

Sl. No.	Job Description	UOM	1st Year Cost		
			Qty.	Unit Rate (Rs.)	Amount (Rs.)
	Mechanical Maintenance				
1.0	CONVEYOR SYSTEM				
1.1	Skirt board segment rubber replacement (running meter.)	Mtr	200		
1.2	Skirt board rubber segment adjustment (running meter.)	Mtr	2500		
1.3	Adjustment of primary scrapper rubber	No.s	399		
1.4	Replacement of primary Scrapper rubber	No.s	29		
1.5	Adjustment/Replacement of chute sealing rubber	No.s	177		
1.6	Fabrication/fixing of scrapper board & scrapper belt fixing	No.s	17		
1.7	Back plate sealing with segment rubber	No.s	15		
1.8	Idlers (two piece/three piece) replacement	No.s	1499		
1.9	Repair of idlers	No.s	35		
1.10	Idler frame replacement	No.s	60		
1.11	Offline repair of Idler frame	No.s	20		
1.12	Training of conveyor belt (with & without load)	No.s	17		
1.13	Guide roller Replacement	No.s	69		
1.14	Guide roller frame fabrication & roller fitting	No.s	2		
1.15	Guide roller frame repair	No.s	1		
1.16	Any drive pulley repair/replacement.	No.s	1		
1.17	Any non-drive pulley repair/ replacement	No.s	5		
1.18	Replacement of seal plate or deck plate.	No.s	500		
1.19	Belt sway adjustment	No.s	300		
1.20	Counter weight loading/unloading of conveyor, (Loading / unloading in each conveyor will be considered as one unit)	Unit	6		
1.21	Take-up rectification of any CHP conveyor	No	4		
1.22	Rail line alignment of shuttle/ reversible feed conveyors. Rectification over 10 mtrs of rail on both sides will be treated as one unit	mtrs	10		
1.23	Belt replacement of Coal Sampler unit.	No	1		
1.24	Clearing of mechanical jamming of coal sampler crusher	No	2		
1.25	Repair and replacement of self cleaning idler	No	20		
	SECTION-II				
2	CONVEYOR DRIVE SYSTEM				
2.1	Replacement of bearing of conveyor non drive pulley	No	8		
2.2	Replacement of bearing of conveyor drive pulley	No	4		
2.3	Replacement/Repair of plumber blocks	No	6		
2.4	Hold back repair & replacement	No	1		
2.5	Off Line Overhauling of Gearboxes in CHP conveyors	No	6		
2.6	Input shaft replacement of any CHP gear box (Conveyors/slewing/ bucket wheel)	No	3		
2.7	Input and 1st intermediate shaft replacement	No	1		
2.8	Intermediate shaft replacement	No	1		
2.9	Internals replacement of any gear box	No	1		
2.10	Oil seal / diaphragm replacement of Gear box	No	20		
2.11	Overhauling of winch gear boxes	No	1		
2.12	Out put shaft of gear box replacement	No	1		
2.13	Complete gear box replacement of any conveyor / Equipment	No	1		
2.14	Input bearing replacement of gear box	No	20		
2.15	Output bearing replacement of gear box	No	8		
2.16	Replacement of intermittent bearing of gear box	No	14		
2.17	Gear coupling replacement	No	2		
2.18	Off line Overhauling/repair of fluid coupling	No	6		
2.19	Replacement of fluid coupling	No	4		
2.20	Oil seal replacement of fluid coupling	No	15		
2.21	Alignment of drives of any CHP conveyors	No	8		
2.21	Oil leakage rectification in Gear boxes	No	1		

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			Qty.	Unit Rate (Rs.)	Amount (Rs.)
2.23	Replacement of cooling fan of gearbox of conveyor	No	2		
2.24	Replacement of pin bush of coupling between motor and gearbox	No	5		
2.25	Replacement of pin bush of coupling between g. box and M/c	No	5		
2.26	Take up trolley overhauling	No	1		
2.27	Balancing of any drive	No	1		
2.28	Replacement /Re-fixing of level of gearboxes and hyd. tanks	No	1		
2.29	Thruster brake drum replacement	No	1		
2.30	Overhauling/servicing/replacement of lube oil pumps of g.box	No	2		
	SECTION-III				
3	CONVEYOR BELTS				
3.1	Take up lifting.	No	40		
3.2	Belt overlap joint (hot vulcanizing)				
b)	If hot solution & compounds supplied by ITPS free of cost	No	1		
3.3	Belt overlap joint (cold joint)				
b)	If Cold solution & hardner supplied by ITPS free of cost	No	40		
3.4	Belt pulling in running meter.	Mtr	1000		
3.5	Belt laying in running meter	Mtr	1500		
3.6	Removal and re-fixing of conveyor hoods	No	7		
3.7	Belt patching with cold solution.				
b)	If Cold solution & hardner supplied by ITPS free of cost	No	350		
3.8	Pulley lagging of drive pulleys				
b)	If Cold solution & hardner supplied by ITPS free of cost	No	2		
3.9	Pulley lagging of non drive pulleys				
b)	If Cold solution & hardner supplied by ITPS free of cost	No	23		
3.10	Over band magnetic separator belt replacement	No	2		
3.11	Rectification of belt folding	No	6		
3.12	Hot spot vulcanising				
b)	If solution and compound supplied by ITPS free of cost	No	4		
	SECTION-IV				
4	TRANSFER HOUSE				
4.1	Over band magnetic separator over-hauling	No	1		
4.2	Bearing replacement of over band magnetic separator	No	4		
4.3	Pulley replacement/repair of over band magnetic separator	No	1		
4.4	Angle fitting of OBMS	Unit	5		
4.5	Replacement of flap gate actuators.	No	2		
4.6	Flap gates opening/closing by Hook chuck	No	1		
4.7	Flap gate actuator gear replacement	No	1		
4.8	Square bar rails removal and re-fixing of rails inside chute	Mtr	1		
4.9	Chute liners replacement.	Kg	7500		
4.10	Chute encasing	Kg	1500		
4.11	Fabrication and fitting of inspection door per square feet.	Sq.ft.	20		
4.12	Overhauling of Flap Gate Actuator	No.	2		
4.13	Replacement of deflector plate in chute	No.	5		

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	SECTION-V				
5	TRH SYSTEM				
5.1	Paddle feeder Arm replacement	No	0		
5.2	Paddle feeder blade liners replacement	No	10		
5.3	Paddle feeder blade arm repair	No	1		
5.4	Overhauling of PCRD/CCRD gearbox of paddle feeder.	No	2		
5.5	Overhauling of PCRD/CCRD of paddle feeder.	No	2		
5.6	Rail clamp repair/over hauling	No	1		
5.7	Rail line alignment of paddle feeder.	Joint	20		
5.8	Overhauling of servomotor.	No	1		
5.9	Cleaning of paddle feeder wheel jamming.	No	1		
5.10	Gear coupling replacement of Paddle feeders	No	2		
5.11	Propeller shaft replacement of paddle feeder	No	1		
5.12	Drive shaft replacement of Paddle feeder	No	2		
5.13	Travel wheel bearing replacement of paddle feeder	No	4		
5.14	Paddle wheel Bearing Replacement	No	4		
5.15	Overhauling of brake of travel drive of PF	No	2		
5.16	Overhauling of planetary gearbox of PF	No	2		
5.17	Adjustment/replacement of Contorq of PCRD of PF	No	1		
5.18	Overhauling/ Servicing of planetary gearbox of PF	No	1		
	SECTION-VI				
6	CRUSHING SYSTEM				
6.1	Missing hammers/one hammer replacement	No	1		
6.2	Kick-off plate replacement	No	2		
6.3	Complete hammer ring replacement, with hammer balancing	Set	6		
6.4	Screen plate replacement (upper & lower)	No	4		
6.5	Breaker plate replacement	No	6		
6.6	Crusher drive bearing replacement	No	2		
6.7	Replacement/ repair of Crusher rotor and alignment	No	1		
6.8	Grizzly feeder drive bearing/Non-drive bearing replacement	No	4		
6.9	Grizzly feeder counter weight replacement	No	1		
6.10	Grizzly feeder shaft replacement	No	1		
6.11	Plates fixing on Grizzly feeder tray	No	1		
6.12	Crusher liners replacement	No	20		
6.13	Non-drive bearing replacement of crusher	No	6		
6.14	Counter weight repair/replacement of any VF	No	1		
6.15	Oil seal replacement of any VF	No	2		
6.16	Rack & Pinion gates opening closing by chain block/Hook chuck	No	30		
6.17	Overhauling of Rack & Pinion gate	No	1		
6.18	Crusher fluid coupling replacement	No	1		
6.19	Crusher fluid coupling overhauling	No	2		
6.20	Crusher hydraulic cover opening and closing for each instance	No	19		
6.21	Oil seal replacement of fluid coupling in crusher	No	8		
6.22	Oil seal replacement of gearbox of crusher	No	5		
6.23	Replacement of cooling fan of gearbox of crusher	No	1		
6.24	Replacement of bearing of auto coal sampler crusher	No	1		
6.25	Grizzly feeder spring replacement (1 set=2 nos.)	Set	4		
6.26	Cardon shartf replacement of vibrating feeder/grizzle feeder	No	5		
6.27	Bearing housing replacement of Grizzly feeder	No	4		

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	SECTION-VII				
7	STACKER-RECLAIMER				
7.1	Seal kit replacement of hydraulic system in stacker /Reclaimer	No	1		
7.2	Stacker /Reclaimer bucket teeth replacement	No	30		
7.3	Hard facing of tips of bucket teeth	No	1		
7.4	S/R Hydraulic cylinder replacement	No	1		
7.5	S/R Hydraulic cylinder repair & re-fixing	No	1		
7.6	Overhauling of PCRD/ CCRD gearboxes of stacker /Reclaimer.	No	1		
7.7	Overhauling of PCRD/CCRD of S/R	No	1		
7.8	Rail line alignment of stacker-reclaimer.	Joint	1		
7.9	Overhauling of grease dozing system of travel/slewing drive	No	2		
7.10	Overhauling of grease pump of travel/slewing drive	No	1		
7.11	Oil leakage rectification in planetary geartrain of travel drive.	No	1		
7.12	Overhauling of Gearbox of slewing drive of S/R	No	1		
7.13	Adjustment/Replacement of Contorg of PCRD/CCRD of S/R	No	1		
7.14	Applying of cadmium compound slewing gear and pinions of S/R	No	1		
7.15	Bearing replacement of hydraulic cylinder of S/R	No	1		
	SECTION-VIII				
8	BUNKER SYSTEM				
8.1	Overhauling of PCRD/CCRD gearboxes of Traveling Tripper.	No	1		
8.2	Overhauling of PCRD/CCRD of Traveling Tripper.	No	1		
8.3	Rail line alignment of traveling tripper.	Joint	10		
8.4	Travel wheel bearing replacement of traveling tripper	No	2		
8.5	Overhauling of travel drive gearbox	No	3		
8.6	Adjustment/Replacement of contorg of PCRD of traveling tripper	No	1		
	SECTION-IX				
9	HYDRAULIC SYSTEM				
9.1	Hose pipe replacement	No	20		
9.2	Repair/replacement of Hydraulic pump.	No	6		
9.3	Repair/replacement/overhauling of Hydraulic valves.	No	5		
9.4	Oil leakage rectification in Hydraulic system	No	60		
9.5	Overhauling of hydraulic oil pumps	No	2		
9.6	Oil filter replacement	No	1		
9.7	Overhauling of servomotor	No	1		
9.8	Replacement of servo/hydraulic motor	No.	1		
	SECTION-X				
10	Dust Extraction system				
10.1	Overhauling of DE fans	No	0		
10.2	Bearing replacement of DE	No	0		
10.3	V' Belt of DE replacement	No	0		
10.4	V-grooved pulley replacement	No	0		
10.5	Bellow Replacement of DE	Mtr	0		
10.6	Air lock feeder gearbox servicing	No	0		
10.7	Sprocket replacement in air lock feeder	No	0		
10.8	Clearing of jamming of cyclone separators	No.	0		
	SECTION-XI				
11	Ventilation system				
11.1	Ventilation fans overhauling.	No	1		
11.2	Filter replacement of U.A.F/ventilation system	No.	30		
11.3	V' Belt of ventilation fan replacement	No	30		
11.4	V-grooved pulley replacement	No	1		
11.5	Bellow Replacement of Ventilations	Mtr	5		
11.6	Overhauling of ventilator.	No	1		
11.7	Cleaning of Ventilation air distribution grills	No	20		
11.8	DE/NDE bearing replacement	No	1		

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	SECTION-XII				
12	Pump system				
12.1	Flange gasket replacement.	No	50		
12.2	Valve wheel replacement.	No	5		
12.3	Replacement-repair of valves up to 100NB.	No	30		
12.4	Replacement-repair of valves above 100NB	No	5		
12.5	Alignment of pumps up to 15 Kws.	No	6		
12.6	Alignment of pumps above 15 Kws.	No	6		
12.7	Pipe line laying up to 100 NB per meter				
12.7.a	Above ground laying	Mtr	200		
12.7.b	Under ground laying	Mtr	10		
12.8	Pipe line laying above 100 NB per meter				
12.8.a	Above ground laying	Mtr	250		
12.8.b	Under ground laying	Mtr	15		
12.9	Spray nozzle replacement	No	150		
12.10	Spray nozzle cleaning(30 nos.as one unit)	Unit	80		
12.11	Sprinkler nozzle replacement at stock yard	No	4		
12.12	Pump suction strainer cleaning	No	1		
12.13	Overhauling of horizontal pumps up to 25 Kws.	No	5		
12.14	Overhauling of horizontal pumps above 25 Kws.	No	3		
12.15	Overhauling of sump pumps up to 10 KW.	No	2		
12.16	Overhauling of sump pumps/submersible pump above 10 KW.	No	4		
12.17	Servicing of lubrication system of sump pumps	No	1		
12.18	Lifting of Impeller of sump pump	No	8		
12.19	Bearing replacement of any horizontal pumps	No	5		
12.20	Repair of auto sprinklers	No	1		
12.21	Replacement of coupling rubber/love joy coupling of pump	No	5		
12.22	Gland replacement	No	30		
12.23	Leakage Rectification of water line				
12.23.a	Above ground laying	No	39		
12.23.b	Under ground laying	No	1		
12.24	Replacement of expansion below	No	2		
12.25	Replacement of back pull out assembly	No	4		
	SECTION-XIII				
13	LIFTING DEVICES SYSTEM				
13.1	Load testing of any hoist/chain pulley block up to 5Ton.	No	8		
13.2	Load testing of any hoist/chain pulley block between 5 Tons to 10 Ton	No	4		
13.3	Load testing of any hoist/chain pulley block above 10 Ton.	No	4		
13.4	Overhauling/servicing of any hoists/chain pulley block	No	13		
13.5	Pulley bearing replacement of any hoist	No	1		
13.6	Replacement of hoist ropes	No	2		
13.7	Re-winding of hoist rope	No	1		
13.8	Replacement/repair of rope guide	No	4		
13.9	Servicing of suspended magnet chain pully block	No	1		

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	SECTION-XIV				
14	MISCELLANEOUS WORKS				
14.1	Welding with spl. purpose electrode (other than 6013, 7018)	Mtr	432		
14.2	Welding with general purpose electrodes (with 6013, 7018)	Mtr	1340		
14.3	Gas cutting per meter	Mtr	1804		
14.4	Painting in two coat in sq.ft.	Sq.ft.	7003		
14.5	Bolts tightening 20 nos. as one unit	Unit	529		
14.6	Shortening/replacement of chains	No	1		
14.7	Liner replacement of thruster brake	No	1		
14.8	Brake shoe replacement of mechanical brakes	No	1		
14.9	Overhauling/replacement of gear motors	No	1		
14.10	Shifting of steel from Ware House to site or vice-versa.	No	7		
14.11	Coupling guard fixing/ removal works	No	500		
14.12	Oil replacement of gearbox/fluid couplings/oil tank (up to 30 liters as one unit)	Unit	200		
14.13	Replacement of wire rope in winch drive.	Mtr	1		
14.14	V' Belt tension adjustment	set	6		
14.15	Hand railing fitting	Mtr	114		
14.16	Labeling of equipment (upto 6" letter size)	No	2		
14.17	Labeling of equipment (above 6" letter size)	No	2		
14.18	Load cell lifting in weighbridge	No	1		
14.19	Grease renewal in any bearings of conveyor/TT/PF/crushing system	No	1800		
14.20	Grease renewal in any bearings of auxillary system	No	300		
14.21	Fabrication & erection (per MT)	MT	15		
14.22	Adjustment of thruster brakes	No	23		
14.23	Fixing of roofing/floors sheet	sq.mt	20		
14.24	Replacement of gratings	sq.mt	92		
14.25	Laying of Hume pipes including pipe cost.	RM	0		
14.26 a	Earth excavation	Cum	11		
14.26 b	Back filling of earth	Cum	11		
14.27	Erection of scaffolding	RM	150		
14.29	Making of Concrete pedestal/Floor concrete	CUM	10		
14.30	Up center rectification of any conveyor pulley	No	4		
14.31	Concrete floor cutting	Sq.mtr	4		
14.32	Belt joint inspection/conveyor	No	150		
14.33	Chute inspection	No	120		
14.34	Scrapper cleaning	No	400		
14.35	Lubricating of wire rope	Mtr	322		
14.36	Assistance in DFDS Maintenance	No	96		
14.37	Take up trolley replacement	No	1		
14.38	Grizzle feeder hollow shaft replacement	No	2		
14.39	Assistance in in Bobcat/dozer/hydra Maintenance	Days	30		
14.40	Deflector plate adjustment	No	35		
14.41	Gear box lube oil pump servicing/replacement	No	5		
14.42	Thruster brake shoe replacement	Set	2		
14.43	Take up trolley wheel replacement	No	3		
14.44	Hydraulic pump servicing of paddle feeder	No	2		
14.45	Crusher end disc replacement	No	2		
14.46	Hard facing of rotor arm and end disc	No	30		
14.47	Bucket replacement of boom	No	6		
14.48	CRD timing chain adjustment	No	4		
14.49	Chain & sprocket replacement of CRD	NO	2		
14.50	Screw take up servicing	NO	4		
	TOTAL VALUE EXCLUDING GST				

NOTE FOR BIDDERS:

Bidder shall quote only for 1st year. Annual Price escalation for 2nd year shall be 5% on 1st year price. Similarly, Annual Price escalation for 3rd year shall be 5% on 2nd year price