



**Blank Price Bid TG & AUX and BOP "Part B"**

Equipment/area	Job No	Job Description	UOM	1st Year			2nd Year			3rd Year		
				Quantity	Rate/Unit	Amount	Quantity	Rate/Unit	Amount	Quantity	Rate/Unit	Amount
<b>TG &amp; Auxiliaries</b>												
<b>BFP-TURBINE/MOTOR DRIVEN</b>	1	PM of MDBFP/ TDBFP	Nos	12			12			12		
	2	Replacement of BFP cartridge	Nos	1			1			1		
	3	Coupling inspection (BFP+HC,HC+Motor, Motor+Booster Pump)	Nos	1			1			1		
	4	Replacement of One set of couplings	Nos	2			2			2		
	5	Bearing inspection & rectification of BFP	Nos	2			2			2		
	6	DE/NDE mechanical seal replacemt of BFP	Nos	3			3			3		
	7	Oil catcher inspection & replacement OF BFP/Booster pump	Nos	3			3			3		
	8	Booster & BFP Suction strainer cleaning	Nos	20			20			20		
	9	ALIGNMENT OF MOTOR WITH HYDRAULIC COUPLING, BOOSTER PUMP,Hyd. Coupling & MAIN PUMP/ALIGNMENT OF TURBINE WITH GEAR BOX & BOILER FEED PUMP,GEAR BOX & BOOSTER PUMP	Nos	1			1			1		
	10	Alignment of BFP with HC or Turbine/Alignment of Booster pump with motor or Gear box	Nos	2			2			2		
	11	Hydraulic coupling fusible plug replacement if required	Nos	2			2			2		
	12	Oil centrifuging/replacement if required in Hyd.coupling	Nos	2			1			1		
	13	MDBFP Lube Oil/working oil Cooler cleaning	Nos	2			2			2		
	14	DE/NDE Bearing replacement/inspection of Booster pump	Nos	2			2			2		
	15	DE/NDE mechanical seal replacemt of Booster pump	Nos	4			3			3		
	16	Internal inspection/parting plane gasket replacement of Booster pump	Nos	1			1			1		
	17	DE/NDE bearing inspection of Turbine	Nos	2			2			2		
<b>TDBFPs Lube Oil system</b>	18	PM of lube oil pump	Nos	32			32			32		
	19	PM of Emergency oil pump	Nos	16			16			16		
	20	PM of Jacking oil pump	Nos	16			16			16		
	21	PM of Transfer oil pump	Nos	16			16			16		
	22	PM of Oil vapor extractor fan	Nos	32			32			32		
	23	TDBFP Lube Oil Pump Alignment/coupling Replacement	Nos	2			2			2		
	24	TDBFP Lube Oil Pump Mechanical seal Replacement/Serviceing	Nos	2			2			2		
	25	TDBFP Emergency Oil Pump Alignment/coupling Replacement	Nos	2			2			2		
	26	TDBFP Emergency Oil Pump Mechanical seal / Brg Replacement/Serviceing	Nos	1			1			1		
	27	TDBFP Jacking Oil Pump Serviceing/coupling replacement	Nos	2			2			2		
	28	TDBFP Lube Oil Cooler Leakages/Flange leakages	Nos	2			2			2		

<b>Condensate Extraction pumps</b>	29	PM of CEP	Nos	12			12			12		
	30	Replacement of CEP cartridge	Nos	1			1			1		
	31	Replacement of Mechanical seal	Nos	3			3			3		
	32	Coupling inspection & alignment	Nos	2			2			2		
	33	Replacement of couplings	Nos	1			1			1		
	34	Bearing inspection /Replacemnt	Nos	2			2			2		
	35	Suction strainer cleaning	Nos	20			12			10		
<b>Condenser Vaccum Pumps</b>	36	PM of Vacuum pump & Recirculation Pump	Nos	8			8			8		
	37	NDE Bearing inspection/Replacement	Nos	1			1			1		
	38	DE Bearing inspection/Replacement	Nos	1			1			1		
	39	Coupling inspection & alingments	Nos	2			2			2		
	40	PHE/cooler cleaning	Nos	3			3			3		
<b>SG &amp; TG Dmcw Pumps &amp; PHE</b>	41	PM of TG DMCW Pumps	Nos	24			24			24		
	42	PM of SG DMCW Pumps	Nos	16			16			16		
	43	TG/SG DMCW Pump -Alignment/ Coupling replacement	Nos	6			4			3		
	44	TG/SG DMCW Pump -Mech seal/ BRG replacement	Nos	6			4			3		
	45	Internal inspection/Rotor Replacement/parting plane gasket replacement-SG/TG Dmcw Pump	Nos	3			2			2		
	46	Discharge NRV inspection/Repair-SG/TG Dmcw Pump	Nos	2			2			2		
	47	Cleaning of PHE-SG DMCW	Nos	4			4			2		
	48	Cleaning of PHE-TG DMCW	Nos	5			5			2		
<b>Seal Oil System</b>	49	Attending PHE leakages if any	Nos	2			2			2		
	50	PM of Seal Oil pump AC	Nos	16			16			16		
	51	PM of Seal Oil pump DC	Nos	8			8			8		
	52	PM of Seal Oil Vacuum pump	Nos	16			16			16		
	53	PM of Bearing Chamber Exhaust fan	Nos	16			16			16		
	54	Servicing of Seal Oil Vacuum pump	Nos	2			2			2		
	55	Seal Oil Pump alignment/coupling replacement	Nos	2			2			2		
	56	Seal Oil Pump Mechanical Seal replacement/Servicing	Nos	3			3			3		
	57	Seal Oil Pump Replacement/Servicing	Nos	2			2			2		
	58	Servicing/Replacement of Brg. Chamber exh.Fan	Nos	3			3			3		
	59	Seal oil PHE Cleaning/ gasket Replacement	Nos	2			2			2		
<b>Dosing System</b>	60	PM OF H2 GAS DRIER	Nos	8			8			8		
	61	Refrigerant filling in gas drier	Nos	4			4			4		
	62	PM of Ammonia Dozing Pumps	Nos	16			16			16		
	63	PM of Ammonia Dozing Agitator	Nos	24			24			24		
	64	PM of Hydrazine Dozing Pumps	Nos	16			16			16		
	65	PM of Hydrazine Dozing Agitator	Nos	24			24			24		
	66	PM of Naoh Dozing Agitator	Nos	12			12			12		
	67	Coupling/NRV replacement of Pump/agitator	Nos	3			3			3		
	68	Service/repair of Ammonia Dozing Pumps	Nos	4			2			2		
	69	Service/repair of Hydrazine Dozing Pumps	Nos	4			2			2		

Primary water System	70	PM of Primary water pump	Nos	16			16			16		
	71	Bearing/Mechanical seal replacement of Primary water pump	Nos	4			2			2		
	72	Main filter cleaning/Replacement	Nos	3			2			1		
	73	Conical Mesh cleaning/Expansion bellow replacement of Primary water	Nos	4			4			4		
	74	Primary water PHE Cleaning/ gasket Replacement-1 No.	Nos	3			2			2		
	75	Primary Water Pump Alignment/coupling Replacement	Nos	2			2			2		
HP bypass,LP Bypass oil supply unit	76	PM of HP bypass control fluid pump	Nos	8			8			8		
	77	PM of HP bypass Recirculation Pump	Nos	4			4			4		
	78	PM of HP Bypass Oil Cooling Fan	Nos	4			4			4		
	79	Oil tank cleaning & Pump Suction filter cleaning of HP bypass oil unit	Nos	2			2			2		
	80	PM LP bypass control fluid pump	Nos	8			8			8		
	81	PM of LP bypass Recirculation Pump	Nos	8			8			8		
	82	PM of LP Bypass Oil Cooling Fan	Nos	8			8			8		
	83	PM of Regeneration Pump	Nos	4			4			4		
	84	Servicing/Replacement HPBP/ LPBP- Stop /control valve	Nos	2			1			1		
	85	Servicing/Replacement HPBP/LPBP -Spray valve	Nos	1			1			1		
86	Replacement of Accumulator bladder-1 no.	Nos	4			4			4			
HP heater,LP Heater, Dearator & FST	87	Flange Leakage attending from Shell side safety valve	Nos	4			4			4		
	88	Leakage attending from level gauge glass	Nos	4			4			4		
	89	Attending Tube leakage in HP/LP heater	Nos	2			2			2		
	90	Repair /Replacement of Tube side Safety valve	Nos	4			4			4		
	91	Inspection/Replacement of Dearator spray nozzle:	Nos	2			1			1		
	92	Cleaning of Feed storage tank	Nos	3			2			2		
Main TG- Lubrication & Control oil System	93	REMOVAL, CLEANING, INSPECTION OF TG BEARING PEDESTAL	Nos	1			1			1		
	94	TG Bearing lift adjustment	Nos	2			2			2		
	95	Attending oil leakage in Oil Supply Throttle/JOP hose union etc.	Nos	4			4			4		
	96	Mot/Central Lube. Centrifuge Servicing/Repair	Nos	2			2			2		
	97	Attending MOT cooler leakage/Flange Leakage	Nos	2			2			2		
	98	MOT Cooler cleaning -1 No.	Nos	2			2			2		
	99	PM OF TG CONTROL OIL PUMP	Nos	8			8			8		
	100	PM OF LEAKAGE OIL PUMP	Nos	4			4			4		
	101	PM OF COT PUMP	Nos	4			4			4		
	102	PM OF DOT PUMP	Nos	4			4			4		
103	Coupling/Bearing/Mechanical seal- Replacement/Servicing of Pump	Nos	4			4			4			
Gland Steam system,Condenser, Hot well & Dmcw Tank	104	PM OF GLAND STEAM EXT BLOW	Nos	8			8			8		
	105	Replacement/Decoupling of Gland steam blower	Nos	2			2			2		
	106	PM OF COLTCS PUMP	Nos	16			16			16		
	107	PM OF CONDENSER PIT PUMP	Nos	8			8			8		
	108	Replacement/Servicing of Condenser Pit pump	Nos	4			4			4		
	109	Cleaning of hot well	Nos	4			2			1		
	110	Attending leakage in condenser tubes	Nos	1			1			1		
	111	Cleaning of DMCW storage tank	Nos	3			2			1		
	112	Flood test of condenser	Nos	2			2			2		
	113	Condenser Water box Opening for Inspection	Nos	3			2			2		

CPU Regeneration system	114	PM OF ACID UNLOADING PUMP	Nos	8		8		8	
	115	PM OF ALKALI UNLOADING PUMP	Nos	8		8		8	
	116	PM OF ALKALI DOSING PUMP	Nos	8		8		8	
	117	PM OF ACID DOSING PUMP	Nos	8		8		8	
	118	PM OF CPU - N-PIT PUMP	Nos	4		4		4	
	119	PM OF HOTWELL MAKEUP PUMP	Nos	4		4		4	
	120	RINSE RECIRCULATION PUMP-1A	Nos	8		8		8	
	121	DRAIN PIT PUMP CPU-1A	Nos	8		8		8	
	122	RESIN TRANSFER PUMP-1A	Nos	8		8		8	
	123	REGENERATION PUMP-A	Nos	8		8		8	
	124	CPU REGENERATION BLOWER-A	Nos	8		8		8	
	125	ALKALY TRANSFER PUMP-A	Nos	8		8		8	
	126	ALKALY DOSING AGITATOR-A	Nos	8		8		8	
	127	Vessel inspection	Nos	3		3		3	
EOT Crane	128	Repair/Servicing of Alkali/Acid Ejector	Nos	3		3		3	
	129	Dechoking of power water line	Nos	3		3		3	
	130	PM of 180/35 ton TG Area EOT crane	Nos	4		4		4	
	131	PM of Electric/manual hoist,chain pulley block,under slung crane etc	Nos	6		6		6	
	132	PM of TDBFP area EOT crane	Nos	4		4		4	
	133	Load testing of hoists	Nos	12		12		12	
Miscellaneous Job	134	Hanger /support adjustment of pipeline	Nos	10		10		10	
	135	Sevicing/Lapping of MAL valve /MS Drain Valve	Nos	12		8		8	
	136	Servicing of Gas Drier	Nos	4		4		4	
	137	Coupling & Alignment of Motor up to 30 KW	Nos	12		12		12	
	138	Coupling & Alignment of Motor 30 to 90 KW	Nos	5		5		5	
	139	Coupling & Alignment of Motor 90 to 200 KW	Nos	5		5		5	
	140	Coupling & Alignment of Motor 201 to 1000 KW	Nos	2		2		2	
Pneumatic control valves	141	Removal & Assembly of Motorised actuators	Nos	20		20		20	
	142	Replacement of LP Turbine Rupture diaphragm	Nos	2		2		2	
	143	Servicing/pressure seal replacement of Pneumatic control valves size 100 to 200 NB	Nos	10		10		10	
REPLACEMENT OF HP VALVES	144	Servicing/pressure seal replacement of Pneumatic control valve size 201 to 350 NB	Nos	5		5		5	
	145	Servicing/pressure seal replacement of Pneumatic control valve size 351 to 500 NB	Nos	2		2		2	
	146	Size : Up to 80 NB	Nos	20		20		20	
REPLACEMENT OF LP VALVES	147	Size : 80 to 200 NB	Nos	1		1		1	
	148	Size : 200 to 350 NB	Nos	1		1		1	
	149	Size : Up to 80NB	Nos	20		20		20	
GLAND & GASKET REPLACEMENT/SERVICING OF VALVES	150	Size : 80 to 200 NB	Nos	5		5		5	
	151	Size : 200 to 350 NB	Nos	2		2		2	
	152	Size : 351 NB & above	Nos	2		2		2	
	153	Size : Up to 80 NB	Nos	10		10		10	
Welding leakages: as per scope of work, terms and conditions:Welding of LP pipings	154	Size : 80 to 200 NB	Nos	10		10		10	
	155	Size : 200 to 350 NB	Nos	10		10		10	
	156	Size : 351 NB & above	Nos	5		5		5	
Welding leakages: as per scope of work, terms and conditions:Welding of LP pipings	157	Size up to 80 NB	Nos	100		100		100	
	158	Size : 80 NB to 200 NB	Nos	15		15		15	
	159	Size : 200 NB and above	Nos	10		10		10	
	160	HP Piping up to 100 NB	Nos	20		20		20	

<b>ATTENDING LEAKAGE-OIL/WATER/STEAM</b>	161	Attending flange leakage/union leakage/ Replacing Gasket size 15 to 75 NB	Nos	80			80			80		
	162	Attending flange leakage/union leakage/ Replacing Gasket size 80 to 200 NB	Nos	30			30			30		
	163	Attending flange leakage/union leakage/ Replacing Gasket size 201 to 400 NB	Nos	10			10			10		
<b>Fabrication &amp; Erection - Pipes &amp; Structure Steel</b>	164	Size : upto 75 NB	Mtr	80			80			80		
	165	Size : 80 NB to 150 NB	Mtr	15			15			15		
	166	Fabrication & Erection of Structure Steel	MT	5			5			5		
	167	Erection of scaffolding	M3	400			400			400		
<b>Additional Manpower supply for Unforeseen jobs</b>	168	Helper	Mandays	240			240			240		
	169	Rigger	Mandays	240			240			240		
	170	Fitter/Grinder/cutter/welder	Mandays	120			120			120		
	171	Valve Technician/pipe fitter/Hydra operator/EOT Crane Operator	Mandays	60			60			60		
	172	Mill wright fitter/IBR welder	Mandays	60			60			60		
<b>Oppurtunity based jobs</b>	173	PM OF AUX. OIL PUMP TG LUBE OIL SYSTEM	Nos	1			1			1		
	174	PM OF EMERGENCY OIL PUMP-DC TG LUBE OIL SYSTEM	Nos	1			1			1		
	175	PM OF JACKING OIL PUMP-AC TG LUBE OIL SYSTEM	Nos	1			1			1		
	176	PM OF JACKING OIL PUMP-DC TG LUBE OIL SYSTEM	Nos	1			1			1		
	177	BASKET STRAINER CLEANING OF TG MOT	Nos	1			1			1		
<b>Round The clock shift assistance</b>	178	Round The clock shift assistance (Sup-1, Fitter-1, Rigger-1, Helper-1)	Mandays	1095			1095			1095		

**Balance of Plant (BOP)**

APH wash pump/Gravity filter feed pumps/AHP Sealing system make up pumps/Service water pumps/CHP Make-up water supply pump/Sludge Transfer pump (PTP)/CT Make-up pump/Cooling tower sludge pump/ACW Pumps	179	Preventive Maintenance of Pumps	Nos	56			56			56		
	180	Servicing/Overhauling of pump	Nos	1			2			2		
	181	Inspection/Replacement of bearing	Nos	5			5			4		
	182	Coupling inspection/replacement & alingments	Nos	2			2			2		
	183	Inspection/replacement of oil seal	Nos	1			1			1		
	184	Inspection/replacement of mech seal	Nos	1			1			1		
Clarrifloculators	185	Bridge wheel/bearing replacement(4 shafts/Bridge)	Nos	1			1			1		
	186	Bridge/Agitator Gear Box servicing/replacement	Nos	1			1			1		
	187	Bridge Agitator servicing	Nos	1			1			1		
	188	overhauling Flash mixture Agitator	Nos	1			1			1		
Raw water Pumps	189	Preventive Maintenance of Pumps	Nos	8			8			8		
	190	Servicing/Overhauling of pump	Nos	0			1			1		
	191	Inspection/Replacement of bearing	Nos	2			1			2		
	192	Coupling inspection/replacement & alingments	Nos	1			1			1		
CW PUMPS	193	PM of CW pumps	Nos	5			5			5		
	194	Servicing/Overhauling of CW Water pump	Nos	0			1			1		
	195	Inspection/Replacement of thrust bearing	Nos	1			1			1		
	196	Coupling inspection/replacement & alingments	Nos	1			1			1		
	197	Servicingof hydraulic system for cw discharge valve	Nos	1			1			1		
COOLING TOWER	198	PM of Cooling tower (Fan+Gear box)	Nos	144			144			144		
	199	Overhauling of CT Gear Box	Nos	1			1			1		
	200	CT Fan blade pitch setting	Nos	4			6			4		
	201	Replacement of CT Fan Blade	Nos	0			1			1		
	202	Replacement of CT Drive Shaft	Nos	0			1			1		
	203	Replacement of CT Gear Box Oil Seal	Nos	2			4			2		
	204	Removal of Hub from Gear Box	Nos	0			1			1		
	205	Fan Hub Replacement	Nos	0			1			1		
	206	Replacement of CT Gear Box.	Nos	2			2			2		
	207	Tightening of CT Fan fasteners.	Nos	4			8			6		
	208	Oil replacement/Top up of CT Gear box	Nos	48			48			48		
	209	CT basin cleaning		0			0			2		
Chemical Dosing & unloading Pump Positive displacement & centrifugal type(Alum/poly/scale/corrosion/biocide/sulphuric acid/Acid/alkali/Lime solution recirculation pump/Slaked Lime transfer Pump/dosing pumps for ETP)	210	PM of pumps	Nos	162			162			162		
	211	Suction & discharge NRV inspection/replacement	Nos	8			10			10		
	212	Servicing/Overhauling of pump	Nos	2			4			4		
	213	Bearing inspection/replacement	Nos	4			4			4		
	214	Coupling inspection/replacement & alingment	Nos	2			2			2		
	215	Replacement of oil seal	Nos	4			4			4		
	216	Replacement of mechanical seal	Nos	4			4			4		

Agitotr (alum/slacked/lime&poly/MB/Ani on/N-Pit/CIP/Scale/corrossion inhibitor/Bicide dosing/Chlorination/SMBS/Antisc alent/Ph correction))	217	PM	Nos	64			64			64		
	218	Servicing/overhauling of Agitator & GB	Nos	2			2			2		
DM Plant pumps(DM Transfer pump/Degassified water transfer pump/DM N-Pit Transfer pump/UF Backwash&forward pumps/Regeneration pump/CIP/Hotwell make up pump)	219	PM of pumps	Nos	66			66			66		
	220	Servicing/Overhauling of pump	Nos	2			2			2		
	221	Bearing inspection/replacement	Nos	3			4			4		
	222	Replacement of oil seal	Nos	3			4			4		
	223	Replacement of mechanical seal	Nos	2			4			4		
	224	Coupling inspection/replacement & alingment	Nos	2			2			2		
Air Blower(Deggaser/MB/RW &CW Chlorination/ETP-RO	225	PM of air blower	Nos	33			33			33		
	226	Servicing/overhauling of blower	Nos	2			2			2		
	227	Belt replacement	Nos	2			2			2		
CW Fill pumps	228	PM	Nos	4			4			4		
	229	Bearing inspection/replacement	Nos	1			1			1		
CW Fill vacuum pumps	230	PM	Nos	4			4			4		
Chlorination CW & RW System & CW Fill line(Booster pump/Caustic RC Pumps)	231	PM of pumps	Nos	24			24			24		
	232	Servicing/Overhauling of pump	Nos	1			1			2		
	233	Bearing inspection/replacement	Nos	2			2			2		
	234	Replacement of oil seal	Nos	2			2			2		
	235	Replacement of mechanical seal	Nos	2			2			2		
	236	Coupling inspection/replacement & alingment	Nos	2			2			2		
Hydrogen generating plantPumps & Compressors (Vaccum pump/DM Feed water/Chilled pump/Electrolyser circulating pumps/H2 Compressor dryer & purifier)	237	PM of Pumps	Nos	16			16			16		
	238	Servicing/Overhauling of pump	Nos	1			1			2		
	239	PM of H2 compressor	Nos	4			4			4		
	240	Servicing/overhaulings of compressors	Nos	1			1			1		
Fire hydrant system pumps( Hydrant/jockey/booster/foam/spr ay), Engines & compressors	241	PM of pumps	Nos	36			36			36		
	242	Servicing/Overhauling of pump	Nos	1			2			2		
	243	Bearing inspection/replacement	Nos	4			4			4		
	244	Replacement of mechanical seal	Nos	2			4			4		
	245	Coupling inspection/replacement & alingment	Nos	2			2			2		
	246	servicing/overhauling of Engine	Nos	6			6			6		
	247	servicing/overhauling of compressor	Nos	2			2			2		

Fire hydrant system Accessories	248	Inspection & testing of Fire protection system	Nos	4		4		4	
	249	Servicing of Hydrant valves	Nos	5		5		5	
	250	Inspection /replacement & checking of hydrant valve	Nos	5		6		10	
	251	Servicing of water monitors	Nos	2		2		2	
	252	Inspection /replacement & checking of water monitors	Nos	2		2		2	
	253	Servicing of Alarm Valve	Nos	4		4		4	
	254	Inspection /replacement & checking of alarm valve	Nos	4		4		4	
	255	Servicing of deluge valve	Nos	2		4		4	
	256	Inspection /replacement & checking of Deluge valve	Nos	2		3		4	
	257	Replacement of Nozzles in sprinkler system	Nos	50		80		100	
	258	Repair of underground fire fighting pipeline	Nos	4		6		10	
259	Replacement of underground fire fighting pipeline	MTR	6		12		18		
Effluent treatment pumps at differents area (Vertival pumps)	260	Preventive Maintenance of Pumps	Nos	48		48		48	
	261	Servicing/Overhauling of pump	Nos	2		2		3	
	262	Inspection/Replacement of bearing	Nos	3		4		5	
	263	Coupling inspection/replacement & alingment	Nos	2		2		2	
ETP-RO System Pumps (ETP-Filter feed pump/ETP-RO Permiate water pump/ETP-RO Permiate water Transfer pump/ETP-RO Reject water transfer pump/ETP-RO DMF Backwash pump/ETP-RO High Pressure pump/ETP-RO CIP pump	264	Preventive Maintenance of Pumps	Nos	36		36		36	
	265	Servicing/Overhauling of pump	Nos	1		1		2	
	266	Inspection/Replacement of bearing	Nos	2		2		3	
	267	Coupling inspection/replacement & alingment	Nos	2		2		2	
	268	Replacement of mechanical seal	Nos	2		3		4	
	269	RO Membrane flushing/cleaning	Nos	12		12		12	
Compressed air system	270	PM of service air compressors	Nos	9		9		9	
	271	PM of instrument air compressor	Nos	6		6		6	
	272	servicing of SAC	Nos	2		2		2	
	273	servicing of IAC	Nos	2		2		2	
	274	Cleaning/servicing of dryers	Nos	2		2		2	
Stop Log gates/Sluice gates	275	Servicing/Overhauling of stop log gates	Nos	1		1		2	
Regeneration system	276	Replacement of MSRL Pipe/CPVC pipe	MTR	60		50		30	
	277	Replacement/repairing of injector	Nos	2		2		2	
	278	De-chocking of Acid line	Nos	4		4		4	
	279	Acid/caustic Unloading from tanker	Nos	12		12		12	
EOT/Hoist/Manual hoist etc	280	PM of Electric/manual hoist,chain pulley block,under slung crane etc	Nos	24		24		24	
	281	PM of EOT for CW pumps	Nos	2		2		2	
Replacement of valves	282	350NB to 600 NB	Nos	1		1		2	
	283	100NB to 300NB	Nos	4		4		6	
	284	50NB to 100NB	Nos	5		8		10	
	285	upto 50NB	Nos	25		15		12	
	286	above 500 NB	Nos	2		2		4	
Servicing of Valves (MIV,MOV,gate,globe,butterfly,dia phragm, NRVetc)	287	350NB to 500 NB	Nos	2		4		5	
	288	100NB to 300NB	Nos	4		4		5	
	289	50NB to 100NB	Nos	4		6		6	
	290	3/8-1 inch	Nos	15		15		15	
Gland Replacement/Tightening of Valves	291	1.5 - 2 inch	Nos	10		10		10	
	292	2.5 - 8 inch	Nos	10		10		10	
	293	10-14 inch	Nos	10		10		10	



Fabrication/ Erection/replacement of Piping System	294	Up to 80 NB	mtr	150		80		60	
	295	100NB TO 200 NB	mtr	24		24		24	
	296	250NB & Above	mtr	12		12		12	
Cutting	297	Cutting Carbon Steel	mtr	100		100		100	
Welding	298	Welding Carbon Steel	mtr	200		175		175	
	299	Welding alloy/SS Steel	mtr	35		35		35	
Welding joints/leakages	300	Up to 25 NB	Nos	30		30		30	
	301	32 NB to 65 NB	Nos	25		25		25	
	302	80NB to 150 NB	Nos	20		20		20	
	303	200 NB to 300 NB	Nos	10		10		10	
	304	350NB & ABOVE	Nos	5		5		5	
Attending oil/water/air or acid Leakages (Flange/union/Gasket replacement/pipe clamping/any other clamping. Etc...)	305	Size up to 75 NB	Nos	75		55		50	
	306	Size : 80 NB to 150 NB	Nos	40		35		30	
	307	Size : 150 NB to 250 NB	Nos	25		20		20	
	308	Size : 300 NB to 450 NB	Nos	10		10		10	
	309	Size : Above 450	Nos	6		6		6	
Tanks & Pressure Vessels	310	Internal cleaning/inspection of water tanks	Nos	2		2		2	
	311	Internal cleaning/inspection of chemical tanks	Nos	2		2		2	
	312	Assisting in rubber lining works	Nos	2		2		2	
Fabrication & Erection of Steel Structure	313	Fabrication & Erection of steel structure	MT	8		5		4	
Application of Paint(Enamel)	314	Application of paint	Sq Mt	200		150		120	
Erection of scaffolding	315	Erection/Dismantling of scaffolding	Cu mt	350		300		300	
Load Testing of EOT/Hoist/Chain Pulley	316	Load Testing upto 10 tons	Nos	13		13		13	
Bearing Replacement of HT Motors	317	Bearing Replacement of HT Motors	Nos	1		1		1	
Attending gland leakages of pumps	318	Attending gland leakages of pumps	Nos	100		80		80	
Decoupling/coupling & alignments of motors	319	Decoupling/coupling & Alignment of Motor up to 15 KW	Nos	10		12		12	
	320	Decoupling/coupling & Alignment of Motor 15 to 30 KW	Nos	5		8		8	
	321	Decoupling/coupling & Alignment of Motor 30 to 90 KW	Nos	5		5		5	
	322	Decoupling/coupling & Alignment of Motor 90 to 200 KW	Nos	5		5		5	
	323	Decoupling/coupling & Alignment of Motor above 1000 KW	Nos	1		1		1	
Manpower supply for unforesing jobs	324	Helper	Manda ys	240		240		240	
	325	Rigger	Manda ys	120		120		120	
	326	Fitter/Grinder/cutter/welder	Manda ys	120		120		120	
	327	Valve Technician/pipe fitter/Hydra operator/EOT Crane Operator	Manda ys	60		60		60	
	328	Mill wright fitter/IBR welder	Manda ys	60		60		60	

Strainers & filter cleaning	329	Cleaning/replacement of Y- Type strainer upto 50 NB	Nos	40			35			35		
	330	Cleaning/replacement of Y- Type strainer 65NB to 150NB	Nos	25			20			20		
	331	Cleaning/replacement of Y- Type strainer 200 NB & above	Nos	10			8			8		
	332	Cleaning/replacement of Basket strainer/cartridge filters upto 100 NB	Nos	15			12			12		
	333	Cleaning/replacement of Basket strainer/cartridge filters 150NB to 350NB	Nos	12			10			10		
	334	Cleaning/replacement of basket strainer/cartridge filters above 350 NB	Nos	5			5			5		
	335	Cleaning/servicing of ACW strainer		2			2			2		
	336	Cleaning of Coarse screen	Nos	2			2			2		
Gauge glass/view glass replacement	337	Gauge glass/view glass replacement& rectification	Nos	10			10			10		
Pipe support provision/rectification/modification	338	Provision/modification/rectification of supports piping/ valve	Nos	5			4			4		
Dewatering	339	Dewatering at various pits	Nos	15			18			18		
	340	Maintenance of dewatering pumps	Nos	4			4			4		
Actuators	341	Removal & Assembly of actuators from the position	Nos	20			20			20		
<b>Total amount</b>												
<b>GST as applicable</b>												
<b>Gross total amount</b>												

**Note:**

- 1) 5 % escalation shall be considered for Unit rate in 2nd year & 3rd year subsequently.
- 2) Contract price shall be firm throuout the contract period irrespective of revision in daily wage rate.

