

RDA-RAIPUR STP PROJECT

Subject: O&M SPARES (along with visit charges) FOR 10 YEARS FOR EACH STP (7,7.4,4.3,3

Doc. No. : PESD/O&M Spare/RDA/WS/01,R02

Sl.no	Item description	No. of Units (Nos.)	Spare required for Each Equipment for 10 Years
A	Proprietary Items Package (SFC)	1	
1	Level switch		12
2	Power supply for PLC		4
3	Digital Input card		4
4	Digital output card		4
5	Analogue Input Card		4
6	Analogue output card		4
7	DIFFUSERS		0.6
8	Other decanter spares		0.3
9	PLC OEM services including visit charges	per diem	40
10	Non PLC OEM (Decanter, Diffuser) Visit Charges	per diem	
B	MANUAL COARSE SCREEN	1	
1	Screen accessories		1
C	MECHANICAL COARSE SCREEN	1	
1	Sprockets		2
2	Bearings for drive shaft		2
3	Wiper		1
4	Rake		2
5	Torque gaured spring		4
6	External circlip		10
7	Special end link		4
8	Chain		1
9	Chain link pin		4
10	Ceramic bush		4
11	Garmex bush		4
12	Torque arm bush		2
13	Torque Switch		4
14	Timer		2
15	Electronic Protection Motor Relay		1
16	Single Phase Preventer- VSP (SPP1)		2
17	Contactora (Motor Main Contactora-110v AC Coil)		2
18	Add on block 2NO+2NC		2
19	Plug-in Control Relay 2NO 2NC		2
20	Indicating Crystal LED Lamp Amber 110v AC (22.5 dia.)		2
21	Indicating Crystal LED Lamp Red 110v AC (22.5 dia.)		2
22	Indicating Crystal LED Lamp Green 110v AC (22.5 dia.)		2
23	Local Push Button Station (Stop, Start, Reset) with 1NO + 2NC		2
24	On/ Off Cyclic Timer 1 sec. to 60 min. 110v AC		2
25	Geared Motor		1
26	OEM services including visit charges	per diem	20
D	MANUAL FINE SCREEN	1	

2	Squeegees		2
3	Oil seal for drive head		2
4	Mercury switch		2
5	motor bearings		2
6	O-rings, Gaskets and other seals		2
7	OEM services including visit charges	per diem	20
G	POLYMER DOSING SYSTEM	1	
1	Mechanical Seals		2
2	Pump Bearing Set		2
3	O Rings		2
4	Plunger		2
5	Pump Motor Bearings		2
6	Agitator Motor Bearings		2
7	Ball valve		2
8	Strainer		2
9	Spare pump with motor		1
10	Impeller with shaft for agitator		1
H	CHLORINATION SYSTEM	1	
1	Gas Filter Element		2
2	Ejector		1
3	Booster pump spares		1
4	Re-circulation pump spares		1
5	Blower spares		1
6	Diffuser elements		1
7	O-rings and Gaskets or piping components		1
8	Instrument spares (LG, LS, VG, FI, PG and PS)		1
9	Manual Valves of each type		1
10	OEM services including visit charges	per diem	20
	Spares price for each STP with Escalation due to time		
	Spares price for 4 STPs		
Note: 1. The mentioned spares list is for each STP plant and for a period of 10 Year			
2 The mentioned O&M spares are preliminary & Final Data Shall be furnished after order placement.			
3 Consumables list furnished separately and hence not included in this list			

RDA-RAIPUR STP PROJECT

Subject: O&M SPARES FOR 10 YEARS FOR Each STP (FOR 1.79 AND 0.872 MLD)

Sl.no	Item description	No. of Units (Nos.)	Spare required for Each Equipment for 10 Years
A	Proprietary Items Package (SFC)	1	
1	Level switch		6
2	Power supply for PLC		2
3	Digital Input card		2
4	Digital output card		2
5	Analogue Input Card		2
6	Analogue output card		2
7	DIFFUSERS		0.8
8	Other decanter spares		0.3
9	PLC OEM services including visit charges	per diem	10
10	Non PLC OEM service including visit charges	per diem	
B	Manual Coarse Screens	2	
1	Screen (SS perforated sheet)		1
C	Manual Fine Screens	2	
1	Screen (SS perforated sheet)		1
D	Polymer Dosing System	1	
1	Mechanical Seals		2
2	Pump Bearing Set		2
3	O Rings		2
4	Plunger		2
5	Pump Motor Bearings		2
6	Agitator Motor Bearings		2
7	Ball valve		2
8	Strainer		2
9	Spare pump with motor		1
10	Impeller with shaft for agitator		1
11	OEM services including visit charges	per diem	20
E	NaoCl Dosing System	1	
1	Mechanical Seals		2
2	Pump Bearing Set		2
3	O Rings		2
4	Plunger		2
5	Pump Motor Bearings		2
6	Agitator Motor Bearings		2
7	Ball valve		2
8	Strainer		2
9	Spare pump with motor		1
10	Impeller with shaft for agitator		1
11	OEM services including visit charges	per diem	20

RDA-RAIPUR STP PROJECT

Subject: CONSUMABLES FOR 10 YEARS FOR Each STP

Sl.no	Item description	No. of Units (Nos.)	Spare required for Each Equipment for 10 Years
A	Chemical Lab Package	2	
1	Chemicals and reagent		1
2	Lab equipment, instrument and glass ware spare		0.1
B	Chemicals		
1	HYPO (liquid chlorination)	kgs	
2	Chlorine gas	khc	
3	Polymer		
C	Lubricants		
	OIL Grade -460		
	GREASE - INDUSTRIAL GRADE		

Notes:

- 1 The mentioned O&M spares are preliminary & Final Data Shall be furnished after order placement.
- 2 Consumables list furnished separately and hence not included in this list