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SECTION - 1**CONSUMABLES AND MAINTENANCE SPARES****A. LUBRICANTS:**

Sr. No.	Type of Lubricant.	Method of Application	IOC Brand or Equivalent	Qty/Cr.	Period -icity	Annual Requirement
1.	A	By Grease Gun	Servo Gem-3	7 Kg.	Wky.	2 Barrels of
	B	By Hand				182 Kgs each
2.	E	By Hand	Servo Grease-MP	1 Kg.	Mly.	12 Kgs.
3.	D	By Hand	Servo Coat-140	1 Kg.	Wly,Mly. Qly.	12 Kgs.
4.	P	By Hand	Servo Tak-40	5 Kgs.	Mly.,Qly.	36 Kgs.
5.	C	By Oil Feeder	Servo system-46	4 Ltrs.	Wly.	210 Ltrs.
6.	F & K	By Oil Can	Servo system-100	7 Ltrs.	Wly,H-Yly	210 Ltrs.
				3 Ltrs.	Yly	
7.	M	From Bulk	Servo system-68	1300 Ltrs.	Yly	7 Barrels of 210 Ltrs
8.	G	From Bulk	Servo Premium 15W-40	45 Ltrs.	Qly	210 Ltrs.
9.	R	From Bulk	Servo Super-40	5 Ltrs.	Qly	20 Ltrs.
10.	J	From Bulk	Servo Trans-C3 SAE30	90 Ltrs.	H-Yly,Yly	210 Ltrs.
11.	L	By Hand	Moly cote -321R	1 Kg.	Mly.,Qly.	12 Kgs.
12.	N	By Hand	Molycote GN Plus Paste	1 Kg.	Wly.	52 Kgs.
13.	N	By Grease Gun	Molycote Long term Grease or Molycote-BR2 Plus	2 Kgs.	Wly.	104 Kgs.

B. FILTER ELEMENTS:

Sr. No.	Description	Make	Part No.	Qty /Cr.	Period -icity	Annual Requirement	CB Cat. Number
1.	Fuel filter Element	CIL	AR-3245217	1	Qly	4	230007
2.	Lub oil Filter Element	CIL	AR-3245215	1	Qly	4	230008
3.	Lub oil by pass Filter Element	CIL	AR-3879488	1	Qly	4	230009
4.	Corrosion Resistor Element	CIL	AR-3245214	1	Qly	4	230010
5.	Air cleaner Element (Inner)	CIL	AR-3237963	1	Yly	1	230011
6.	Air cleaner Element (Outer)	CIL	AR-3237953	1	Yly	1	230012
7.	Fuel Filter Element	Ruston & Hornsby Mico	1100240107 9451037407	1	Qly	4	240008
8.	Lub oil Filter Element	Ruston & Hornsby	3110370120	1	Qly	4	240007
9.	Fuel Filling Filter Element (F-7)	UCC (England)	EIL-1115	1	Yly	1	370010
10.	Boost Line Filter Elem. (HE-21) With Seal Kit (HF-7066)	PALL (England)	HC-9600 - FKS 44	3	-	12	260028 260029
11.	Return Line Filter Element (HE22) With Seal Kit HF-7034	PALL(England)	HC-8500 - FKS 134	1	-	3	260031 260032
12.	Hyd. oil tank breather (HE-30)	PALL (England)	HC-7500 SDT-44	1	-	1	260037
13.	Emergency Hyd. oil filter Element (HE-59) With seal kit HF 7102	PALL (England)	HC-8500 - FKS 44	1	-	1	260055 260056
14.	Air Cleaner Element	Ruston & Hornsby		1	Yly	1	240009
15.	Fuel Tank Breather (F 5)	UCC (England)	UC-AB-1163 -40	1	Yly	1	370009

SECTION -2 MAINTENANCE SPARES FOR CRANE BASE STATIONS AND MAINTENANCE DEPOT

2.1 ENGINES

Sr. Description No.	Qty /Cr	CB Ref. No.	CB Cat. No.	Qty to be Stocked
A. <u>MAIN ENGINE – CUMMINS MAKE (NT-743P)</u>				
1. Flexible Coupling Element	1	EA 45A	230005	1
2. Main Engine Throttle Cable C/W Control Unit	1	EA 14	230006	1
3. Flexible Exhaust Pipe	1	EA 17	230019	1
4. Gasket for EA 17	1	EA 20	230021	1
5. Radiator Hose - ID 1" x 751 lg.	2	EA 43	230024	2
6. Radiator Hose - ID 2 1/4" x 1 Mtr. long	4	EA 44	230025	4
7. Lub. Oil Hoses	2	-	-	2
8. Set Of Gaskets, O-Rings	1	-	230001	1
9. Rad. make up Hose	1	EA 37	230022	1
10. 10 mm Bore PVC Hose X 2.5 Mtr. long	1	-	-	1
11. Shut off Valve - 3/4" BSP - Round	1	EA 1	230018	1
12. Cogged "V" Belt, KCL 178570	1	-	230030	1
13. Cogged "V" Belt, Fenner TRK 895 or Hilton XB 895	1	-	230031	1
B. <u>AUXILIARY ENGINE - RUSTON HORNSBY MAKE (1YWA MK-V)</u>				
1. Exhaust Pipe	1	AE 4	240010	1
2. 10 mm O/D Banjo Coupling	3	51	240011	3
3. Set of Joints & Seal Kit	1	-	240001	1
4. Elements for Drive Coupling	1	AE 8A	240005	1
5. Hose Assy. HA06 A06 NU90-E706-HA06 A10 RZ90	1	AE 16	240013	1
6. Hose Assy. HA06 A06 NU90-E706-HA06 A10 RZ90	1	AE 17	240014	1
7. 5 mm Bore PVC Hose X 1000 Long	1	-	-	1
8. 5 mm Bore PVC Hose X 300 Long	1	-	-	1
9. "V" Belt A-31	1	-	240012	1
10. Silencer	1	-	-	1
C. <u>FUEL TANK</u>				
1. Braided PVC Hose, 25.4 mm Bore x 5M Long	1	F-11	520003	1
2. Fuel Tank Breather	1	F-5	370009	1
3. Fuel Tank Filter Element	1	F-7	370010	1
4. 3/4" BSP round Shut off valve	2	F-17	520005	2
5. Gasket 2mm THK. X 680 mm X 680 mm	3	-	-	3

2.2 AIR BRAKE EQUIPMENT'S REPAIR KITS AND SPARE PARTS

Sr. No.	Description	Qty /Set	WSF PART No.	CB Part No.	CB Cat. No.	Qty to be Stocked
1.	<u>DRIVER'S BRAKE VALVE TYPE SA-9 (PL No. 11360021)</u>					
1.	Repair Kit	-	-	-	-	1 Set
2.	<u>RELAY VALVE TYPE B-2 REPAIR KIT</u>		C 72663/3	CA 22		2 Set
1.	Inlet /Exhaust Valve Piston Packing	2	IA 70158/2	CA 22A	210041	
2.	Gasket Casing To Base	1	A 74957	CA 22B	210042	
3.	Inlet Valve Resilient Seat	1	A 78736/1	CA 22C	210043	
4.	Exhaust Valve Resilient Seat	1	A 78736/2	CA 22D	210044	
5.	Inlet Valve Piston	1	A 82523	CA 22E	210080	
6.	Spring	1	A 74726/2	CA 22F	210081	
7.	Exhaust Valve Piston	1	A 82524	CA 22G	-	
3.	<u>DISTRIBUTOR TYPE C3W</u>					
1.	Repair Kit	-	-	CA 1A	-	3 Set
4.	<u>UNLOADER VALVE</u>					
1.	Repair Kit	-	-	CA 11	-	1 Set
		-	-	CA 11A	210089	
5.	<u>AUTO DRAIN VALVE TYPE FA2 REPAIR KIT</u>		B 79491/1	CA 15	-	1 Set
1.	Strainer Complete	1	J 74748/1	CA 15A	210023	
2.	Dowty Bonded Seals	1	IA 70100	CA 15B	210024	
3.	Diaphragm	1	J 72314/1	CA 15C	210025	
4.	Upper Valve Seat	1	J 70003/1	CA 15D	210026	
5.	Lower Valve Seat	1	A 88519/2	CA 15E	210027	
6.	Ball Valve 1/2" Dia.	1	-	CA 15F	210082	
7.	Spring	1	IB-70079	CA 15G	210090	
8.	Spring	1	IB-70080	CA 15H	210091	
6.	<u>CENTRIFUGAL DIRT COLLECTOR REPAIR KIT</u>		18459	CA 17	-	1 Set
1.	1/2" Drain Cock Type RD (15 mm)	1	6142	CA 17A	210092	
2.	Seal Kit for Dirt Collector	1	-	CA 17B	210093	
7.	<u>1/4" SAFETY VALVE REPAIR KIT</u>		J 70929/31	CA 12	-	1 Set
1.	Valve	1	J 70919/1	CA 12A	210018	
2.	Valve Spring	1	A 87822/77	CA 12B	210094	
8.	<u>STRAINER CHECK VALVE & CHOKE UNIT REPAIR KIT</u> (TYPE D-3-8-H)		IB 70603	CA 4	-	3 Set
1.	Strainer	1	IA 70603	CA 4A	210005	
2.	Gasket	1	5583	CA 4B	210006	
3.	Gasket	1	A 70115/63	CA 4C	210007	
4.	Check Valve Complete	1	-	CA 4D	-	
5.	Check Valve Spring	1	18419	CA 4E	210076	
9.	<u>3/4' DOUBLE CHECK VALVE TYPE C-2 REPAIR KIT</u>		15917	CA 7	-	2 Set
1.	Piston Ring	1	3993	CA 7A	210011	
2.	Valve Seat Gasket	1	3994	CA 7B	210012	
10.	<u>1/4" SELF LOCKING ANGLE COCK REPAIR KIT</u>		CC 100	CA 8	-	8 Set
1.	Handle	1	CC 111	CA 8A	210100	
2.	Spring	1	CC 103	CA 8B	210101	
3.	Oil retaining bush	1	CC102 & 109	CA 8C	210102	
4.	Vent seat	1	CC 106	CA 8D	210103	
5.	Spherical valve seat	1	CC 118	CA 8E	210104	
11.	<u>BRAKE CYLINDER - 14" X 8" TYPE JP</u>		ID 70033/6	CA 23	-	4 Set
1.	Piston Packing	1	C 75070/1	CA 23A	210046	
2.	Return Spring (Rigging Release Spring)	1	591	CA 24	210047	

Sr. No.	Description	Qty /Set	WSF PART No.	CB Part No.	CB Cat. No.	Qty to be Stocked
12.	<u>BRAKE CYLINDER - 10" X 3 3/4" TYPE JSL</u>		D 74976/22	-	-	4 Set
1.	Piston Packing	1	A 89584/12	-	210106	
2.	Release spring	1	A 87903/39	-	-	
3.	Dust Excluder	1	J 72476/1	-	-	
13.	<u>BRAKE CYLINDER - 8" X 8 3/4" TYPE JSL</u>		D 74881/22	-	-	4 Set
1.	Piston Packing	1	A 89584/12	-	210108	
2.	Release spring	1	A 87903/39	-	-	
3.	Dust Excluder	1	J 72476/1	-	-	
14.	<u>FLEXIBLE HOSE CONNECTIONS</u>					
1.	Flexible Hose connection 3/4" x 2000mm (Main Comp.)	1	IB 70602	CA 34	210065	1
2.	Flexible Hose Rotary Col. 3/8" x 400mm	2	-	CA 222	210073	2
3.	Flex. Hose 1/2" x 24" (MT & BW)	4	IB 6442/1	-	-	4
15.	<u>HOSE COUPLINGS</u>					
1.	1 1/4" Hose coupling (BP)	1	IB 70320/3	CA 9	210014	1
2.	1 1/4" Hose coupling (FP)	1	IB 70521/1	CA 10	210015	1

2.3 HIGH PRESSURE HYDRAULIC HOSES

Sr. No.	Imperial Eastman Hose No.	Type	SAE Specification	Hose Bore Inch	Hose Bore MM	Hose O/D MM	Min. Bursting Pr. (Bar)	Max Working Pr. (Bar)	Min. Bend Radius (Inch)	Qty /Cr (Mtr)	CB Cat No.	Qty To be Stocked (Mtr)
1.	E 706	Single wire Braid	100 R1 AT	3/8	9.52	17.50	621	155	5.00	50	290001	25
2.	E 708	Single wire Braid	100 R1 AT	1/2	12.70	20.50	552	138	7.00	85	290002	35
3.	E 712	Single wire Braid	100 R1 AT	3/4	19.05	33.00	345	86	9.50	15	290003	10
4.	E 716	Single wire Braid	100 R1 AT	1	25.40	36.00	276	69	12.00	10	290006	5
5.	E 720	Single wire Braid	100 R1 AT	1 1/4	31.75	44.00	172	43	16.50	12	290004	10
6.	E 724	Single wire Braid	100 R1 AT	1 1/2	38.00	54.00	138	34	20.00	10	290005	10
7.	J 406	Two wire Braid	100 R2 AT	3/8	9.52	19.00	1103	276	5.00	55	290007	25
8.	J 408	Two wire Braid	100 R2 AT	1/2	12.70	22.00	966	241	7.00	130	290008	50
9.	J 412	Two wire Braid	100 R2 AT	3/4	19.05	29.00	621	155	9.50	5	290009	2
10.	J 416	Two wire Braid	100 R2 AT	1	25.40	37.00	552	138	12.00	25	290010	15
11.	G 806	Multispiral medium heavy	DIN 20023 4Sp	3/8	9.52	21.00	1700	445	5.00	10	290011	10
12.	G 808	Multispiral medium heavy	DIN 20023 4Sp	1/2	12.70	24.00	1660	415	7.00	3	290012	3
13.	G 812	Multispiral medium heavy	DIN 20023 4Sp	3/4	19.05	31.50	1400	350	11.00	20	290013	10
14.	G 816	Multispiral medium heavy	DIN 20023 4Sp	1	25.40	40.00	1120	280	14.00	50	290014	25

2.4 HIGH PRESSURE HYDRAULIC HOSE COUPLINGS (FITTINGS)

Sr. No.	Hose Fitting No. of Imperial Eastman	Description	Hose Bore (Inches)	Thread Size (Inches)	"A" In Inches	Qty /Cr.	CB Cat No.	Qty to be Stocked
1.	HA06 A06 MU	MU-Male parallel	3/8	3/8	-	3	280002	3
2.	HA06 A06 NU	NU-Female parallel	3/8	3/8	-	60	280001	10
3.	HA06 A06 NU45	NU45-Parallel swept 45deg elbow	3/8	3/8	0.766	4	280003	4
4.	HA06 A06 NU90	NU90-Parallel swept 90deg elbow	3/8	3/8	1.412	39	280004	10
5.	HA06 A06 NU90S	NU90S-Parallel swept 90deg elbow	3/8	3/8	0.813	8	280005	8
6.	HA06 A12 RZ	Rz metric O.D. Stand pipe	3/8	LS-12	-	3	280007	3
7.	HA06 A12 RZ90	RZ-swept 90deg O.D. Stand pipe	3/8	LS-12	1.535	1	280006	1
8.	HA08 A08 MU	MU-Male parallel	1/2	1/2	-	18	280008	10
9.	HA08 A08 NU	NU-Female parallel	1/2	1/2	-	38	280010	10
10.	HA08 A08 NU45	NU45-Parallel swept 45deg elbow	1/2	1/2	0.884	22	280011	10
11.	HA08 A08 NU90	NU90-Parallel swept 90deg elbow	1/2	1/2	1.689	59	280012	10
12.	HA08 A08 NU90S	NU90S-Parallel swept 90deg elbow	1/2	1/2	0.9	3	280013	3
13.	HA08 A16 RZ90	RZ Swept 90deg O.D. Stand pipe	1/2	LS-16	1.85	12	280009	10
14.	HA12 A12 MU	MU-Male parallel	3/4	3/4	-	2	280038	2
15.	HA12 A12 NU	NU-Female parallel	3/4	3/4	-	5	280014	5
16.	HA12 A12 NU45	NU45-Parallel swept 45deg elbow	3/4	3/4	1.03	2	280015	2
17.	HA12 A12 NU90	NU90-Parallel swept 90deg elbow	3/4	3/4	2.168	5	280016	5
18.	HA12 A12 PH90	PH90 Flange 90deg Elbow	3/4	3/4	2.168	2	280039	2
19.	HA16 A16 NU	NU-Female parallel	1	1	-	18	280017	10
20.	HA16 A16 NU45	NU45-Parallel swept 45deg elbow	1	1	1.23	5	280018	5
21.	HA16 A16 NU90	NU90-Parallel swept 90deg elbow	1	1	2.622	13	280019	10
22.	HA16 A16 NU90S	NU90S-Parallel swept 90deg elbow	1	1	1.3 2	2	280020	2
23.	HA20 A20 NU	NU-Female parallel	1 1/4	1 1/4	- 2	2	280021	2
24.	HA20 A20 NU90	NU90-Parallel swept 90deg elbow	1 1/4	1 1/4	2.98 6	6	280022	6
25.	HA24 A24 NU	NU-Female parallel	1 1/2	1 1/2	- 4	4	280023	4
26.	HA24 A24 NU45	NU45-Parallel swept 45deg elbow	1 1/2	1 1/2	- 2	2	280024	2
27.	HA24 A24 NU90	NU90-Parallel swept 90deg elbow	1 1/2	1 1/2	3.387	2	280025	2
28.	ES06 A06 NU90	NU90-Parallel swept 90deg elbow	3/8	3/8	1.412	8	280027	8
29.	ES08 A08 NU45	NU45-Parallel swept 45deg elbow	1/2	1/2	0.884	4	280026	4
30.	ES12 A12 NU	NU-Female parallel	3/4	3/4	-	2	280042	2
31.	ES12 A12 NU45	NU45-Parallel swept 45deg elbow	3/4	3/4	1.03	1	280040	1
32.	ES12 A12 NU90	NU90-Parallel swept 90deg elbow	3/4	3/4	2.168	7	280029	7
33.	ES12 A12 NU90S	NU90S-Parallel swept 90deg elbow	3/4	3/4	1.1	2	280028	2
34.	ES12 A12 PH90	PH6000 PSI Flange swept 90deg Elbow	3/4	3/4	2.25	2	280030	2

Sr. No.	Hose Fitting No. of Imperial Eastman	Description	Hose Bore (Inches)	Thread Size (Inches)	"A" In Inches	Qty /Cr.	CB Cat No.	Qty to be Stocked
35.	ES12 A25 RO36 B45	RO45 Female 24deg Cone with 'O' ring for DIN 2353 L&S fitting S-25	3/4	Taper end Size 36x2mm	1.347	2	280031	2
36.	ES16 A16 NU	NU-Female parallel	1	1	-	10	280034	10
37.	ES16 A16 NU45	NU45-Parallel swept 45deg elbow	1	1	1-23	7	280035	7
38.	ES16 A16 NU90	NU90-Parallel swept 90deg elbow	1	1	2.622	9	280036	9
39.	ES16 A16 NU90S	NU90S-Parallel swept 90deg elbow	1	1	1.3	8	280037	8
40.	ES16 A20 PH90	PH6000 PSI Flange swept 90deg Elbow	1	1 1/4	2.63	4	280032	4
41.	ES16 A30 RO42B	RO45 Female 24deg Cone with 'O' ring for DIN 2353 L&S fitting S-30	1	Taper end Size 42x2mm	1.347	4	280041	4
42.	ES16 A30 RO42 B90	RO90 Female 24deg Cone with 'O' ring for DIN 2353 L&S fitting S-30	1	Taper end Size 42x2mm	2.783	2	280033	2

NOTE: 1. Female 24 Deg. cone with `O' rings for Sr. Nos. 34(2 Nos.), 41(4 Nos.) & 42(2 Nos.)
2. Flange kits for 12 PH (4 Nos.) & 20 PH (4 Nos.).
3. Cones with nuts for 12 RZ (3 Nos.), 12 RZ90 (1 No.) & 16 RZ90 (12 Nos.)

2.5 HYDRAULIC SEAL KITS

Sr. No.	Description	Qty/ Cr.	CB Ref. No.	CB Cat. No.	Qty to be Stocked
1.	Pump Drive Gear Box Repaire Kit	1	HE-1	260001	1
2.	Main & Aux.Hoist/Derrick& Travel Pump Kit	2	HE-2B	260002	1
3.	Derrick Tie Cylinder Pump Seal Kit	2	HE-2C	260003	1
4.	HP Relief Valve	4	HE-2D	260005	2
5.	Boost Relief Valve	2	HE-2E	260006	1
6.	Proportional Solenoid Assembly	4	HE-2F	260007	2
7.	Pressure Cut Off Valve Assembly	2	HE-2G	260008	1
8.	Slewhaul Pump Repair Kit	1	HE-3B	260009	1
9.	Outrigger Pump Seal Kit	1	HE-3C	260010	1
10.	HP Relief Valve	2	HE-3D	260011	1
11.	Boost Relief Valve	1	HE-3E	260012	1
12.	Proportional Soleniod Assembly	2	HR-3F	260013	1
13.	Pressure Cut Off Valve Assembly	1	HE-3G	260014	1
14.	Flushing Valve Repair Seal Kit	2	HE-4	260015	1
15.	Solenoid Optr. Direction Ctrl. Valve Seal Kit	7	HE-5	260016	3
16.	Crossline Relief Valve Seal Kit	6	HE-6	260017	3
17.	Direction Ctrl. Valve Seal Kit Solenoid Optr.	6	HE-10	260021	3
18.	Solenoid Optr.Direction Ctrl.Valve Seal Kit	1	HE-11	260022	1
19.	Pilot Optr.Direction Control Valve Seal Kit	1	HE-12	260023	1
20.	Solenoid Optr.Direction Ctrl.Valve Seal Kit	1	HE-13	260024	1
21.	Pressure Relief Valve Seal Kit	2	HE-14C	260025	2
22.	Solenoid Operated Lock Valve Seal Kit	2	HE-19	260026	2
23.	Flow Control Valve Seal Kit	1	HE-20	260027	1
24.	Flow Control Seal Kit	1	HE-23	260034	1
25.	Seal Kit For Rotary Column	1	HE-26	260035	1
26.	Relief Valve Seal Kit	1	HE-29	260036	1
27.	Low Boost Pressure Switch Seal Kit	3	HE-31	260038	1
28.	Seal Kit For Cross Line Relief Valve	3	HE-36	260039	1
29.	Seal Kit for Pressure Reducer	1	HE-37	260040	1
30.	Repaire Kit for Emmergency Stowage Pump	1	HE-38	260041	1
31.	Mannually Op.Directionl Ctrl.Valve Seal Kit	1	HE-39	260042	1
32.	Seal Kit for Differential valve	1	HE-40	260043	1
33.	Seal Kit for free Wheel Valve	1	HE-41	260044	1
34.	Seal Kit for Direction Control Valve	1	HE-43	260045	1
35.	Seal Kit for 2 Spool Control Valve	5	HE-44	260046	2
36.	Seal Kit for 2 Spool Control Valve	1	HE-45	260047	1
37.	Seal Kit for Pilot Operated Double Lock Valve	2	HE-46	260048	1
38.	Seal Kit for Pilot operated Lock Valve	2	HE-47	260049	1
39.	Pilot Operated Lock Valve Seal Kit	2	HE-52	260050	1
40.	Flow Divider Seal Kit	2	HE-54	260051	1
41.	Flow Divider Seal Kit	2	HE-55	260052	1
42.	Seal Kit for Ballast Control Valve	1	HE-57	260053	1
43.	Seal Klt for Motion Control Valve	1	HE-58	260054	1
44.	Seal Kit For R/Bogie Coupling Pin	4	HC-1A	260058	4
45.	Seal Kit For DrawBeam Jack	6	HC-2A	260059	3
46.	Lock Valve For Draw Beam Jack Cylinder	6	HC-2B	260060	3
47.	Seal Kit For Extensions Cylinder	6	HC-3A	260061	3
48.	Seal Kit For Clutch Cylinder	2	HC-4A	260062	1
49.	Seal Kit For Ballast Beam Cylinder	2	HC-5A	260063	1
50.	Seal Kit For Counter Wieght Jack Cylinder	2	HC-6A	260064	2
51.	Seal Kit For Ballast Wieght Jack Cylinder	4	HC-7A	260065	4
52.	Seal Kit For Derrick Tie Cylinder	2	HC-8A	260066	2
53.	Seal Kit For R/Bogie Main Jack Cylinder	2	HC-9A	260067	2
54.	Seal Kit For R/Bogie hand pump -P464A	2	HC-10A	260068	2

2.6 HYDRAULIC FITTINGS

Sr. No	Description	Qty/ Cr	CB Ref No.	CB Cat. No.	Qty to be Stocked
1.	BSP BONDED RUBBER SEALS				
1.	1/4" BSP Bonded Rubber Seal	52	HF42	300024	13
2.	3/8" BSP Bonded Rubber Seal	89	HF45	300025	23
3.	1/2" BSP Bonded Rubber Seal	116	HF47	300027	29
4.	3/4" BSP Bonded Rubber Seal	50	HF50	300029	13
5.	1" BSP Bonded Rubber Seal	87	HF51	300030	22
6.	1.1/4" BSP Bonded Rubber Seal	33	HF52	300031	9
7.	1.1/2" BSP Bonded Rubber Seal	27	HF53	300032	7
2.	COPPER WASHERS				
1.	M12 Copper Washer	6	HF41	300023	6
2.	M18 Copper Washer	18	HF46	300026	18
3.	M22 Copper Washer	20	HF48	300028	20
3.	DUST CAPS				
1.	Dust Cap	12	QRC5	300127	12
2.	Dust Cap	2	QRC6	300128	2
3.	Dust Cap	2	QRC7	300129	2
4.	Dust Cap	4	QRC8	300130	4
4.	PIPE CLAMPS				
1.	Pipe Clamp 20 O/D Pipe	15	A	300131	4
2.	Pipe Clamp 20 O/D Pipe Build Up Type	10	B	300132	3
3.	Pipe Clamp 12 O/D Pipe	12	C	300133	3
4.	Pipe Clamp 20 O/D Pipe Twin	4	D	300134	1
5.	HOSE CLAMPS				
1.	Hose Clamp 40 O/D Double	3	E	300135	1
2.	Hose Clamp 40 O/D Single	3	F	300136	1
3.	Hose Clamp 21 O/D Single	18	G	300137	5
4.	Hose Clamp 18 O/D Double	4	H	300138	1
5.	Hose Clamp 32 O/D	2	J	300139	1
6.	Hose Clamp c/w Bayonet Nut (M8)	2	K	300140	1
7.	Hose Clamp (Build Up)	2	L	300141	1
8.	Hose Clamp 18 O/D Single	12	M	300142	3
9.	Hose Clamp	2	N	300143	1
10.	Hose Clamp	5	P	300144	2
6.	SET OF GASKETS				
	2mm Thk X 480 X 480 for Hyd. tank	6			6
7.	"O" RINGS				
1.	GACO 'O' Ring RM 0345-30	20	HS3	300145	10
2.	O Ring	20	HS104	300146	10
3.	O Ring	20	HS107	300147	10
4.	O Ring	20	HS110	300148	10
5.	O Ring	20	HS111	300149	10
6.	O Ring	20	HS112	300150	10
7.	O Ring	20	HS118	300151	10
8.	O Ring	20	HS120	300152	10
9.	O Ring	20	HS121	300153	10
10.	O Ring	20	HD1-HD42	300154	10
11.	'O' Ring (Pall) - OAG 1218PB00	1	HS-50		1

2.7 GEAR BOX REPAIR KITS

Sr. No.	Description	Make & Specification	Qty/ Cr.	CB Ref. No..	CB Cat. No.	Qty to be Stocked
1.	Main Hoist Gearbox repair Kit	Hamworthy W1450 Ratio 104/1	1	MH-10A	270002	1
2.	Main Hoist Brake Plate Kit		1	MH-10B	270003	1
3.	D/hoist Gearbox Repair Kit	Hamworthy W1450 Ratio 208/1	1	D-6A	270005	1
4.	D/hoist brake plate Kit		1	D-6B	270006	1
5.	Slew Gear Box Repair Kit	Hamworthy S1300 Ratio 148/1	1	R-3A	270008	1
6.	Slew gearbox Brakeplate Kit		1	R-3B	270009	1
7.	A/hoist Gear Box Repair Kit	Hamworthy W440 Ratio 44.6/1	1	AH-4A	270011	1
8.	A/hoist Brake Plate Kit		1	AH-4B	270012	1
9.	Hauling Winch Gearbox Repair Kit	Hamworthy HTLT 123, Ratio 69/1	1	HW-6A	270014	1
10.	Hauling Winch Brake Plane Kit		1	HW-6B	270015	1
11.	Travel Gearbox Repair Kit	Hamworthy S380 Ratio 17.3/1	2	T-11A	270017	2

2.8 UNDER CARRIAGE AND BOGIE ITEMS

Sr. No	DESCRIPTION	Qty / Cr	CB Ref. No.	CB Cat. No.	Specn.	Qty to be Stocked
1.	Laminated Springs	20	LS1	360001	IS 3885 Gr4	4
2.	Spring Link Bolts (435 mm Long)	24	C4	360002	BS 970-605 M36R or Gr. 35Mn2Mo8 of IS 1570/61	6
3.	Spring Link Bolts (518 mm Long)	16	RB7	360003		4
4.	Spring Link Bolts Brackets	24	C2	360004	CI-BS 3100 AS	6
5.	Spring Link Bolts Brackets	12	RB1	360005	CI-BS 3100 AS	4
6.	Spring Link Bolts Guide Brackets	32	C22/RB2	360006	CI-BS 3100 AS	16
7.	Spring Link Pins	40	C28/RB4	360007	BS-970-870 M20 or IS 1875 CI-IV	16
8.	Spring Link Pins	40	C27/RB3	360008		20
9.	Equaliser Beam	8	C18	360009	BS-3100 A3 Cast Steel or IS 1875 CI-IV	2
10.	Spring Link Bolt Rocker Washer	20	C5/RB5	360010	Cast Steel	10
11.	Spring Link Bolt Rocker Washer	20	C23/RB47	360011	Cast Steel	10
12.	Disc Spring 125 x 64 x 5 mm	128	-	360012		32
13.	Brake Blocks Carriage - LH	14	CB73	360013	CI-BS-1452 Gr 260 Hardness 180-220 BHN	7
14.	Brake Blocks Carriage - RH	14	CB74	360013		7
15.	Brake Blocks Match Truck and Ballast Wagon	32	-	360014	CI IS-210 Gr 40	16
16.	Manganese Liners For Axle boxes	32	-	-	11 to 14 % Mn Steel IRS R-65 1978 or Latest	8
i)	Manganese Steel Liners 266 x 130 x 5 mm	24	-	-		6
ii)	Manganese Steel Liners 152 x 32 x 5 mm	16	-	-		4
iii)	Manganese Steel Liners 220 x 130 x 5 mm	60	-	-		15
17.	Fan Adapter	1	AE32	-	Steel Gr. C6 of IS 1570/61 normalised condition	1

2.9 ELECTRICAL ITEMS

Sr. No.	DESCRIPTION	SPECIFICATION	Qty /Cr	CB Cat. No.	Qty to be Stocked
A. CARBON BRUSHES					
1.	C/Brush for 24V Self starter (Main Engine)	Suitable to available Starter	4	-	4
2.	C/Brush for 12V Self starter (Aux. Engine)	Suitable to available Starter	4	-	4
3.	C/Brush for 24V Alternator (Main Engine)	Suitable to available Alternator	2	-	4
4.	C/Brush for 12V Dynamo/Alternator (Aux. Engine)	Suitable to available Alternator / Dynamo	2	-	2
5.	C/Brush for Slip ring (Rotary coloumns)		8	380005	8
B. BULBS & LAMPS					
1.	Jib Flood light	Type-Halogen 24V 150W 17/3	1	400001	1
2.	Front Flood light	Type-Halogen 24V 150W 17/3	2	400002	1
3.	Rear Flood light	Type-Halogen 24V 70W	1	400003	1
4.	Gauge Illumination Lamp	Miniature Type Pin 24V 125MA 3W	8	400007	4
5.	Indicator lamp	Type T55 24V 50 MA 12W	7	400008	7
6.	Cap, Fault Indication Lamp Red		7	400012	7
C. RELAYS					
1.	General Relay Type ETH	-	18	410001	6
2.	General Relay Type DTH	-	5	410002	2
3.	Timer Relay	-	5	410003	2
4.	2 K Contactor	-	1	410004	2
D. SWITCHES					
1.	Eng. Key Switch (ES-1)	-	1	420001	1
2.	Battery Isolator	-	1	420002	1
3.	2 - Way Selection Switch	-	2	420005	4
4.	3 - Way Selection Switch	-	5	420006	5
5.	Push Button	-	5	420007	5
6.	Control Switch (Push Button Type)	-	10	420008	5
7.	Engine Overspeed Latches (ES 9)	-	1	420011	1
8.	Hyd. Oil Temperature Switch	-	1	420012	1
9.	Low Booster Pressure Switch	-	3	420013	1
10.	Eng. Water Temperature Detector (ES-7)	-	1	420014	1
E. CIRCUIT BREAKERS					
1.	Circuit Breaker 20 AMPS.	-	3	440001	3
2.	Circuit Breaker 15 AMPS.	-	3	440002	3
3.	Circuit Breaker 10 AMPS.	-	3	440003	3
4.	Circuit Breaker 5 AMPS.	-	3	440004	3
F. SENSORS					
1.	Water Level Sensor (Probe)	-	1	450001	1
2.	Fuel Oil Level Sensor	-	1	450002	1
3.	Water Temp. Sensor	-	1	450003	1
4.	Engine oil Pressure sensor	-	1	450004	1
5.	Engine oil Temp. sensor	-	1	450005	1
6.	Hydraulic Oil Temp. sensor	-	1	450006	1
7.	Hydraulic Filter block sensor	-	4	450007	4
8.	Tachometer Sensor	-	1	450008	1
G. GENERAL					
1.	Fuse Link 4 Amp	Part No. 2061639, List No. NITA	6	480006	3
2.	Terminals	KLIPPON Type - SAR 2.5 Terminals Mounted On Rails For All Ckts.	20	480012	20
3.	Fuse 1 Amp (Glass)	-	10	490028	5
4.	General Solenoid	GU 35-4-A4455 24V DC, 26W	20	-	5

2.8 MISC ITEMS

Sr. No.	Description	Qty/ Cr	CB Ref. No.	CB Cat. No.	Qty to be Stocked
1.	UNION CHAINS FOR LIMIT SWITCHES				
1.	Union chain No. 741 x 68 Pitches	1	LS 9	530001	1
2.	Union chain No. 741 x 46 Pitches	1	LS 10	530002	1
3.	Union chain No. 741 x 62 Pitches	1	LS 11	530003	1
2.	PINIONS FOR LIMIT SWITCHES				
1.	12 Teeth 1/2" Pitch Pinion	1	LS 6	530004	1
2.	16 Teeth 1/2" Pitch Pinion	1	LS 7	530005	1
3.	18 Teeth 1/2" Pitch Pinion	1	LS 8	530006	1
3.	GREASE NIPPLES				
1.	M10 X 1 Pitch TAT Grease Nipple	167			20
2.	1/8" BSP TEC Lub Nipple	2			2
3.	1/8" BSP HEX Nipple	4			4
4.	1/8" BSP Lub Nipple	2			2
5.	1/8" BSP TAT Grease Nipple	2			2
6.	1/4" BSP TAT Grease Nipple	8			4
7.	1/4" BSP HEX Nipple	12			4
8.	1 1/4" BSP Barrel Nipple	2			2

SECTION - 3 UNIT EXCHANGE SPARES FOR CRANE BASE STATION

3.1 ENGINES

Sr. No.	Description	Qty /Cr	CB Ref. No.	CB Cat. No.	Qty to be Stocked
A. MAIN ENGINE – CUMMINS MAKE (NT-743P)					
1.	Main engine overhauling kit	1 Set	-	230002	1 Set
2.	Main Engine Repair kit	1 Set	-	230003	1 Set
3.	Main Compressor Repair kit	1 Set	-	230017	1 Set
B. AUXILIARY ENGINE - RUSTON HORNSBY MAKE (1YWA MK-V)					
1.	Aux. Engine overhauling kit	1 Set	-	240003	1 Set
2.	Aux. Engine Repair kit	1 Set	-	240002	1 Set

3.2 AIR BRAKE SYSTEM

Sr. No.	Description	WSF /FILTON PART No.	Qty /Cr	CB Ref No.	CB Cat No.	Qty to be Stocked
1.	Drivers Brake Valve Type SA-9	-	1	-	-	1
2.	Relay Valve Type B-2	C 72663/3	2	CA 22	210040	2
3.	Unloader Valve	C 76813	1	CA 11	210016	1
4.	1 1/4" Safety Valve	J 70929/31	1	CA 12	210017	1
5.	Auto Drain Valve Type PA2	B 79491/1	1	CA 15	210022	1
6.	Strainer Check Valve & Choke Unit	IB 70603	2	CA 4	210004	2
7.	3/4" Double Check Valve Type C-2	15197	1	CA 7	210010	2
8.	1" Tubular Check Valve	94	1	CA 13	210019	1
9.	Centrifugal Dirt Collector	18459	1	CA 17	210029	1
10.	1" Isolating Cock	26695	3	CA 3	210003	2
11.	1/2" Drain Cock (15mm) Type RD	6142	4	CA 6	210009	2
FILTON ROTARY COUPLING PARTS						
1.	Filton Rotary Union Type RE-RS complete With elbow 1 1/4" x 1/2" BSP Taper	1666-3 & 5379-6	1	CA220	210071	1

3.3 HYDRAULIC EQUIPMENTS

Sr. No.	Description	Make	Qty / Cr	Ref No.	CB Cat No.	Qty to be Stocked
1.	Directional Control Valve	Rexroth	2	HE 5	310008	1
2.	Crossline Relief Valve	Rexroth	6	HE-6	310009	1
3.	Directional Control Valve	Rexroth	2	HE 10	310013	2
4.	Directional Control Valve	Rexroth	1	HE 13	310016	1
5.	Solenoid Operated Lock Valve	Rexroth	1	HE 19	310022	1
6.	Multipressure Gauge	Oil Control	1	HE 24	310027	1
7.	Low boost Pressure Switch	Rexroth	3	HE 31	310034	2
8.	Oil level Gauge	Hamworthy	1	HE 34	310037	1
9.	Emergency Stowage Pump	Rexroth	1	HE-38	310041	1
10.	R/B Coupling Pin Control Valve	Hamworthy	1	HE 43	310045	1
11.	Drawbeam Control Valve	Parker	1	HE 44	310046	1
12.	Gauge Adopters	HSP	2	HE 61	310060	2
13.	Relieving Bogie Hand Pump	Ennerpack	2	P-464	310074	1

3.4 WIRE ROPES SLINGS AND CHAIN SLINGS

Sr. No.	DESCRIPTION	SPECIFICATION	Qty /Cr	CB Cat. No.	Qty to be Stocked
A. WIRE ROPE SLINGS					
1.	Two Legged 30 Tonne, 5 M Long	Ref. Drg. No. 22131/133/1	1	320003	1
2.	Two Legged 30 Tonne, 7 M Long	Ref. Drg. No. 22131/133/1	1	320004	1
3.	Two Legged 50 Tonne, 7 M Long	RDSO Spec. No. MP.CR.LT-1/90	1	320010	1
B. CHAIN SLINGS					
1.	Two Legged , 25 Tonne	Ref. Drg. No. 22131 - 133 / 2	2	340001	1
2.	Two Legged , 5 Tonne	Ref. Drg. No. 22131 - 133 / 2	2	340002	1

3.5 ELECTRICAL

Sr. No.	Description	Specification	Qty /Cr	CB Cat. No.	Qty to be Stocked
1.	Self Starter, 24 Volts for Main Engine		1	-	1
2.	Alternator, 24 Volts for Main Engine		1	-	1
3.	Self Starter, 12 Volts for Aux. Engine		1	-	1
4.	Dynamo /Alternator, 12 Volts for Aux. Engine		1	-	1
5.	Engine Overspeed Latched/Safety (ES9) Cummins make		1	-	1
6.	Engine Lub. Oil Pressure Gauge		1	470003	1
7.	Temperature Gauge	24 Volts, Range 0-12 deg. C	3	470005	1
8.	Tachometer with Lead	-	1	470007	1
9.	Amplifier	-	3	480013	1
10.	Joystick	-	3	480014	1
11.	Contact Block N/O	-	5	460001	10
12.	Contact Block N/C	-	5	460002	10
13.	Pump Solenoid	Rexroth supply	6	-	2
14.	General Solenoid	Rexroth supply	28	-	3
15.	Differential Pressure Switch	Pall Pt. No.: RC861 CZ 090 HVM	4	-	2
16.	Main Engine Battery, 12 V	Heavy Duty maintenance free Lead Acid Battery 12V, 200 AH	2	-	**
16.	Auxiliary Engine Battery, 12 V	Heavy Duty maintenance free Lead Acid Battery 12 V, 88 AH	1	-	**

*** Batteries are changed during POH / MLR. Afterwards to be procured by depots as & when required.

SECTION - 4 UNIT EXCHANGE & EMERGENCY SPARES FOR POH WORKSHOP

4.1 ENGINES & ACCESSORIES

Sr. No.	Description	Qty /Cr	CB Ref. No.	CB Cat. No.	Qty to be Stocked
A. <u>MAIN ENGINE – CUMMINS MAKE (NT-743P)</u>					
	Diesel Engine - Cummins India Ltd. Make, Model No. NT-743P with Radiator, Self Starter , Alternator and all standard accessories including Flexible Exhaust Pipe & Silencer Exhaust Pipe	1	-	-	1 Unit
	Main Engine Flexible Coupling	1	EA 45	230004	1
	Radiator Overflow Pipe 10mm O/D 2.5 mtr Long	1	EA 40	230023	1
	Radiator Makeup Hose - ID 2-2/4" x 1 Mtr Long	1	-	-	1
	Radiator Makeup Hose - ID 1" x 1' Long	1	-	-	1
	Air Cleaner Hose Hump	2	-	-	2
B. <u>AUXILIARY ENGINE - RUSTON HORNSBY MAKE (1YWA MK-V)</u>					
	Diesel Engine – Ruston Hornsby Make, Model No. 1YWA MK-V with Self Starter, Dynamo and all standard accessories including:	1	-	-	1 Unit
	1. Flexible Exhaust Pipe	1	AE 4	240010	1
	2. Flexible Coupling	1	AE 8	240004	1
	3. Hose Assy. HA06 A06 NU90-E706-HA06 A10 RZ90	1	AE 16	240013	1
	4. Hose Assy. HA06 A06 NU90-E706-HA06 A10 RZ90	1	AE 17	240014	1
	5. 5 mm Bore PVC Hose X 1000 Long	1	-	-	1
	6. 5 mm Bore PVC Hose X 300 Long	1	-	-	1

4.2 AIR BRAKE SYSTEM

A. AIR BRAKE EQUIPMENTS

Sr. No.	Description	Qty /Cr	WSF PART No.	CB Ref No.	CB Cat No.	Qty to be Stocked
1.	DRIVERS BRAKE VALVE TYPE SA-9	1	ID 70034/3	CA 19	210031	2
2.	RELAY VALVE TYPE B-2	2	C 72663/3	CA 22	210040	4
3.	DISTRIBUTOR TYPE C3W	3	D 75609	CA 1	210001	3
4.	UNLOADER VALVE	1	C 76813	CA 11	210016	1
5.	1 1/4" SAFETY VALVE	1	J 70929/31	CA 12	210017	2
6.	AUTO DRAIN VALVE TYPE PA2	1	B 79491/1	CA 15	210022	2
7.	STRAINER CHECK VALVE & CHOKE UNIT	2	IB 70603	CA 4	210004	5
8.	3/4" DOUBLE CHECK VALVE TYPE C-2	1	15197	CA 7	210010	2
9.	1" TUBULAR CHECK VALVE	1	94	CA 13	210019	2
10.	1/2" SOFT SEALED CHECK VALVE	1	JA 8064/1	CA 36	210067	2
11.	CENTRIFUGAL DIRT COLLECTOR	1	18459	CA 17	210029	2
12.	1" ISOLATING COCK	3	26695	CA 3	210003	6
13.	1/2" DRAIN COCK (15mm) TYPE RD	5	6142	CA 6	210009	10
14.	AIR BRAKE CYLINDER - 14" X 8" TYPE JP	4	ID 70033/5	CA 23	210045	2
15.	AIR BRAKE CYLINDER - 10" X 3 3/4" TYPE JSL	4	D 74976/22	-	-	4
16.	AIR BRAKE CYLINDER - 8" X 8 3/4" TYPE JSL	4	D 74881/21	-	-	4
17.	1" ISOLATING COCK	9	541	CA 16	210028	9
18.	4" DUPLEX PRESSURE GAUGE MR-BC	1	IB 70605/	CA 18	210030	3
19.	FILTON ROTARY COUPLING ROTARY UNION TYPE RE-RS	1	-	CA220	210071	2
20.	ROTARY COLOUMN AIR BRAKE TEE PIECE	1		RC 2	360028	2

B. COMPRESSION TYPE FITTINGS FOR AIR PIPES

Sr. No.	Description	Qty /Cr.	CB Ref No.	CB Cat No.	Qty to be Stocked
1	Straight Coupling 1 1/4" NB	13	CA50	220001	13
2	Straight Coupling 1/2" NB	5	CA52	220002	5
3	Equal Tee 1 1/4" NB	5	CA53	220003	5
4	Equal Tee 1"	1	CA54	220004	1
5	Equal Tee 3/4" NB	7	CA55	220005	7
6	Equal Tee 1/2" NB	4	CA56	220006	4
7	Unequal Branch Tee 1/2"NBx1/2"NBx1/4"NB	1	CA57	220007	1
8	Equal Elbow 1 1/4" NB	3	CA58	220008	3
9	Equal Elbow 1" NB	2	CA59	220009	2
10	Equal Elbow 3/4" NB	4	CA60	220010	4
11	Equal Elbow 1/2" NB	31	CA61	220011	31
12	Banjo Coupling 1 1/2" BSP - 1/2" NB	1	CA62	220012	1
13	Parallel Male Stud Coupling 1 1/2"BSP-1 1/4"NB	1	CA63	220013	1
14	Parallel Male Stud Coupling 1 1/4"BSP-1 1/4"NB	10	CA64	220014	10
15	Parallel Male Stud Coupling 1" BSP - 1" NB	7	CA65	220015	7
16	Parallel Male Stud Coupling 1" BSP- 3/4"NB	4	CA66	220016	4
17	Parallel Male Stud Coupling 1" BSP- 1/2"NB	6	CA67	220017	6
18	Parallel Male Stud Coupling 3/4"BSP-1/2"NB	4	CA68	220018	4
19	Parallel Male Stud coupling 3/4"BSP-1/2"NB	6	CA69	220019	6
20	Parallel Male Stud Coupling 1/2"BSP-1/2"NB	16	CA70	220020	16
21	Parallel Male Stud Coupling 3/8"BSP-1/2"NB	1	CA71	220021	1
22	Parallel Male Stud Elbow 1"BSP-1"NB	1	CA72	220022	1
23	Parallel Female Stud Coupling 3/8"BSP-1/4"NB	3	CA73	220023	3
24	Sand pipe Adopter 1/2" NB-1 1/4"NB	5	CA74	220024	5
25	Stand Pipe Adopter 1/2"NB-3/4"NB Standpipe	7	CA75	220025	7
26	Standpipe Adopter1/4"NB-1/2"NB Standpipe	2	CA76	220026	2
27	Stud Standpipe Adopter 1" BSP-1"NB	1	CA77	220027	1
28	Stud Standpipe Adopter 1"BSP-3/4"NB	1	CA78	220028	1
29	Stud Standpipe Adopter 1/2"BSP-1/2"NB	8	CA80	220029	8

Sr. No.	Description	Qty /Cr.	CB Ref No.	CB Cat No.	Qty to be Stocked
30	Reducing Standpipe 1 1/4"NB-3/4"NB	1	CA81	220030	1
31	Reducing Standpipe 1"NB-1/2"NB	2	CA82	220031	2
32	Parallel Female Stud Cplg 1 1/4"BSP-1 1/4"NB	4	CA83	220032	4
33	Reducing Coupling 1"NB-3/4"NB	1	CA84	220033	1
34	Taper Male Stud Coupling 1/2"BSP-3/4"NB	1	CA85	220034	1
35	Equal Cross 1/2"NB	2	CA86	220035	2
36	Parallel Female Stud Coupling 1/2"BSP-1/2"NB	2	CA87	220036	2
37	Male Copper Washer 1/2"BSP	1	CA88	220037	1
38	Bonded Rubber Seal 1 1/2" BSP	10	CA89	220038	10
39	Bonded Rubber Seal 1 1/4"BSP	25	CA90	220039	25
40	Bonded Rubber Seal 1"BSP	14	CA91	220040	14
41	Bonded Rubber Seal 3/4"BSP	30	CA92	220041	30
42	Bonded Rubber Seal 1/2"BSP	1	CA93	220042	1
43	Bonded Rubber Seal 3/8"BSP	1	CA94	220043	1
44	Parallel Male/Male Adopter 1/2"BSP-3/4"BSP	1	CA95	220044	1
45	Steel Plug 1 1/2"BSP Taper Th'd	2	CA96	220045	2
46	Steel Plug 1" BSP Taper Th'd	1	CA97	220046	1
47	Parallel Male/Male Adopter 3/4"BSP-3/4"NPTF	1	CA98	220047	1
48	Parallel Male Stud Coupling 3/4"BSP - 1" NB	12	CA99	220048	12
49	Parallel Female Stud Coupling 1" BSP - 1" NB	6	CA100	220049	6
50	Equal Elbow 2" BSP	3	CA105	220050	3
51	Equal Socket 2" BSP	1	CA106	220051	1
52	Reducing Tee On The Branch 2"x2"x1/2"BSP	3	CA107	220052	3
53	Hexagon Backnut 2" BSP	6	CA108	220053	6
54	Tubing 1 1/4" NB x 6m lg	2	CA110	220054	2
55	Tubing 1" BSP x 6m lg	2	CA111	220055	2
56	Tubing 3/4" NB x 6m lg	8	CA112	220056	8
57	Tubing 1/2" NB x 6m lg	1	CA113	220057	1
58	Tubing 1/4" NB x 6m lg	6	CA114	220058	6
59	Return Bend 1" NB Screwed 1" BSPT	3	CA115	220059	3
60	Tubing 2" NB x 6m lg	25	CA117	220060	25
61	Cutting Ring 1 1/4" NB	25	CA300	220061	25
62	Cutting Ring 1" NB	25	CA301	220062	25
63	Cutting Ring 3/4" NB	25	CA302	220063	25
64	Cutting Ring 1/2" NB	25	CA303	220064	25
65	Cutting Ring 1/4"	25	CA304	220065	25

4.3 HYDRAULIC EQUIPMENTS

A. HYDRAULIC CYLINDERS

Sr. No.	CB Cat No.	CB Part No.	Description	Specifications	OEM	Weight (Kg)	Qty/ Cr.	Qty to be Stocked
1.	310064	HC-1	Relieving Bogie Coupling Pin Brake Cylinder	Bore 63 x Rod 48 x Stroke 294 working Pressure: 75 Bar Test Pressure: 110 Bar	Cattermole Part No. 209093	220	2	2
2.	310065	HC-2	Draw Beam Jack Cylinder	Bore 260 x Rod 180 x Stroke 180 Working Pressure: 170 Bar Test Pressure : 453 Bar	Cattermole Part No. 209094	2462	6	6
3.	310066	HC-3	Draw Beam Extn. Cylinder	Bore 63 x Rod 45 x Stroke 1695 Working Pressure: 170 Bar Test Pressure: 250 Bar	Cattermole Part No. 209095	300	6	6
4.	310067	HC-4	Travel Clutch Cylinder	Bore 63 x Rod 25 x Stroke 80 Working Pressure: 30 Bar Test Pressure: 45 Bar	Cattermole Part No. 209096	18	2	2
5.	310068	HC-5	Heavy Lift Ballast Extension Cylinder	Bore 50 x Stroke 1000 Working Pressure: 50 Bar Test Pressure: 75 Bar	Cattermole Part No. 209097	50	2	2
6.	310069	HC-6	Counterweight Jack Cylinder	Stroke 95 x Rod 60 x Stroke 110 Working Pressure: 180 Bar Test Pressure: 270 Bar	Cattermole Part No. 209098	100	2	2
7.	310070	HC-7	Heavyweight Ballast Jack Cylinder	Stroke 95 x Rod 60 x Stroke 230 Working Pressure: 180 Bar Test Pressure: 270 Bar	Cattermole Part No. 209099	188	4	4
8.	310071	HC-8	Derrick Tie Cylinder	Clevis Mounted Telescopic Tie Rod Cylinder- Single Acting First and Second Stage, Double Acting Third Stage Working Pressure: 52 Bar Test Pressure: 80 Bar	Cattermole Part No. 209100	1179	2	2
9.	310072	HC-9	Relieving Bogie Main Jack Cylinder	90 Bore x 210 Stroke Working Pressure: 250 Bar Test Pressure : 375 Bar	Cattermole Part No. 209101		2	2
10.	310073	HC-10	Relieving Bogie Wishbone Jack Cylinder	50 Bore x 150 Stroke Working Pressure: 70 Bar Test Pressure : 100 Bar	Cattermole Part No. 209102		2	2

B. HYDRAULIC MOTORS AND PUMPS

Sr. No.	CB Cat No.	CB Part No.	Description	Type & Rexroth Part No.	Qty/ Cr.	Qty to be Stocked
1.	310010	HE-7	Travel/Haul/Oil Cooler Motors	Axial Piston Motor A2FM90/61W-PAB020	4	4
2.	310011	HE-8	Aux. Hoist/Slew/ Derrick Motor	Axial Piston Motor A2FM125/61W-PAB020	3	3
3.	310012	HE-9	Main Hoist Motor	Axial Piston Motor A2F160W6.1Z2	1	1
4.	310002	HE-2	M.Hoist / A. Hoist Pump, Derrick / Travel Pump	Variable Displacement Axial Piston Pump A4VG125EP4D1/32LNZFO2FO4- 1SH	2	4
5.	310004	HE-3	Slew / Haul Main Pump	Variable Displacement Axial Piston Pump A4VG56EP4D1/32LNZFO2FO4- 1SH	1	2
6.	310003	HE-2A	Gear Pump	Fixed Displacement Gear Pump GXP05-B1B40-ABR-20	2	4
7.	310005	HE-3A	Gear Pump	Fixed Displacement Gear Pump AZPN-11-022LDC07KB-SOO23	1	2
8.	310041	HE-38	Emergency Stowage Pump	IPF 2, G2-40/0 11LC 20 MB	1	2
9.	310031	HE-28	Semi Rotary Hand Pump	1" B.S.P. No. 2	1	1
10.	500002	F-8	Semi Rotary Hand Pump	1" B.S.P. No. 2	1	1
11.	310074	P-464	Relieving Bogie Ennerpack Hand Pump	-	2	2

C. HYDRAULIC VALVES

Sr. No.	CB Cat No.	CB Part No.	Description	Rexroth Part No.	Qty/ Cr.	Qty to be Stocked
1.	310008	HE 5	Direction Control Valve – Solenoid Operated	H-4 WE H 22E B60/ 6AG 24 NZ4	7	7
2.	310013	HE 10	Direction Control Valve – Solenoid Operated	4 WE 6 D50/ AG 24 N24	8	8
3.	310014	HE 11	Direction Control Valve – Solenoid Operated	4 WE 6 J50/ AG 24 N24	1	1
4.	310015	HE 12	Direction Control Valve – Pilot Operated	VB 1006 D304 VS	1	1
5.	310016	HE 13	Direction Control Valve – Solenoid Operated	4WE H16 D5 X/6AG24 NEZ4 + Subplate	1	1
6.	310042	HE 39	Direction Control Valve - Manually Operated	25 M12 L10 A250 (P11 BNAE) (P11ANAZZ) RO1	1	1
7.	310045	HE 43	R/B Coupling Pin Control Valve	VB 1006 N 305 XL	2	2
8.	310046	HE 44	Drawbeam Control Valve	VB1006 NN 149 XL	5	5
9.	310047	HE 45	Drawbeam Control Valve	VB 1006 NN 150 XL	1	1
10.	310056	HE 57	Ballast Jack Control Valve	VB 1006 NN 150 XL	1	1
11.	310057	HE 58	Motion Control Valve	VAA-B-51C 50 VF 05 -71-10-12-02-35	1	1
12.	310009	HE 6	Crossline Relief Valve	AG 8721-1-0	6	6
13.	310039	HE 36	Crossline Relief Valve	VS D1-30-05-16-03- 03-03-10	3	3
14.	310018	HE 14A	Relief Valve	DB 20 G2-40/200	1	1
15.	310019	HE 14B	Relief Valve	DB 20 G2-40/200	1	1
16.	310032	HE 29	Relief Valve	DB DS 6 G10/50	1	1
17.	310040	HE 37	Pressure Reducer	DR6 DP2-3X/75Y	1	1
18.	310006	HE 4A	Flushing Valve	402692/503-20-01-01	2	2
19.	310007	HE 4B	Flushing Valve	402692/503-20-01-01	1	1
20.	310044	HE 41	Free Wheel Valve	5 V2 H2 OZH	1	1
21.	310022	HE 19	Solenoid operated Lock Valve	VE-1-C-OE15-13-05-S3 -4-OD-02-03-01-3A-OC	2	2
22.	310048	HE 46	Double Operated Lock Valve	VSO-DE-D5-53-01-00 -03-01	2	2
23.	310049	HE 47	Pilot Operated Lock Valve	Z2 S6 A40	2	2
24.	310052	HE 52	Pilot Operated Lock Valve	VSO-SE-05-52-01-00 -03-01	2	2
25.	310023	HE 20	Flow Control Valve	MK 25 G 1.2	1	1
26.	310026	HE 23	Bypass Flow Control Valve	BFR 07 X 7	1	1
27.	310053	HE 53	Flow Regulator	VCD-RU-OE-22-01-04-02	2	2
28.	310054	HE 54	Flow Divider	DRE-OM-51-03-90-02-38	2	2
29.	310055	HE 55	Flow Divider	DRE-OM-51-03-90-02-22	2	2
30.	310030	HE 27	Non Return Valve	NR SV 25 SR	1	1
31.	310038	HE 35	Non Return Valve	S.10A 1.0	1	1
32.	310028	HE 25	Shuttle Valve	VFC-NC-05-99-05-00-09	3	3
33.	310043	HE 40	Differential valve	4WE 6D 50/ AG24 NZ4	1	1
34.	310021	HE 17	Oil cooler Bypass	S.30 A 3.0	1	1

D. MISCELLANEOUS HYDRAULIC EQUIPMENTS

Sr. No.	CB Cat No.	CB Part No.	Description	OEM Part No.	Qty/ Cr.	Qty to be Stocked
1.	310024	HE 21	Boost Line filter	HH 8600 C16 US RBM RC 861R / 24DC	3	3
2.	310025	HE 22	Return Line Filter	HH 8520 F32 US T8 MY 16E	1	1
3.	310058	HE 59	Emergency Hyd. Filter	HH 9800 C12 US RBD	1	1
4.	310033	HE 30	Tank Breather	HC 7500 FUT 4H	1	1
5.	310034	HE 31	Low Boost Pressure Switch	HE D40 A10/100 Z14 L24 S	3	3
6.	310027	HE 24	Pressure Gauge	MS 2A 20 /315	1	1
7.	310037	HE 34	Oil Level Gauge	H00 361.007	1	1
8.	310060	HE 61	Gange Adopters	HSP 219	15	15
9.	310020	HE 16	Oil cooler	A2.104	1	1
10.	310035	HE 32	Tank Drain	Ref. 371	1	1
11.	310036	HE 33	Accumulator	HC2 0-1-1-172	1	1
12.	310029	HE 26	Rotary Column	4H 25-4 B25	1	1
13.	310050	HE 48	2-Station manifold	MSM 06 H2 N C/W Bolts 90 mm	1	1
14.	310061	HE 62	2-Station manifold	14876-0-2	2	1
15.	310062	HE 63	3-Station manifold	14876-0-3	1	1
16.	310063	HE 64	Sub Plate	7068-3	7	4
17.	310051	HE 49	Sub Plate	7068-3	1	1
18.	310017	HE 13A	Sub Plate		1	1

E. HYDRAULIC DRIVE GEAR BOXES

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Make & Specification	Qty/ Cr.	Qty to be Stocked
1.	270001	MH-10	Main Hoist Gearbox	Hamworthy W1450 Ratio 104/1	1	1
2.	270010	AH-4	Aux. Hoist Gear Box	Hamworthy W440 Ratio 44.6/1	1	1
3.	270007	R-3	Slew Gear Box C/W Pinion	Hamworthy S1300 Ratio 148/1	1	1
4.	270004	D-6	Derrick Hoist Gear Box	Hamworthy W1450 Ratio 208/1	1	1
5.	270013	HW-6	Hauling Winch Gearbox	Hamworthy HTLT 123, Ratio 69/1	1	1
6.	270016	T-11	Travel Gearbox	Hamworthy S380 Ratio 17.3/1	2	2
7.	310001	HE 1	Splitter Gear Box (New design: to accommodate 2 HE2 new design pumps in tendum)	Rexroth	1	1

F. HYDRAULIC FITTINGS

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Qty/ Cr.	Qty to be Stocked
1.	300001	HF2	1/8" BSP Male - 1/4" BSP Male Adaptor	11	11
2.	300002	HF3	1/4" BSP Male - 1/4" BSP Male Adaptor	1	1
3.	300003	HF4	1/4" BSP-BSP Male-Male Adaptor	11	11
4.	300004	HF5	1/4" BSP Male - 1/2" BSP Male Adaptor	1	1
5.	300005	HF6	1/4" BSP Female - 1/2" BSP Male Adaptor	1	1
6.	300006	HF7	3/8" BSP Male-Male Adaptor	49	49
7.	300007	HF8	3/8" BSP - 1/2" Male-Male Adaptor	21	21
8.	300008	HF12	3/8" BSP - 3/4" BSP Male-Male Adaptor	6	6
9.	300009	HF14	1/2" BSP Male-Male Adaptor	59	59
10.	300010	HF16	3/4" BSP - 1/2" BSP Male-Male Adaptor	12	12
11.	300011	HF19	1/2" BSP - 1" BSP Male-Male Adaptor	16	16
12.	300012	HF21	1/2" BSP Male 1" BSP Female Adaptor	3	3
13.	300013	HF24	3/4" BSP DMale-Male Adaptor	15	15
14.	300014	HF25	3/4" BSP - 1" BSP Male-Male Adaptor	15	15
15.	300015	HF27	3/4" BSP - 1.1/4" BSP Male-Male Adaptor	7	7
16.	300016	HF28	1" BSP Male-Male Adaptor	33	33
17.	300017	HF29	1" BSP - 1.1/4" Male-Male Adaptor	12	12
18.	300018	HF31	1" BSP Female-1.1/4" BSP Male Adaptor	2	2
19.	300019	HF32	1 1/2" BSP - 1.1/2" BSP Male-Male Adaptor	8	8
20.	300020	HF34	1 1/2" BSP-1.1/4" BSP Male-Male Adaptor	5	5
21.	300021	HF36	1 1/4" BSP Female - 1.1/2" BSP Male Adaptor	1	1
22.	300022	HF37	1 1/2" BSP Male - Male Adaptor	4	4
23.	300023	HF41	M12 Copper Washer	6	6
24.	300024	HF42	1/4" BSP Bonded Rubber Seal	52	52
25.	300025	HF45	3/8" BSP Bonded Rubber Seal	89	89
26.	300026	HF46	M18 Copper Washer	18	18
27.	300027	HF47	1/2" BSP Bonded Rubber Seal	116	116
28.	300028	HF48	M22 Copper Washer	20	20
29.	300029	HF50	3/4" BSP Bonded Rubber Seal	50	50
30.	300030	HF51	1" BSP Bonded Rubber Seal	87	87
31.	300031	HF52	1 1/4" BSP Bonded Rubber Seal	33	33
32.	300032	HF53	1 1/2" BSP Bonded Rubber Seal	27	27
33.	300033	HF55	8 O/D X 1.5 Wall Hyd Steel Tubing x 8m lg	1	1
34.	300034	HF56	10 O/D X 1 Wall Hyd Steel Tubing x 2.5m lg	1	1
35.	300035	HF57	12 O/D X 1.5 Wall Hyd Steel Tubing x 42.0m	1	1
36.	300036	HF58	16 O/D x 2 Wall Hyd Steel Tubing x 64.0m	1	1
37.	300037	HF59	20 O/D x 2 Wall Hyd Steel Tubing x 60m	1	1
38.	300038	HF60	25 O/D x 3 Wall Hyd Steel Tubing x 6.0m	1	1
39.	300039	HF61	30 O/D x 3 Wall Hyd Steel Tubing x 3.0m	1	1
40.	300040	HF63	38 O/D x 5 Wall Hyd Steel tubing x 14.0m	1	1
41.	300041	HF65	1/4" BSP - 8 O/D Male Stud Coupling	6	6
42.	300042	HF72	1/4" BSP - 12 O/D Male Stud Coupling	1	1
43.	300043	HF73	3/8" BSP - 12 O/D Male Stud Coupling	1	1
44.	300044	HF75	M18 x 1.5P - 12 O/D Male Stud Coupling	2	2
45.	300045	HF76	1/2" BSP - 12 O/D Male Stud Coupling	30	30
46.	300046	HF78	1/2" BSP - 16 O/D Male Stud Coupling	9	9
47.	300047	HF81	1/2" BSP - 20 O/D Male Stud Coupling	8	8
48.	300048	HF82	3/4" BSP - 20 O/D Male Stud Coupling	3	3
49.	300049	HF86	1" BSP - 25 O/D Male Stud Coupling	3	3
50.	300050	HF91	1" BSP - 38 O/D Male Stud Coupling	4	4
51.	300051	HF92	1.1/4" BSP - 38 O/D Male Stud Coupling	4	4
52.	300052	HF93	1.1/2" BSP - 38 O/D Male stud Coupling	2	2
53.	300053	HF94	M22 x 1.5P - 16 O/D Male Stud Coupling	5	5
54.	300054	HF97	12 O/D Equal Tee	4	4
55.	300055	HF98	16 O/D Equal Tee	9	9
56.	300056	HF99	20 O/D Equal Tee	8	8
57.	300057	HF100	25 O/D Equal Tee	2	2

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Qty/ Cr.	Qty to be Stocked
58.	300058	HF101	30 O/D Equal Tee	8	8
59.	300059	HF102	38 O/D Equal Tee	10	10
60.	300060	HF106	3/8" BSP Hiflex - Tee	4	4
61.	300061	HF107	3/8" BSP Hiflex - Tee	6	6
62.	300062	HF108	3/8" BSP Hiflex - Tee	3	3
63.	300063	HF110	1/2" BSP Hiflex - Tee	3	3
64.	300064	HF111	1/2" BSP Hiflex - Tee	19	19
65.	300065	HF113	3/4" BSP Hiflex - Tee	2	2
66.	300066	HF114	3/4" BSP Hiflex - Tee	2	2
67.	300067	HF115	1" BSP Hiflex - Tee	2	2
68.	300068	HF116	1" BSP Hiflex - Tee	2	2
69.	300069	HF117	1/2" BSP Hiflex - Tee	3	3
70.	300070	HF121	10 O/D Equal Elbow	8	8
71.	300071	HF122	12 O/D Equal Elbow	17	17
72.	300072	HF124	16 O/D Equal Elbow	19	19
73.	300073	HF126	20 O/D Equal Elbow	23	23
74.	300074	HF128	25 O/D Equal Elbow	2	2
75.	300075	HF130	30 O/D Equal Elbow	1	1
76.	300076	HF132	38 O/D Equal Elbow	5	5
77.	300077	HF144	1/4" BSP Hex Hd Plug	4	4
78.	300078	HF146	3/8" BSP Hex Hd Plug	12	12
79.	300079	HF147	1/2" BSP Hex Hd Plug	12	12
80.	300080	HF148	3/4" BSP Plug Hex Hd	3	3
81.	300081	HF150	1.1/4" BSP Hex Hd.Plug	3	3
82.	300082	HF151	1.1/2" BSP Plug Hex Hd	1	1
83.	300083	HF154	12 O/D Straight Coupling	4	4
84.	300084	HF156	20 O/D Straight Coupling	11	11
85.	300085	HF163	1/4" BSP - 10 O/D Male Stud Standpipe	4	4
86.	300086	HF164	3/8" BSP - 10 O/D Male Stud Standpipe	4	4
87.	300087	HF167	3/8" BSP - 12 O/D Male Stud Standpipe	9	9
88.	300088	HF168	M18 x 1.5P - 12 O/D Male Stud Standpipe	2	2
89.	300089	HF169	1/2" BSP - 16 O/D Male Stud Standpipe	5	5
90.	300090	HF170	3/4" BSP - 20 O/D Male stud stanpipe	8	8
91.	300091	HF171	1" BSP - 25 O/D Male Stud Standpipe	4	4
92.	300092	HF172	1.1/4" BSP - 30 O/D Male Stud Standpipe	1	1
93.	300093	HF173	1.1/2" BSP - 38 O/D Male Stud Standpipe	6	6
94.	300094	HF174	M22 x 1.5P - 16 O/D Male stud Standpipe	2	2
95.	300095	HF175	38 O/D - 30 O/D Reducing Standpipe	2	2
96.	300096	HF192	16 O/D Tube - 12 O/D Tube Reducer	4	4
97.	300097	HF194	16 O/D - 8 O/D Standpipe Tube Reducer	6	6
98.	300098	HF203	16 O/D Bulkead Elbow	12	12
99.	300099	HF210	3/8" BSP Bulkhead Fitting	4	4
100.	300100	HF213	1" BSP Bulkhead Fitting c/w locknut	5	5
101.	300101	HF222	3/8" BSP - 12 O/D Choke Free Banjo Coupling	2	2
102.	300102	HF230	1/4" BSP - 90Deg Adaptor	1	1
103.	300103	HF243	1" BSP Rotary Connection Glenthrope Type 3	4	4
104.	300104	HF248	1/4" BSP Male - 5 O/D Tube Adaptor	12	12
105.	300105	HF249	1/4" BSP Hobbs Elbow	6	6
106.	300106	HF250	1/4" BSP Hobbs Nut	6	6
107.	300107	HF251	1/4" BSP Hobbs Washer	6	6
108.	300108	HF252	5 O/D Nut	24	24
109.	300109	HF253	5 O/D Sleeve	24	24
110.	300110	HF258	8 O/D - 5 O/D Tube Reducer	6	6
111.	300111	HF259	M12 x 1.5P - 8 O/D Adasptor	6	6
112.	300112	HF260	5 O/D Half Hard Copper Tubing x 15m Lg	1	1
113.	300113	HF280	1/2" BSP - 12 O/D Male Stud Pipe	10	10
114.	300114	HF281	1" BSP - 30 O/D Male Stud Standpipe	12	12
115.	300115	HF283	1.1/4" BSP - 38 O/D Male Stud Standpipe	2	2
116.	300116	HF302	12 O/D Welding Bulkheads	4	4

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Qty/ Cr.	Qty to be Stocked
117.	300117	HF315	M22 x 1.5 - 18 O/D Choke free Banjo	1	1
118.	300118	HF315A	M18 x 1.5P Male - 1/2" BSP Male Adaptor	7	7
119.	300119	HF316	3/4" BSP Female - 1.1/2" BSP Male Adaptor	3	3
120.	300120	HF317	3/8" BSP Male - 1/4" BSP Female Adaptor	7	7
121.	300121	HF331	M18 x 1.5P Hex Hd Plug	7	7
122.	300122	HF332	M22 x 1.5P Hex Hd Plug	1	1
123.	300123	QRC1	Male Probe Quick Release Coupling - 3/4" BSP	13	13
124.	300124	QRC2	Female Probe Quick Release Coupling - 3/4" BSP	1	1
125.	300125	QRC3	Male Probe Quick Release Coupling - 3/8" BSP	6	6
126.	300126	QRC4	Female Probe Quick Release Coupling - 3/8" BSP	6	6
127.	300127	QRC5	Dust Cap	12	12
128.	300128	QRC6	Dust Cap	2	2
129.	300129	QRC7	Dust Cap	2	2
130.	300130	QRC8	Dust Cap	4	4
131.	300131	A	Pipe Clamp 20 O/D Pipe	15	15
132.	300132	B	Pipe Clamp 20 O/D Pipe Build Up Type	10	10
133.	300133	C	Pipe Clamp 12 O/D Pipe	12	12
134.	300134	D	Pipe Clamp 20 O/D Pipe Twin	4	4
135.	300135	E	Hose Clamp 40 O/D Double	3	3
136.	300136	F	Hose Clamp 40 O/D Single	3	3
137.	300137	G	Hose Clamp 21 O/D Single	18	18
138.	300138	H	Hose Clamp 18 O/D Double	4	4
139.	300139	J	Hose Clamp 32 O/D	2	2
140.	300140	K	Hose Clamp c/w Bayonet Nut (M8)	2	2
141.	300141	L	Hose Clamp (Build Up)	2	2
142.	300142	M	Hose Clamp 18 O/D Single	12	12
143.	300143	N	Hose Clamp	2	2
144.	300144	P	Hose Clamp	5	5
145.	300145	HS3	O Ring	20	20
146.	300146	HS104	O Ring	20	20
147.	300147	HS107	O Ring	20	20
148.	300148	HS110	O Ring	20	20
149.	300149	HS111	O Ring	20	20
150.	300150	HS112	O Ring	20	20
151.	300151	HS118	O Ring	20	20
152.	300152	HS120	O Ring	20	20
153.	300153	HS121	O Ring	20	20
154.	300154	HD142	O Ring	20	20

4.4. ELECTRICAL EQUIPMENTS

Sr. Description No.	Qty /Cr	CB Cat. No.	Qty to be Stocked
<u>ROTATING MACHINES</u>			
1. SELF STARTER 24 VOLTS FOR MAIN ENGINE	1	-	2
2. ALTERNATOR 24 VOLTS FOR MAIN ENGINE	1	-	2
3. SELF STARTER 12 VOLTS FOR AUX. ENGINE	1	-	2
4. DYNAMO / ALTERNATOR, 12 VOLTS FOR AUX. ENGINE	1	-	2
<u>SWITCHES</u>			
1. ENGINE KEY SWITCH	1	420001	2
2. BATTERY ISOLATOR	1	420002	2
3. KEY SWITCH (BALLAST EXTENSION)	1	420003	3
4. 2 - WAY SELECTION SWITCH	2	420005	8
5. 3 - WAY SELECTION SWITCH	5	420006	3
6. PUSH BUTTON	5	420007	5
7. CONTROL SWITCH (PUSH BUTTON TYPE)	10	420008	5
8. LIMIT SWITCH (AUX. HOIST & DERRICK)	2	420009	2
9. LIMIT SWITCH (MAIN HOIST)	1	420010	1
10. ENGINE OVERSPEED LATCHES (ES 9)	1	420011	3
11. HYD. OIL TEMPERATURE SWITCH	1	420012	1
12. LOW BOOST PRESSURE SWITCH	3	420013	1
13. ENGINE WATER TEMPERATURE DETECTOR (ES 7)	1	420014	2
<u>CIRCUIT BREAKERS</u>			
1. CIRCUIT BREAKER 20 AMPS.	3	440001	3
2. CIRCUIT BREAKER 15 AMPS.	3	440002	3
3. CIRCUIT BREAKER 10 AMPS.	3	440003	3
4. CIRCUIT BREAKER 5 AMPS.	3	440004	3
<u>SENSORS</u>			
1. WATER LEVEL SENSOR (PROBE)	1	450001	3
2. FUEL OIL LEVEL SENSOR	1	450002	1
3. WATER TEMPERATURE SENSOR	1	450003	1
4. ENGINE OIL PRESSURE SENSOR	1	450004	1
5. ENGINE OIL TEMPERATURE SENSOR	1	450005	1
6. HYDRAULIC OIL TEMPERATURE SENSOR	1	450006	1
7. HYDRAULIC OIL FILTER BLOCK SENSOR	4	450007	4
8. TACHOMETER SENSOR	1	450008	1
<u>CONTACT BLOCKS</u>			
1. CONTACT BLOCK - NORMALLY OPEN	20	460001	20
2. CONTACT BLOCK - NORMALLY CLOSED	20	460002	20
<u>METERS & GAUGES</u>			
1. FUEL GAUGE	1	470001	1
2. WATER TEMPERATURE GAUGE	1	470002	1
3. ENGINE OIL PRESSURE GAUGE	1	470003	1
4. ENGINE OIL TEMPERATURE GAUGE	1	470004	1
5. HYDRAULIC OIL TEMPERATURE GAUGE	1	470005	1
6. ENGINE HOUR METER	1	470006	1
7. TACHOMETER - RPM (ELECT)	1	470007	1
8. BATTERY AMMETER	1	470008	1
9. TACHOMETER - RPM (MECH)	1	470009	1
10. LUB. OIL PRESSURE GAUGE	1	470010	1
11. BATTERY AMMETER	1	470011	1

Sr. Description No.	Qty /Cr	CB Ref. No.	CB Cat. No.	Qty to be Stocked
<u>GENERAL</u>				
1. CAB VENTILATOR	1		480001	2
2. WINDSCREEN WIPER MOTOR C/W ARM & BLADE	1		480002	2
3. AUDIBLE ALARM 24 V	1		480005	2
4. FUSE LINK 4 AMPS.	3		480006	3
5. TERMINALS	20		480012	40
6. AMPLIFIERS (HYD. CONTROL)	3		480013	3
7. JOYSTICK (HYD. CONTROL)	3		480014	3
8. INDICATOR HOLDER	7		480015	28
9. GAUGE LAMP HOLDER	8		480016	8
10. GAUGE LIGHT BOX	3		480017	6
11. DROOPING REGISTER (FUEL TANK)	1		480018	3
12. JIB FLOOD LIGHT	1		400001	3
13. FRONT FLOOD LIGHT	2		400002	6
14. REAR FLOOD LIGHT	1		400003	3
15. CAB LIGHT	1		400004	2
16. ENGINE HOUSE LIGHT	2		400005	2
17. GAUGE ILLUMINATION LAMP	8		400007	8
18. INDICATION LAMP	7		400008	14

4.5. SAFE LOAD INDICATOR

Existing Safe Load Indicator system has become obsolete hence no spares of this design are available. The SLI is being retrofitted with new design system of M/s Mechanica.

4.6 WIRE ROPES

Sr. No.	DESCRIPTION	SPECIFICATION	Qty /Cr	CB Cat. No.	Qty to be Stocked
A. WIRE ROPES					
1.	Main Hoist Wire Rope 36mm Dia. X 282 M	Steel Wire Rope to IS: 2266/2002 36mm Dia X 282 m Lg. Reeled. 6 x 36 Construction. IWRC. Tensile Strength 180 Kg/mm ² . RH Ordinary Lay. Min. Breaking load 83.2 Tonnes F. One end to be fused and tapered to pass through 40mm Dia hole, other end to be fitted with a 1-1/2" (38mm) open socket to BS: 463 Pt. I. (IS: 2485/1963) coupled with 2-1/4" (58mm) Dia Pin and Split Pin.	1	320001	2
2.	Aux. Hoist Wire Rope 26mm Dia. X 118 M	Steel Wire Rope to IS: 2266/2002 26mm Dia X 118 m Lg. Reeled. 6 x 36 Construction. IWRC. Tensile strength 180Kg/mm ² . RH Ordinary Lay. Min. Breaking Load 43.3 Tonnes F. One end to be fused and tapered to pass through 28mm Dia hole (Taper not to exceed 50mm Lg.). Other end to be fitted with a 1" (25mm) open socket to BS: 463 Pt. I. (IS: 2485/1963) coupled with 1-1/2" (38mm) Dia Pin and Split Pin.	1	320002	2
3.	Hauling Winch Wire Rope, 22 mm Dia.	Steel Wire Rope to IS: 2266/2002 22mm Dia X 60 m Lg. Reeled. 6 x 36 Construction. IWRC. Tensile strength 180Kg/mm ² . RH Ordinary Lay. Min. Breaking Load 31 Tonnes F. One end to be fused and tapered to pass through 26mm Dia hole. Other end to be fitted with a 7/8" (22mm) open socket to BS: 463 Pt. I. (IS: 2485/1963) coupled with 1-1/4" (32mm) Dia Pin and Split Pin.	1	320003	2
4.	Derrick Steel Wire Rope, 32mm Dia.	Steel Wire Rope to IS: 2266/2002 32mm Dia X 271 m Lg. Reeled. 6 x 36 Construction. IWRC. Tensile strength 180Kg/mm ² . RH Ordinary Lay. Min. Breaking Load 65.7 Tonnes F. Both ends to be fused and tapered to pass through 35mm Dia hole.	1	320004	2
5.	Derrick Tie Wire Rope, 76mm Dia.	Steel Wire Rope, 76mm Dia. 6X49 Construction. (2 Nos. in matched pair, each of 9 M Long)	1 Set	320005	1 Set

4.7 PULLEYS, BEARINGS, LOCK NUTS & WASHERS

A. PULLEYS

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Qty/ Cr.	Qty to be Stocked
1.	560001	SF 2	PULLEY, DERRICK SUPERFRAME IN SET	8	8
2.	560002	JB 1	PULLEY, DERRICK JIB BRIDDLE IN SET	8	8
3.	560003	SF14	EQUALISING PULLEY	1	1
4.	560004	J 2	MAIN HOIST PULLEY IN SETS	12	12
5.	560005	J 4	MAIN HOIST GUIDE PULLEY	1	1
6.	560006	J 8	AUX. HOIST PULLEY IN SETS	4	4
7.	560005	J 5	AUX. HOIST GUIDE PULLEY	1	1

B. PULLEY BEARINGS, LOCK NUTS & WASHERS

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Qty/ Cr.	Qty to be Stocked
1.	350001	HB13	Main Hoist Block Thrust Bearing SKF 29336 E	1	1
2.	350002	LB10	Aux. Hoist Block Thrust Bearing SKF 51317 E	2	2
3.	350003	MH4	M/Hoist & Derrick Pedstal Thrust Bearing	2	2
4.	350004	AH9	A/Hoist Barrel Pedstal Bearing	1	1
5.	350005	LB11	A/Hoist Block Pulley Shaft Locknut	2	2
6.	350006	HB14	M/Hoist Block Pulley Shaft Locknut	2	2
7.	350007	JB10	Jib Bridle Pin Locknut	2	2
8.	350008	SF6	"A" Frame Pulley Pin Locknut	2	2
9.	350009	LB12	Aux Hoist Block pulley Shaft Locknut Washer	1	1
10.	350010	Hb15	Main Hoist Block pulley Shaft Locknut Washer	1	1
11.	350011	JB9	Jib Bridle Pin Lockwasher	2	2
12.	350012	SF7	"A" Frame Pulley Pin Lockwasher	2	2
13.	350014	JB3	Jib Bridge Pulley Bearing	8	8
14.	350015	J6	Main/Aux Hoist Guide Pulley Bearing	4	4
15.	350016	J9	Aux Hoist Pulley Bearing- SL 04 - 5022 PPX (INA)	4	4
16.	350017	J2/SF19	M/Hoist & Equalising Pulley Bearings- SL 04 - 5026 PPX (INA)	13	13
17.	350018	SF3	"A" Frame Pulley Bearings	9	9
18.	350019	J3/SF20	M/Hoist Pulley & Equalising Pulley Circlips	26	26
19.	350020	J7	M/Hoist & A/Hoist Pulley Circlips (WRE200)	4	4
20.	350021	J10	A/Hoist Pulley Bearing Snap Ring (WRE170)	8	8
21.	350022	JB4	Jib Bridle Pulley Circlips	16	16
22.	350023	SF4	`A' Frame Pulley Bearing Circlip/Snap Ring	18	18
23.	350024	MH5	MH/Derrick Pulley Bearing Circlip	2	2

4.8 SUPERSTRUCTURE

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Qty/ Cr.	Qty to be Stocked
Set of Slew Ring Bolts C/W Nuts					
1.	370002	R 5	M42 X 420 LG. C/W NUTS & WASHER	48	48
2.	370003	R 9	M42 X 420 LG. C/W NUTS & WASHER	70	70
3.	370004	R 6	M42 X 325 LG. C/W NUTS & WASHER	44	44
4.	370007	SF 9	SUPER FRAME BUSH SPLIT BEARING	2	2

4.9 BOGIES

Sr. No.	CB Cat. No.	CB Ref. No..	Description	Qty/ Cr.	Qty to be Stocked
1.	-	BF 1	CARRIAGE BOGIE ASSEMBLY COMPLETE	2	2
2.	-	-	RELIEVING BOGIE ASSEMBLY COMPLETE	2	2
3.	-	WT 1	WHEEL (CARRIAGE & RELIEVING BOGIE)	20	20
4.	-	AT 1	DRIVING AXLE	2	2
5.	-	AT 2	TRAILING AXLE	4	4
6.	-	AT 4	RELIEVING BOGIE AXLE	4	4
7.	610001	C 14A	CARRIAGE AXLE BOX ADOPTER	8	8
8.	610002	C 14B	CARRIAGE AXLE BOX ADOPTER	4	4
9.	610003	RB 9	RELIEVING BOGIE AXLE BOX ADOPTER	8	8
10.	610004	-	FAG MK - 150 C Roller Bearing For Crane Carriage Axle Boxes	12	2
11.	610005	-	FAG MK - 140 C Roller Bearing For Crane R/B Axle Boxes	8	2
12.	360030	RB 18	CARRIAGE END CASTING	4	4
13.	360027	LD 1	RELIEVING BOGIE LATERAL DAMPER	2	2
14.	360034	C 20	Bottom Pivot Casting – Crane Bogie	2	2
15.	360035	C 21	Top Pivot Casting – Crane Bogie	2	2
16.	360038	RB 11	Relieving Bogie Centre Casting (in halves)	2	2
17.	-	LB 1	Hook - Auxiliary Hoist Block	1	2
18.	-		Centre Draw Coupling 37.5 T	2	2