		