ANNEXURE-IV

MAINTENANCE CHECK LIST

SCHEDULE OF DAILY ROUTINE CHECKING (CRANE WISE)

SITE:			**MONTH:**	
CRANE MODEL:			**CRANE SL NO.:**	
SL. NO.	**IDENTIFICATION**	**CHECK ITEM**	**CHECKING METHOD**	**REMARKS**
1	**Fuel and Hydraulic System Hose**	Damage or Leakage, Supply Fuel If Required in Fuel Tank.	Visual Check	
2	**Engine**	Starting ,Leak, Unusual Noise,Check Engine Oil Level- Fill If required	starting , Check by Hearing	
3	**Radiator**	Check Coolant Level- Fill If Required by Soft water	Visual Check - Both Radiator Tank and Sub Tank	
4	**Hydraulic oil Tank**	Check Oil Level- Add Hydraulic oil If Required	Visual Check	
5	**Hose , Piping , Connector**	Oil Leak	Visual Check	
6	**Swing Brake**	Effectiveness	Operation- when the swing brake is engaged , swinging is impossible.	
7	**Swing Lock**	Performance	Operation - Confirm that the swing lock pin is inserted smoothly. Check the lock pin and rod for deformities.	
8	**Control Lever**	Play, Deformation	Operation , Visual Check	
9	**Gantry , MAST**	Deformation, Crack	Visual Check- Inspect	
10	**Horn, Head Light, Wiper**	Performance	Operation -Normally by Switch Operate, Visual Check	
11	**Air Cleaner**	Clogging (Indicator)	Visual Check- Use the Indicator to determine.	
12	**Pin, Link, Cotter Pin,Bolt, Nut**	Damage, Falling off ,Looseness	Visual Check	
13	**Hook Overhoist Preventive Device**	Performance	Operation	
14	**Boom Overhoist Preventive Devices**	Performance	Operation	
15	**Load Safety Device**	Performance	Operation	
16	**Drum Lock Knob**	Performance	Operation- Check in operating cab drum lock function	
17	**Window Glass , Steps, Handle & Guard**	Damage, Falling off, crack	Visual Check- Immediately remove any grease & oil.	
18	**Swing Neutral Free Indicator Lamp**	Fillament is gone	Operation , Visual Check	
19	**Drum Brake Free Fall ndicator Lamp (Wherever applicable)**	Fillament is gone	Visual Check - FFIL light up when a drum brake selector switch is shifted to free fall position after the engine starts.	
20	**Drum Brake Disc**	Wear	Visual Check - with Indicator	
21	**Seave , Frame**	Deformation, Crack,Wear	Visual Check	
22	**Hook, Wire Lock**	Damage, Looseness	Visual Check - Inspect Sheave, Bearing and Hook Latch of Hook Block for damage.	
23	**Cable Roller**	Damage, Deformation, Wear	Visual Check - For insert boom & upper boom.	

ANNEXURE-IV

MAINTENANCE CHECK LIST

SCHEDULE OF WEEKLY ROUTINE CHECKING (CRANE WISE)

SITE:	**MONTH:**
CRANE MODEL:	**CRANE SL NO.:**

SL. NO.	IDENTIFICATION	CHECK ITEM	CHECKING METHOD	REMARKS
1	**Fuel Pre Filter**	Water Level	Visual Check-Drain Water From Fuel Pre Filter	
2	**Drum Lock (Front,Rear, Third, Boom Drums)**	Greasing	Apply Extreme Pressure Grease (EPG)	
3	**Hydraulic Oil Tank**	Drain	Drain the Hydraulic Oil Tank	
4	**Slewing Ring Bearing**	Grease	Apply Extreme Pressure Grease (EPG)	
5	**Slewing Ring gear**	Grease	Apply molybdenum Disulphide Grease (MDG)	
6	**Lower Roller,Idler Roller**	Check Oil Level	Apply Gear Oil	
7	**Upper Roller**	Check oil level	Apply Gear Oil	
8	**Lower Spreader Frame, Hook Sheave / pulley, Hook Bearing, Ball Hook Bearing, Luffing Jib Drum Lock, Guide Sheave**	Grease	Apply Extreme Pressure Grease (EPG)	

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ANNEXURE-IV

MAINTENANCE CHECK LIST

SCHEDULE OF MONTHLY ROUTINE CHECKING (CRANE WISE)

SITE:			**MONTH:**	
CRANE MODEL:			**CRANE SL NO.:**	
SL. NO.	**IDENTIFICATION**	**CHECK ITEM**	**CHECKING METHOD**	**REMARKS**
1	**Fan Belt**	Looseness , Damage	Visual Check- Push with Finger, Defle -ction of 10 to 15 mm	
2	**Engine Mounting Bolt, Rubber Mount**	Looseness, damage	Visual Check,Test Hammer	
3	**Radiator, Oil Cooler**	Oil Leak, damage	Visual Check- Clean the Radiator Core	
4	**Power Divider Hydraulic motor , Reduction unit**	Oil Leak, Unusual noise	Visual Check, Check by hearing	
5	**Hydraulic Pump**	Oil Leak, Unusual Sound	Visual Check, Check by hearing	
6	**Valve etc.**	Oil Leak	Visual Check	
7	**Gantry Cylinder ,mast Arm Cylinder, Drum Lock**	Oil Leak , Damage ,any wear	Visual Check	
8	**Fuel Supply Pump & hose**	Proformance & Damage	Operation Should be normal, Visual Check the damage	
9	**Swing Alarm Lamp**	Alarm Sound , Filament is gone	Operation, Visual Check - Flasher fuction properly or not	
10	**Swivel Joint**	Oil Leak	Visual Check	
11	**Slewing Ring Bearing**	unusual Noise	Check by Hearing	
12	**Crawler shoe**	Extension , Damage, Wear	Visual Check- Slackening of 10 to 20 mm	
13	**Main Hoist Wire Rope, Auxilliary hoist,luffing Jib Hoist, (All Wire Ropes), Boom Guy Line, Luffing Jib Guy Line, Jib Guy Line.**	All to be Lubricate	Apply Extreme **EPG-**Pressure Multipurpose grese **(Lithium Base Grease or Cardium compound as applicable.)**	

ANNEXURE-IV

MAINTENANCE CHECK LIST

SCHEDULE OF QUARTERLY ROUTINE CHECKING (CRANE WISE)

SITE:			**DATE:-**	
CRANE MODEL:-			**CRANE SL. NO.:**	
SL. NO.	**IDENTIFICATION**	**CHECK ITEM**	**CHECKING METHOD**	**REMARKS**
1	**Drive Sprocket, Crawler Idler, Upper & Lower Rollers**	Oil Leak, Damage	Visual Check-Inspect Oil leak & Damage	
2	**Slewing ring Bearing Mounting Bolt**	Looseness, Fallimg Off	Visual Check-Any Missing / damage, Clean and Secure	
3	**Winch Reduction Unit (Front, Rear, Boom)**	Check Oil Level	If Oil Level is below the red mark add with lub oil Gear Oil as per OEM recommendation	
4	**Engine**	Replace oil	Replace with Engine Oil as per OEM recommendation **-** Change the Oil Filters also.	
5	**Battery inspection**	Check up Charge Condition	Check Battery Electrolyte Level. Add If Required.	

ANNEXURE-IV

MAINTENANCE CHECK LIST

SCHEDULE OF HALF-YLY &YLY ROUTINE CHECKING (CRANE WISE)

SITE:	**DATE:-**
CRANE MODEL:	**CRANE SL. NO.:**

HALF YEARLY

SL NO.	IDENTIFICATION	CHECK ITEM	CHECKING METHOD	REMARKS
1	**Accumulator**	Oil Leak, Damage	Visual Check-inspect for Oil Leak	
2	**Frame**	damage & Crack	Visual Check-Inspect Car Body & Crawler Frame for Crack	
3	**Fuel Tank**	Drain	Loosen the Drain Plug, Drain water & Sediment From Tank	

YEARLY

SL NO.	IDENTIFICATION	CHECK ITEM	CHECKING METHOD	REMARKS
1	**Radiator**	Replace Coolant	Drain after cool- replace by Soft Water	
2	**Swing reduction Unit**	Replace Oil	Replace with Gear Oil as per OEM recommendation	
3	**Winch Reduction Unit (Front, Rear, Boom)**	Replace Oil	Replace with Gear Oil as per OEM recommendation	
4	**Power Divider**	Replace Oil	Replace with Gear Oil as per OEM recommendation	
5	**Hydraulic Oil Tank**	Replace Oil	Replace with Gear Oil as per OEM recommendation	
6	**Propel Reduction Unit**	Replace Oil	Replace with Gear Oil as per OEM recommendation	
7	**Winch Reduction Unit (Fly jib Drum)**	Replace Oil	Replace with Gear Oil as per OEM recommendation	
8	**All Sheaves, Mast Point Sheaves,Cable roller , Auxilliary Sheave, Boom & jib point Sheaves, Guide Sheaves, Guide Roller, Strit Point Sheaves,**	All to be Grease	Apply Extreme **EPG-**Pressure Multipurpose grease **(Lithium Base Grease)**	
9	**Counter Weight Handling Link.**	Lubricate	Apply Extreme **EPG-**Pressure Multipurpose grease **(Lithium Base Grease)**	