			sc	CHEDULE OF PRICES - MISC 2X800 MW LARA ST				
			RIPTION OF WORKS O	R EQUIPMENT(S)	UOM	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)
	manufactu avoid dam Miscellane transporta requireme checks of with Mecha any other s	irer's and/or age of item cous Pumps tion to site, nts specifie pump moto anical Seal services, et	r his sub-contractors wo is during transportation is (along with Motors & n complete with all other d in the specification, si or set & supervision of re arrangement (as applic c. as per specification	nandatory spares as applicable),				
1.0	Pumps a	nd Motors	s (Horizontal Pumps):				
	(i)	DMCW T	G-AUX'S PUMPS					
			Pump price:		Nos.	6		
		+	Motor price:		Nos.	BHEL Scope 6		
		+	Suction Strainer: Mandatory Spares (as	nor Annovuro A)	Lot	1		
		1	imanuatory Spares (as	por Armenure -A)		<u> </u>		
	(ii)	DMCW S	G-AUX'S PUMPS					
			Pump price:		Nos.	6		
			Motor price:		Nos.	BHEL Scope		
		1	Suction Strainer: Mandatory Spares (as	ner Annevuro A \	Nos. Lot	6		
		1	ivianuatory Spares (as	per Annexure -A)	LUI	'		
	(iii)	ACW PU	MPS					
			Pump price:		Nos.	6		
			Motor price:		Nos.	BHEL Scope		
			Mandatory Spares (as	per Annexure -A)	Lot	1		
		D14 14 4 1	T LID DUMBO					
	(iv)	DM MAK	E-UP PUMPS		Nos.	2		
		+	Pump price:		Nos.	3		
		+	Motor price:			-		
			Suction Strainer:		Nos.	3		
		<u> </u>	Mandatory Spares (as	per Annexure -A)	Lot	1		
	(v)	BOILER	FILL PUMPS		Nos.	2		
		+	Pump price: Motor price:		Nos.	2		
			Suction Strainer:		Nos.	2		
		+	Mandatory Spares (as	per Annexure -A)	Lot	1		
			, ,	,				
	(vi)	CONDEN	ISATE TRANSFER PU	MPS				
			Pump price:		Nos.	2		
		1	Motor price: Suction Strainer:		Nos.	2		
		+	Mandatory Spares (as	per Annexure -A)	Lot	1		
				,				
	(vii)	CW MAK	E UP PUMPS					
		1	Pump price:		Nos.	3		
		1	Mondator Charge (as	nor Annoyuro A \	Nos. Lot	3		
		+	Mandatory Spares (as	per Annexure -A)	LUI	'		
	(viii)	SERVICE	WATER PUMPS					
	,,,,,		Pump price:		Nos.	3		
			Motor price:		Nos.	3		
		1	Mandatory Spares (as	ner Annexure -A \	Lot	1		
			oparos (as	po tillondio . t)				
	(ix)	HVAC M	AKE UP PUMPS					
			Pump price:		Nos.	2		
		1	Motor price:		Nos.	2		
		+	Mandatory Spares (as	per Annexure -A)	Lot	1		
	(x)	APH/ ES	P WASH PUMPS					
	1,	1	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					
	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:	Service charges at Sl.no 2.1.1. shall include to/fro travel expenses, medical at	nd insurance.						
	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).							
b)								
·		of presence at						
b)	mandays at site defined at Sl.no. 2.1.2 above shall be calculated on the basis	of presence at	site (travellii	ng time/days is exclude	ed).			
b)	mandays at site defined at SI.no. 2.1.2 above shall be calculated on the basis Payment for SI. No. 2.1 shall be done based on actual consumed site visits ar Price of commissioning & erection spares, special Tools & tackle and other a	of presence at nd mandays. accessories not	site (travellii	ng time/days is exclude	ed). e price of pump & shall be			
b) c)	mandays at site defined at SI.no. 2.1.2 above shall be calculated on the basis Payment for SI. No. 2.1 shall be done based on actual consumed site visits ar Price of commissioning & erection spares, special Tools & tackle and other a supplied with the pump. For items stated as not applicable by bidder, shall have to be supplied without	of presence at nd mandays. accessories not	site (travellii	ng time/days is exclude	ed). e price of pump & shall be			

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 SPAR	ES PRICE				
		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	DMCW TG-AUX'S	1.1.6	Thrust Bearings (if applicable)	2 sets		
	PUMPS	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		
		1.2.1	Shaft Sleeve (DE & NDE)	2 sets		
		1.2.1	Shaft	1 set		
		1.2.3	Impeller	1 set		
		1.2.4	Casing & impeller Wearing Ring	2 sets		
	DMCW SG-AUX'S PUMPS	1.2.5	Bearings for Pumps	2 sets		
		1.2.6	Thrust Bearings (if applicable)	2 sets		
1.2		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		
		1.3.1	Shaft Sleeve (DE & NDE)	2 sets		
		1.3.1	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	ACW PUMPS	1.3.6	Thrust Bearings (if applicable)	2 sets		
1.3	AUVV FUIVIFO	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		
			Wearing rings – Impeller for			
		1.4.2	each type (if applicable) Wearing rings – Casing for	1 set		
		1.4.3	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 1.4.6 Stuffing box for each type 1 set	
DM MAKE-LIP	
1.4 PUMPS Coupling between Pump &	
1.4.7 motor, bushes, pins with all 1 set	
fasteners & coupling Guards	
1.4.8 Pump bearings for each type 1 set	
Gland, Packing & Gland	
1.4.9 Assembly for each type	
Motor and Motor Pagrings of	
1.4.10 Notor and Motor Bearings of 1 set	
1.5.1 Impeller for each type 1 set	
1.5.2 Wearing rings – Impeller for	
each type (if applicable)	
1.5.3 Wearing rings – Casing for	
each type (if applicable)	
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 BOILER FILL PUMPS Coupling between Pump &	
1.5.7 motor, bushes, pins with all 1 set	
fasteners & coupling Guards	
The state of the s	
1.5.8 Pump bearings for each type 1 set	
Gland, Packing & Gland	
1.5.9 Assembly for each type	
Motor and Motor Rearings of	
1.5.10 Motor and Motor Bearings of aset type	
1.5.10 Motor and Motor Bearings of a set each type	
1.5.10 each type 1.6.1 Impeller for each type 1 set Wegging rings - Impeller for	
1.6.1 Impeller for each type 1.6.2 Wearing rings – Impeller for each type 1 set 1 set 1 set 1 set	
1.6.1 Impeller for each type 1.6.2 Wearing rings – Impeller for each type 1 set 1.6.3 Wearing rings – Casing for 1 set	
1.6.1 Impeller for each type 1 set 1.6.2 Wearing rings – Impeller for each type 1 set 1.6.3 Wearing rings – Casing for each type (if applicable) 1 set 1.6.3 Leach type (if applicable) 1 set	
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1	1		1	ı	1	1
		1.7.8	Pump bearings for each type	1 set		
		1.7.9	Gland, Packing & Gland Assembly for each type	1 set		
		4 =	Motor and Motor Bearings of			
		1.7.10	each type	1 set		
		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	SERVICE WATER PUMPS		Coupling between Pump &			
	. 5 5	1.8.7	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		
			cacii type			
		1.9.1	Impeller for each type	1 set		
			Wearing rings – Impeller for	1 361		
		1.9.2	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	HVAC MAKE UP 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		
		1.10.1	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		
	APH/ ESP WASH	1.10.6	Stuffing box for each type	1 set		
1.10	PUMPS		,,			
		1.10.7	Coupling between Pump & motor, bushes, pins with all	1 set		
		1.10.7	fasteners & coupling Guards	1 301		
			lastoriora a coupining Guards			
		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		
	•		, , , , , , , , , , , , , , , , , , , ,			

				RICES - MISC PUMPS H			
		DESCR	2X800 MW	SINGRAULI STPP STA	QUANTITY	UNIT EX-WORKS PRICE INCLUDING PACKING (INR)	TOTAL EX-WORKS PRICE INCLUDING PACKING (INR)
	manufactu avoid dam Miscellane transporta requireme checks of with Mecha any others	irer's and/o lage of item lous Pumps tion to site, nts specifie pump moto anical Seal services, et	manufacture, assembly, inspection and the issub-contractors works, painting, programming transportation & storage at site of (along with Motors & mandatory spares as complete with all other accessories as ped in the specification, site services including set & supervision of replacement of glar arrangement (as applicable) at site, PG. cas per specification PE-TS-508/512-10 corizontal of 2X800 MW SINGRAULI STPI	per packing to of as applicable), or the ng installation nd packing est at site and 00-W001, REV-			
1.0	Pumps a	nd Motor	s (Horizontal Pumps):				
	(i)	DMCW T	G-AUX'S PUMPS				
			Pump price:	Nos.	6		
			Motor price:	Nos.	BHEL Scope		
			Suction Strainer:	Nos.	6		
	1	1	Mandatory Spares (as per Annexure -A) Lot	1		1
	/i:/	DMCW	G-AUX'S PUMPS				
	(ii)	DIVICW S	<u> </u>	Nos.	6		
	+	+	Pump price: Motor price:	Nos.	BHEL Scope		
			Suction Strainer:	Nos.	6		<u> </u>
			Mandatory Spares (as per Annexure -A		1		
	(iii)	ACW PU	-				
			Pump price:	Nos.	6		
		1	Motor price:	Nos.	BHEL Scope		
			Mandatory Spares (as per Annexure -A) Lot	1		
	(iv)	DM MAK	E-UP PUMPS	Nee	-		
		+	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)	CONDEN	ISATE TRANSFER PUMPS	N	-		
	+	+	Pump price: Motor price:	Nos.	2 2		-
	+	1	Suction Strainer:	Nos.	2		
			Mandatory Spares (as per Annexure -A		1		
					1		
	(vii)	RAW WA	TER (PT) PUMPS				
	1	1	Pump price:	Nos.	3		-
	1	+	Motor price:	Nos.	3		
	+	+	Mandatory Spares (as per Annexure -A) Lot	1		-
	(viii)	D ANA/ NA/ A	TER (ASH) PUMPS		+		-
	(VIII)	NAW WA	Pump price:	Nos.	3		
	+	+	• •	Nos.	3		
	+	+	Motor price:		1		
	1	1	Mandatory Spares (as per Annexure -A) Lot	1		<u> </u>
	(ix)	SEDVICE	WATER PUMPS	I	1		1
	(1X)	SERVICE	Pump price:	Nos.	3		
	+	+	• •	Nos.	3		
	+	+	Motor price:				-
	1	+	Mandatory Spares (as per Annexure -A) Lot	1		
		10000	AVE UD DUMPS				
	(x)	HVAC M	AKE UP PUMPS	Nos.	2		-
					. /		
	+	+	Pump price: Motor price:	Nos.	2		

					1	1		T
	(:)	A DULY EQ	P WASH PUMPS		+			
	(xi)	APH/ ES			Nos.	2		
-		-	Pump price:		Nos.	BHEL Scope		
		-	Motor price:	•	Lot	1		
			Mandatory Spares (as	per Annexure -A)	Lot	1		
2.0	SITE SERV	ICES:		<u> </u>				
2.1	Gland pack	king with -Aux's Pເ	Mechanical Seal (for I	ervision for replacement of DMCW TG-Aux's Pumps, mps, Boiler Fill Pumps and er Specification				
2.1.1	Site Visit C	harges			Nos. of Visits	30		
2.1.2	Manday Charges at Site					90		
2.2	Lumpsum	cost for F	PG Test of pumps at s	ite as per Specification	Lot	1		
			TOTAL (1.0+	2.0)				
					-			•
NOTES:	I							
a)	Service cha	arges at S	I.no 2.1.1. shall include	to/fro travel expenses, medical a	ind insurance.			
b)				boarding/lodging, local conveya shall be calculated on the basis				
c)	Payment fo	r Sl. No. 2	2.1 shall be done based	on actual consumed site visits a	nd mandays.			
d)	Price of cor supplied wit			pecial Tools & tackle and other a	accessories no	t listed above	shall be included in the p	rice of pump & shall be
e)	For items s detail engin			shall have to be supplied withou	t any cost impl	ication to BHE	L in the event they are fo	und to be applicable during
f)	Please refe	r technica	I specification for detail.					
g)	required to 2. Bidder sl	et consist replace th nall not ind equivalen	s of quantity required fo le item. licate "Not Applicable" a	r complete replacement for one(gainst any of the spare (except i	for those items	for which "if a	pplicable" is specified). Ir	n case of not applicability,
Bidder sh	nall furnish	this price	Schedule indicating '	'Quoted" against each item al	ong with his t	echnical offer	and actual prices in hi	s price offer.

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 SPAR	ES PRICE				
		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	DMCW TG-AUX'S	1.1.6	Thrust Bearings (if applicable)	2 sets		
	PUMPS	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		
		1.1.1	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		
	DMCW SG-AUX'S PUMPS	1.1.5	Bearings for Pumps	2 sets		
4.0		1.1.6	Thrust Bearings (if applicable)	2 sets		
1.2		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		
		1.1.1	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		
1.3	ACW PUMPS	1.1.6	Thrust Bearings (if applicable)	2 sets		
1.0	ACVV I DIVIES	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		
			Wearing rings – Impeller for			
		1.4.2	each type (if applicable) Wearing rings – Casing for	1 set		
		1.4.3	each type (if applicable)	1 set		
		1.4.4	Shaft for each type	1 set		

	1	r	_		
		1.4.5	Shaft Sleeves for each type	1 set	
	DM MAKE-UP	1.4.6	Stuffing box for each type	1 set	
1.4	PUMPS	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	
		1.5.1	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	BOILER FILL PUMPS	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	
			, ,		
		1.6.1	Impeller for each type	1 set	
		1.6.1 1.6.2	Wearing rings – Impeller for each type (if applicable)	1 set 1 set	
			Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for		
		1.6.2	Wearing rings – Impeller for each type (if applicable)	1 set	
		1.6.2 1.6.3 1.6.4 1.6.5	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable)	1 set 1 set	
	CONDENSATE	1.6.2 1.6.3 1.6.4	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type	1 set 1 set 1 set	
1.6	CONDENSATE TRANSFER PUMPS	1.6.2 1.6.3 1.6.4 1.6.5	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type	1 set 1 set 1 set 1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all	1 set 1 set 1 set 1 set 1 set 1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.6.9 1.6.10	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type Impeller for each type	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.6.9 1.6.10	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type Impeller for each type Wearing rings – Impeller for each type (if applicable)	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.6.9 1.6.10	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type Impeller for each type Wearing rings – Impeller for	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.6.9 1.6.10 1.7.1 1.7.2 1.7.3 1.7.4	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type Impeller for each type Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.6.9 1.6.10 1.7.1 1.7.2 1.7.3 1.7.4 1.7.5	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type Impeller for each type Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type	1 set 1 set	
1.6	TRANSFER PUMPS	1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.6.9 1.6.10 1.7.1 1.7.2 1.7.3 1.7.4	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type Impeller for each type Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type	1 set	
1.6		1.6.2 1.6.3 1.6.4 1.6.5 1.6.6 1.6.7 1.6.8 1.6.9 1.6.10 1.7.1 1.7.2 1.7.3 1.7.4 1.7.5	Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type Shaft Sleeves for each type Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards Pump bearings for each type Gland, Packing & Gland Assembly for each type Motor and Motor Bearings of each type Impeller for each type Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) Shaft for each type	1 set 1 set	

1.7.8 Pump bearings for each type 1 set 1.7.9 Gland, Packing & Gland 1 set 1.7.10 Motor of each type 2 sets 1.7.11 Motor Bearings of each type 1 set 1.8.1 Impeller for each type 1 set 1.8.2 Wearing rings – Impeller for each type 1 set 1.8.2 Wearing rings – Casing for 1 set 1.8.3 Wearing rings – Casing for 1 set	
Assembly for each type 1.7.10 Motor of each type 2 sets 1.7.11 Motor Bearings of each type 1.8.1 Impeller for each type 1 set 1.8.2 Wearing rings – Impeller for each type (if applicable)	
1.7.10 Motor of each type 2 sets 1.7.11 Motor Bearings of each type 1 set 1.8.1 Impeller for each type 1 set 1.8.2 Wearing rings – Impeller for each type (if applicable) 1 set	
1.7.11 Motor Bearings of each type 1 set 1.8.1 Impeller for each type 1 set 1.8.2 Wearing rings – Impeller for each type (if applicable) 1 set	
1.8.1 Impeller for each type 1 set 1.8.2 Wearing rings – Impeller for each type (if applicable) 1 set	
1.8.2 Wearing rings – Impeller for each type (if applicable)	
each type (if applicable)	
each type (if applicable) 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	
DAW WATER (ASH)	+
1.8 PUMPS Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards	
1.8.8 Pump bearings for each type 1 set	
1.8.9 Gland, Packing & Gland Assembly for each type	
1.8.10 Motor of each type 2 sets	
1.8.11 Motor Bearings of each type 1 set	
moter Boarings of such type	
1.9.1 Impeller for each type 1 set	
1.9.2 Wearing rings – Impeller for each type (if applicable)	
1.9.3 Wearing rings – Casing for each type (if applicable)	
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 SERVICE WATER PUMPS 1.9.7 Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards 1.9.7 Installing box to each type in the second point of the second point in the second point	
1.9.8 Pump bearings for each type 1 set	
1.9.9 Gland, Packing & Gland Assembly for each type	
1.9.10 Motor and Motor Bearings of each type	
1.10.1 Impeller for each type 1 set	
1.10.2 Wearing rings – Impeller for each type (if applicable)	
1.10.3 Wearing rings – Casing for each type (if applicable)	
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 HVAC MAKE UP PUMPS Coupling between Pump & notor, bushes, pins with all 1 set	
fasteners & coupling Guards	
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	

	1.11.1	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		
APH/ FSP WASH	1.11.6	Stuffing box for each type	1 set		
PUMPS	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		
	APH/ ESP WASH PUMPS	1.11.2 1.11.3 1.11.4 1.11.5 1.11.6 PUMPS 1.11.7 1.11.8 1.11.9	APH/ ESP WASH PUMPS 1.11.2 Wearing rings – Impeller for each type (if applicable) Wearing rings – Casing for each type (if applicable) 1.11.4 Shaft for each type 1.11.5 Shaft Sleeves for each type 1.11.6 Stuffing box for each type Coupling between Pump & motor, bushes, pins with all fasteners & coupling Guards 1.11.8 Pump bearings for each type 1.11.9 Gland, Packing & Gland Assembly for each type	1.11.2 Wearing rings - Impeller for each type (if applicable) 1 set	APH/ ESP WASH PUMPS 1.11.2 Wearing rings – Impeller for each type (if applicable) 1.11.3 Wearing rings – Casing for each type (if applicable) 1.11.4 Shaft for each type 1 set 1.11.5 Shaft Sleeves for each type 1.11.6 Stuffing box for each type 1 set 1.11.7 Coupling between Pump & 1 set 1.11.7 motor, bushes, pins with all fasteners & coupling Guards 1.11.8 Pump bearings for each type 1 set 1.11.9 Gland, Packing & Gland Assembly for each type 1 set 1 set