

Title	Maintenance – Coiled Tubing Equipment					
Target Population	Field Engineers, Field Specialists & Equipment Operators					
This requirement is applicable to:	✓	JFE	✓	FST	✓	EOT
	✓	FE1	✓	FS1	✓	EO1
		FE2		FS2	✓	EO2
				FS3	✓	EO3
					✓	GEO

Objective:

The objective of this task is to evaluate and verify the employee's competency in performing basic maintenance on Coil Tubing Unit under supervision including:

Description		JFE	FE1	FST	FS1	EOT	EO1	EO2	EO3	GEO
1	Batch Mixer	✓		✓		✓	✓			✓
2	Fluid Pumping Unit	✓		✓			✓	✓		✓
3	Nitrogen Converter	✓	✓		✓			✓	✓	✓
4	Coiled Tubing Unit including:	✓	✓		✓				✓	✓
	Power Pack									
	Control Cabin									
	CT Reel									
	Injector Head									
	Pressure Control Equipment			✓						
5	Basic BHA Components	✓	✓	✓				✓	✓	✓

The employee should be able to identify the components of CT equipment including those found in hydraulic circuits, explain their functions, ratings and maintenance procedures. This include filling out the EMC 1 form.

He should have basic knowledge of hydraulics including the various components and principles of operations.

Tasks:

The employee will be assigned under an experienced mechanic / electrician or a mentor in the base to guide him in performing the maintenance tasks. This include tracing of the hydraulic lines by referring to Operation and Maintenance Manual.

1. Identify the main components and functions of CTU (i.e. injector head, CT reel, stripper, BOP etc.)
2. Identify main components and functions of basic BHA
3. Physically check the CTU components and fill out the EMC 1 form.
4. Assist in assembly and disassembly of the following components (whenever possible):
 - injector head conversion. identify each parts.

- Reel swivel maintenance. Identify each parts.
 - Stripper (replace inserts/brass bushing). Identify each parts.
 - BOP conversion/replacing inserts including function and pressure testing. Identify each parts.
 - Downhole tools (connectors, check valves, nozzles)
5. Show and explain the hydraulics system of the CT unit.
 6. Prepare a report for the activities and explain it to the assigned mentor

IMPORTANT NOTE: The assigned Assessor must conduct the required evaluation to evaluate employee's competency and provide feedback through the respective Task Evaluation Forms PRIOR TO completing this Task Sheet.

This task is deemed INCOMPLETE without the Task Evaluation Forms

Brief summary of employee's learning outcome (to be completed by Assessor):

AFTER REVIEW ALL THE DOCUMENT INPUT, I HAVE BRIEF ALL THE TASK THAT RELATE TO EMC II IS GOOD

Assessor's Comments & Recommendation:

GOOD PERFORM

Signature		Assessment Date	30/8/24
Name	AZMAN ABD RAZAK	Position	C/MECHANIC

FSM / OM Comments & Recommendation:

Able to perform maintenance standalone

Signature		Assessment Date	30/8/24
Name	RIOHMAN AZMAN	Position	BM

DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type : DSQ4 Side Door Stripper							
Equipment number : C10/SDS/01							
Y	N	Checklist					
Appearance & Safety Equipment:							
<input checked="" type="checkbox"/>		Ensure unit is clean					
<input checked="" type="checkbox"/>		Physically check body for damages					
Connections:							
<input checked="" type="checkbox"/>		Check for any leaks at connections					
<input checked="" type="checkbox"/>		Check threads condition					
<input checked="" type="checkbox"/>		Check hydraulic fittings and hoses condition					
<input checked="" type="checkbox"/>		Check seals faces and grooves					
<input checked="" type="checkbox"/>		Grease when required					
<input checked="" type="checkbox"/>		Plastic caps on all fittings					
Stripper Elements:							
<input checked="" type="checkbox"/>		Check packer elements condition					
<input checked="" type="checkbox"/>		Check energizer condition					
<input checked="" type="checkbox"/>		Check brass bushings condition					
<input checked="" type="checkbox"/>		Check non-extrusion rings condition					
Seals & Back-up Rings:							
<input checked="" type="checkbox"/>		Check M-seal and backup seal condition					
<input checked="" type="checkbox"/>		Check O-ring and backup seal on CB connection					
Pressure & Function Test:							
<input checked="" type="checkbox"/>		Test stripper pack and retract function					
<input checked="" type="checkbox"/>		Check communication with the cabin					
<input checked="" type="checkbox"/>		Pressure test as required (prior to load out)					
Please state the equipment readiness							
Ready				Not Ready			
- Ready for next job							
Maintenance type done (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
Faiyuddin		GEO		Ludi		J M. Taufiq	

DIMENSION BID

Equipment Maintenance Checklist 1

PRE JOB	LOCATION
✓	

ON JOB	LOCATION
✓	DL-A

POST JOB	LOCATION

Equipment type : CTU Injector Head HR680		
Location Mob/Demob : DL-A		
Equipment number : CTU 114 / 01		
Y	N	Checklist
Appearance & Safety Equipment:		
✓		Ensure unit is clean
✓		Skid condition - visually check for any damage
✓		Walkway/Ladders - check for any damage
Lubrication:		
✓		Chain lube oil tank level
✓		Grease at all grease point
Hydraulic System:		
✓		Check all hydraulic Hoses for damage, leaks or wear
✓		Fitting & coupling condition
✓		Check accumulators for correct precharge:
		Upper Traction 380 psi
		Middle Traction 380 psi
		Lower Traction 380 psi
		Outside Tension 380 psi
ins:		
✓		Chains in clean condition
✓		Check chain, rollers, bearings, pins & gripper blocks condition
✓		Check chain alignment
✓		Check for unusual noise when running
Chain Tensioner System:		
✓		Check all sprockets for wear and damage
✓		Grease all bearings - drive and idler sprocket
✓		Check cylinders for wear and damage
Drive Motor & Gear Box:		
✓		Check gearbox lubricant level
✓		Function test drive and brake system
✓		Check for any leak or damage
Gooseneck:		
✓		Check gooseneck alignment (prior to stab in)
✓		Check gooseneck rollers for damages
✓		Check linkages, pins, locking, covers and supports condition

Running Feet :		
Date : 28/8/24		
Y	N	Checklist
Recording & Monitoring Devices:		
✓		Check operation & condition of friction wheel
✓		Electronics - check cables/connectors condition
✓		Depth counter - check alignment and condition
✓		Depth encoder - check condition and function test
✓		Wellhead pressure transducer - check condition
✓		Secure Load Cell - weight off load cell
Certifications:		
		Sling condition/ Due on 11-2024
		MPI due 11-2025
		Visual Test due 11-2024

Please state the equipment readiness

Ready

Not Ready

- Unit is ready for next job

Maintenance type done. (Please state if any spare used)

Preventive Maintenance

Corrective Maintenance

NAME

POSITION

EXAMINER SIGNATURE

VERIFIED BY

Fairuddin

GEO

lurh

J

M. TAUFIQ

DIMENSION BID

Equipment Maintenance Checklist 1

PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	DL-A		

Equipment type : Equipment Transport Basket

Equipment number : ETB 02

Y N Checklist

Appearance & Safety Equipment:

- ☒ Ensure unit is clean
- ☒ Skid condition - visually check for any damage
- ☒ Walkway/Ladders - check for any damage
- ☒ Ensure anti slip installed at walkway/ladder
- ☒ Ensure safety pin available for securing equipment inside ETB

Labelling

- ☒ MGW and SWL in place
- ☒ Last annual inspection

Lifting Devices

- ☒ Inspection on shackles and pins, slings and lugs
- ☒ MPI on pad eye if necessary
- ☒ Mark the inspection date and due date
- ☒ All protection caps and ID tags in place.

Corrosion, Dent, Defects in Weld

- ☒ Check for rust in weld, no leaks

Safety Equipment and Certification

- ☒ Visual inspection of all pad eyes and lifting gear
- ☒ Safety guards and rail in working condition

Location Mob/Demob : DL-A

Date : 28/8/24

Y N Checklist

Certifications:

- Sling condition/ Due on Nov 28/24
- MPI due Oct 25
- Visual Test due Nov 24

Please state the equipment readiness

Ready

Not Ready

Maintenance type done (Please state if any spare used)

Preventive Maintenance

Corrective Maintenance

NAME

Fairuddin

POSITION

GEO

EXAMINER SIGNATURE

[Signature]

VERIFIED BY

[Signature] M. TAUFIQ

DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION																																																																																																																																																																																																				
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DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
		✓	DL-A	✓	DL-A		
Equipment type : CTU Control Cabin		Location Mob/Demob : DL-A					
Equipment number : CTU / CC / 01		Date : 28/8/24					
Y	N	Checklist					
Appearance & Safety Equipment:							
✓		Ensure unit is clean					
✓		Skid condition - visually check for any damage					
✓		Fire extinguisher is present and certified					
Cabin - General:							
✓		Inspect hoses for excessive wear					
✓		Check all attaching hardware for tightness					
✓		Check under panels for sign of leaking hoses					
✓		Check hoses for signs of weeping					
✓		Inspect cabling and fittings for excessive wear/damage					
✓		Check horn operation					
✓		Check internal and external lighting is operational					
✓		Lighting system all in working condition					
✓		Windscreen in good condition (No crack or damage)					
✓		Air conditioner working in good condition					
✓		Frame locking pins					
✓		Clean Cabin Interior					
✓		Secure all drain plug					
✓		Roof in good condition / Door not need to put rubber					
✓		Electronics & electrical system in good condition					
✓		Computers and monitor in working condition/secured					
NA		Condition/Operation of rain cap					
NA		Condition of exhaust wrap					
Controls:							
✓		Function test emergency kill					
✓		Function test engine shut-down					
✓		Manual stripper control in working condition					
✓		Manual BOP control in working condition					
✓		Chain tension and traction in working condition					
✓		Injector chains lube valve in working condition					
✓		Injector Head in working condition					
✓		Levelwind override clutch and raise/lower condition					
✓		Reel drive in working condition					
✓		Reel brake in working condition					
Please state the equipment readiness							
Ready				Not Ready			
<p>- Unit is ready but when rain come, water splash into cabin through main door. Need to put floor rubber once unit coming back to KSB</p>							
Maintenance type done (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
Zaimuddin		GEO		Indi		J M. TAUFIQ	

DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB <input checked="" type="checkbox"/>	LOCATION <input type="checkbox"/>	ON JOB <input checked="" type="checkbox"/>	LOCATION <input type="checkbox"/>	POST JOB <input type="checkbox"/>	LOCATION <input type="checkbox"/>
Equipment type : Single BOP Shear/Seal		Location Mob/Demob : <u>Dulang A</u>					
Equipment number : <u>CT/5BOP/101</u>		Date : <u>28/8/24</u>					
Y	N	Checklist					
Appearance & Safety Equipment:							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ensure unit is clean					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Visually check for any damage					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Guard and shield in place					
Rams & Body:							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check for any damage. Thoroughly clean the unit.					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Inspect all blades condition					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Equalizing valve - inspect and clean					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check all seals condition					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Visual check of bottom O-ring / back-up					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Visual check of bottom ring gasket BX155					
Hydraulics & BOP Functions:							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check hydraulic hoses and connectors condition					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check condition of hose canvas					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manual lock - grease and function test					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ram functions - cycle all rams (open & close)					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Indicators/ pins - ensure full movement					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ram equalizing valve - function test					
Pressure Test:							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blind/Shear ram to 5000psi for 10 min					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Body to 5000psi for 10 min					
X-Over:							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	BX155 Flange x CB44 Pin - Valid on certification					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	BX155 Flange x CB44 Box - Valid on certification					
Connections:							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Studs, bolts and nuts for flanges - clean and check condition					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2 1/16" to Fig1502 thread installed and pressure tested					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lifting cap installed - Clean and grease					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grease CB44 Pin & box connection					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Thread / Flanges protectors - installed					
Please state the equipment readiness							
Ready				Not Ready			
Maintenance type done (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME <u>Fairuddin</u>		POSITION <u>GE0</u>		EXAMINER SIGNATURE <u>[Signature]</u>		VERIFIED BY <u>[Signature]</u>	

DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type : Dual Combi BOP		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	DL + A		
Equipment number : GTU / BOP / 01							
Y	N	Checklist					
Appearance & Safety Equipment:							
<input checked="" type="checkbox"/>		Ensure unit is clean					
<input checked="" type="checkbox"/>		Visually check for any damage					
<input checked="" type="checkbox"/>		Guard and shield in place					
Rams & Body:							
<input checked="" type="checkbox"/>		Check for any damage. Thoroughly clean the unit.					
<input checked="" type="checkbox"/>		Inspect all blades condition					
<input checked="" type="checkbox"/>		Equalizing valve - inspect and clean					
<input checked="" type="checkbox"/>		Check all seals condition					
<input checked="" type="checkbox"/>		Visual check of bottom O- ring / back-up					
<input checked="" type="checkbox"/>		Visual check of bottom ring gasket BX155					
Hydraulics & BOP Functions:							
<input checked="" type="checkbox"/>		Check hydraulic hoses and connectors condition					
<input checked="" type="checkbox"/>		Check condition of hose carinas					
<input checked="" type="checkbox"/>		Manual lock - grease and function test					
<input checked="" type="checkbox"/>		Ram functions - cycle all rams (open & close)					
<input checked="" type="checkbox"/>		Indicators/ pins - ensure full movement					
<input checked="" type="checkbox"/>		Ram equalizing valve - function test					
Pressure Test:							
<input checked="" type="checkbox"/>		Pipe/Slip to 5000psi for 10 min					
<input checked="" type="checkbox"/>		Blinde/Shear ram to 5000 psi for 10 min					
<input checked="" type="checkbox"/>		Body to 5000 psi for 10 min					
X-Over:							
<input checked="" type="checkbox"/>		BX155 Flange x CB44 Pin - Valid on certification					
<input checked="" type="checkbox"/>		BX155 Flange x CB44 Box - Valid on certification					
Connections:							
<input checked="" type="checkbox"/>		Studs, bolts and nuts for flanges - clean and check condition					
<input checked="" type="checkbox"/>		2 1/16" to Fig1502 thread installed and pressure tested					
<input checked="" type="checkbox"/>		Lifting cap installed - Clean and grease					
<input checked="" type="checkbox"/>		Grease CB44 Pin & box connection					
<input checked="" type="checkbox"/>		Thread / Flanges protectors - installed					
Please state the equipment readiness							
Ready				Not Ready			
Maintenance type done. (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
Fairuddin		GEO		Ludin		I M-TAUFIQ	

DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type : DID2000 Reel Frame				Location Mob/Demob :			
Equipment number : CTU				Date :			
Y	N	Checklist		Y	N	Checklist	
Appearance & Safety Equipment:				Lubrication:			
<input checked="" type="checkbox"/>		Ensure unit is clean		<input checked="" type="checkbox"/>		Grease all lubrication points	
<input checked="" type="checkbox"/>		Physically check frames and skid for damages					
<input checked="" type="checkbox"/>		Check walkway/ladder for any damages					
<input checked="" type="checkbox"/>		Loads secured					
<input checked="" type="checkbox"/>		Ensure anti slip installed at walkway/ladder					
Swivel and Fluid Manifold:				Counter:			
<input checked="" type="checkbox"/>		Manifold complete and secured		<input checked="" type="checkbox"/>		Check counter wheel condition	
<input checked="" type="checkbox"/>		Grease plug valves and chiksans		<input checked="" type="checkbox"/>		Function test the counter	
<input checked="" type="checkbox"/>		Swivel bolts in place		<input checked="" type="checkbox"/>		Counter assembly rollers correct for size tubing	
		Pressure test as required					
Reel Drive System:				Tubing Length Monitor:			
<input checked="" type="checkbox"/>		Check drive chains condition and lubricate accordingly		<input checked="" type="checkbox"/>		Check tubing condition	
<input checked="" type="checkbox"/>		Check chain case oil level		<input checked="" type="checkbox"/>		Check sensor mount condition	
<input checked="" type="checkbox"/>		Grease main bearing accordingly		<input checked="" type="checkbox"/>		Check guides and rollers condition	
<input checked="" type="checkbox"/>		Check hydraulic hoses and connections for leaks/damages		<input checked="" type="checkbox"/>		Check the connections and cables condition	
Reel Brake System:				Pressure Test:			
<input checked="" type="checkbox"/>		Check for any damages		<input checked="" type="checkbox"/>		Reel - Check for any leakage	
<input checked="" type="checkbox"/>		Test reel brake and drive system		<input checked="" type="checkbox"/>		Manifold- Check for any leakage	
<input checked="" type="checkbox"/>		Check drive chain tension		<input checked="" type="checkbox"/>		Ensure PRV for packing tank is valid	
Levelwind:				Certifications:			
<input checked="" type="checkbox"/>		Test override clutch system				Sling condition/ Due on <i>Nov 24</i>	
<input checked="" type="checkbox"/>		Check chains and leadscrew condition and operation				MPI due <i>Nov 24</i>	
<input checked="" type="checkbox"/>		Visual check leadscrew yoke & leadcrew				Visual Test due <i>Nov 24</i>	
<input checked="" type="checkbox"/>		Correct level wind sprocket for tubing					
<input checked="" type="checkbox"/>		Check level wind trolly condition					
<input checked="" type="checkbox"/>		Function test levelwind arm (up/down)					
Please state the equipment readiness							
Ready				Not Ready			
<i>- Unit is ready</i>							
Maintenance type done (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
<i>Fairuddin</i>		<i>Indri</i>		<i>[Signature]</i>		<i>J. M. TAUPIC</i>	

DIMENSION BID

Equipment Maintenance Checklist 1

PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION

Equipment type : Extension Frame

Equipment number : E

Y	N	Checklist
Appearance & Safety Equipment:		
<input checked="" type="checkbox"/>		Ensure unit is clean
<input checked="" type="checkbox"/>		Skid condition - visually check for any damage
<input checked="" type="checkbox"/>		Walkway/Ladders - check for any damage
<input checked="" type="checkbox"/>		Ensure anti slip installed at walkway/ladder
Labelling		
<input checked="" type="checkbox"/>		MGW and SWL in place
<input checked="" type="checkbox"/>		Last annual inspection
Lifting Devices		
<input checked="" type="checkbox"/>		Inspection on shackles and pins, slings and lugs
<input checked="" type="checkbox"/>		MPI on pad eye if necessary
		Mark the inspection date and due date
		All protection caps and ID tags in place.
Corrosion, Dent, Defects in Weld		
<input checked="" type="checkbox"/>		Check for rust in weld, no leaks
Safety Equipment and Certification		
<input checked="" type="checkbox"/>		Visual inspection of all pad eyes and lifting gear
<input checked="" type="checkbox"/>		Safety guards and rail in working condition

Location Mob/Demob : DULANG A

Date : 28/8/24

Y	N	Checklist
Certifications:		
		Sling condition/ Due on <i>Mr Jf</i>
		MPI due <i>Mr Jf</i>
		Visual Test due <i>Mr Jf</i>

Please state the equipment readiness

Ready

Not Ready

- Unit is ready

Maintenance type done (Please state if any spare used)

Preventive Maintenance

Corrective Maintenance

NAME

POSITION

EXAMINER SIGNATURE

VERIFIED BY

Fahruddin

GEO

Lucia

J M. TAUFIQ

DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type : CTU Batch Mixer		✓		✓	DL-A		
Location Mob/Demob : DL-A							
Equipment number : CTU/BMP/D1							
Y	N	Checklist					
Appearance and Safety Equipment:							
✓		Ensure unit appearance good and clean					
✓		Verify that all earth/ground cables are in place, well connected					
✓		Skid condition - visually check for any damage					
✓		Fire extinguisher is present and certified					
Cooling System:							
✓		Coolant level & condition					
✓		Check visible leaks					
✓		Radiator hose & clamp condition					
✓		Perform visual and physical check on radiator fin					
Engine Inspection:							
✓		Check engine oil level (SAE 15W-40) not be milky or too dark					
✓		Check any general leaks on all filter hoses, and connectors.					
✓		Check fan, hub, fanbelt condition/ tension					
✓		Check Battery cable connectors (if applicable)					
✓		Check condition of engine hoses					
✓		Check for rusted part- repair/repaint if required					
✓		Check the crankcase vent system for excessive blow by					
✓		Check engine mounting condition - tight any loose bolt					
Controls / Instrumentation:							
✓		Normal kill tested					
✓		Emergency kill tested					
✓		Oil pressure gauge in good condition					
✓		Tachometer display in good condition					
✓		Throttle control in good condition					
✓		Engine stop cable/button in good condition					
✓		Engine start cable/button in good condition					
Exhaust System:							
✓		Pipework - check for any leak or damage					
✓		Condition/Operation of exhaust flapper					
✓		Condition of exhaust wrap are in place and in good condition					
Transmission, Gearbox:							
✓		Check level Sight glass/dipstick shows in full (SAE 90)					
✓		Check condition of the gearbox breather filter					
Hydraulic System:							
✓		Check Hyd. Hoses/valve/connections undamaged and clean					
✓		Hyd. tank - drain any water					
✓		Check hydraulic oil level (2" from top) (Tellus 46)					
✓		Check hydraulic gauges					
✓		Check condition of fittings & couplings					
Fuel System:							
✓		Check for any water contamination in the fuel filter sight bowl					
✓		Check fuel tank breather cap condition					
✓		Check for leaks on fuel lines, connections, and hoses					
✓		Fuel filter - check condition					
✓		Fill up the diesel tank to 90% (if applicable)					
✓		Drain 1 litre fuel from drain valve					
Please state the equipment readiness							
Ready				Not Ready			
- Unit is ready for next job							
Maintenance type done (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
Fairuddin		GEO		[Signature]		J M. TAUSIQ	

DIMENSION BID

Equipment Maintenance Checklist 1

PRE JOB	LOCATION
<input checked="" type="checkbox"/>	DL-A

ON JOB	LOCATION
<input checked="" type="checkbox"/>	DL-A

POST JOB	LOCATION

Equipment type : Single Pump Unit		
Location Mob/Demob : DL-A		
Equipment number : PG 002		
Y	N	Checklist
Appearance & Safety Equipment:		
<input checked="" type="checkbox"/>		Ensure unit appearance good and clean
<input checked="" type="checkbox"/>		Verify that all earth/ground cables are in place, well connected
<input checked="" type="checkbox"/>		Skid condition - visually check for any damage
<input checked="" type="checkbox"/>		Fire extinguisher is present and certified
Cooling System:		
<input checked="" type="checkbox"/>		Coolant level & condition
<input checked="" type="checkbox"/>		Check visible leaks
<input checked="" type="checkbox"/>		Radiator hose & clamp condition
<input checked="" type="checkbox"/>		Perform visual and physical check on radiator fin
Engine:		
<input checked="" type="checkbox"/>		Check engine oil level (SAE 15W-40) not be milky or too dark
<input checked="" type="checkbox"/>		Check any general leaks on all filter hoses, and connectors.
<input checked="" type="checkbox"/>		Check fan, hub, fanbelt condition/tension
<input checked="" type="checkbox"/>		Check condition of engine hoses
<input checked="" type="checkbox"/>		Check for rusted part- repair/repaint if required
<input checked="" type="checkbox"/>		Check the crankcase vent system for excessive blow by
<input checked="" type="checkbox"/>		Check engine mounting condition - tight any loose bolt
Controls / Instrumentation:		
<input checked="" type="checkbox"/>		Normal kill and emergency kill tested
<input checked="" type="checkbox"/>		Check converter lock-up (if applicable)
<input checked="" type="checkbox"/>		Check all gauges are in good condition and working
<input checked="" type="checkbox"/>		Check (Rate-RPM) and (Pressure-OPS) condition
<input checked="" type="checkbox"/>		Throttle control in good condition
<input checked="" type="checkbox"/>		OPSD tested
Exhaust System:		
<input checked="" type="checkbox"/>		Pipework - check for any leak or damage
<input checked="" type="checkbox"/>		Condition/Operation of exhaust flapper
<input checked="" type="checkbox"/>		Condition of exhaust wrap are in place and in good condition
Transmission, PTO & Drivelines:		
<input checked="" type="checkbox"/>		Right place/dipstick choice in full (SAE 90)
<input checked="" type="checkbox"/>		Start & idle engine (5-Min) recheck oil level
<input checked="" type="checkbox"/>		Listen for excessive noise at PTO
<input checked="" type="checkbox"/>		Condition of transmission hoses & fittings
<input checked="" type="checkbox"/>		Grease U-joint & propeller shaft
Hydraulic System:		
<input checked="" type="checkbox"/>		Check Hyd. Hoses/valve/connections undamaged and clean
<input checked="" type="checkbox"/>		Hyd.tank - drain any water
<input checked="" type="checkbox"/>		Check hydraulic oil level (2" from top) (Tellus 46)
<input checked="" type="checkbox"/>		Check hydraulic gauges
<input checked="" type="checkbox"/>		Check condition of fittings & couplings
Fuel System:		
<input checked="" type="checkbox"/>		Check for any water contamination in the fuel filter sight bowl
<input checked="" type="checkbox"/>		Check fuel tank breather cap condition
<input checked="" type="checkbox"/>		Check for leaks on fuel lines, connections, and hoses
<input checked="" type="checkbox"/>		Fuel filter - check condition
<input checked="" type="checkbox"/>		Fill up the diesel tank to 90%
<input checked="" type="checkbox"/>		Drain 1 litre fuel from drain valve

Running Hours : 1728		
Date : 28/8/24		
Y	N	Checklist
Air System:		
<input checked="" type="checkbox"/>		Check visible leaks
<input checked="" type="checkbox"/>		Gauges in good condition
<input checked="" type="checkbox"/>		Air reservoir/tanks - drain any water until that are clean
<input checked="" type="checkbox"/>		Air hose, connections, piping, valves and actuators condition
<input checked="" type="checkbox"/>		All pneumatic control valve working properly
Air Cleaner:		
<input checked="" type="checkbox"/>		Check the element for water or soot and clean as required
Electronic Recording & Monitoring Devices:		
<input checked="" type="checkbox"/>		Check all sensors condition
<input checked="" type="checkbox"/>		Check pump controls, rate and pressure devices.
<input checked="" type="checkbox"/>		Cables/connectors condition
<input checked="" type="checkbox"/>		Acquisition - check communication with software/hardware (if applicable)
Zone II System:		
<input checked="" type="checkbox"/>		Flame traps - check cleanliness
<input checked="" type="checkbox"/>		Air intake valve (flapper) - check condition
<input checked="" type="checkbox"/>		Spark arrestor - check condition
Power End & Chain Case:		
<input checked="" type="checkbox"/>		Check power end oil level & condition (SAE90)
<input checked="" type="checkbox"/>		Check chaincase oil level / Leaks (SAE40)
<input checked="" type="checkbox"/>		Grease chaincase bearing
<input checked="" type="checkbox"/>		Check hoses conditions for any leak
<input checked="" type="checkbox"/>		Check condition of breather
Fluid End:		
<input checked="" type="checkbox"/>		Check plungers condition. Plungers tight to pony rod.
<input checked="" type="checkbox"/>		Pressure sensor in place
<input checked="" type="checkbox"/>		Check plungers lubrication
<input checked="" type="checkbox"/>		Check lubrication (packing tank oil level)
C-Pump & Piping:		
<input checked="" type="checkbox"/>		Check C-Pump operation and record shut in pressure (>25 psi)
<input checked="" type="checkbox"/>		Grease butterfly valve
<input checked="" type="checkbox"/>		Check piping conditions and remove any dirt
System Pressure:		
		Fuel pressure @ idle speed _____ psi
		Fuel pressure @ 1800 RPM _____ psi
		Oil pressure @ cold start <u>20</u> psi
		Oil pressure @ 180deg.F <u>20</u> psi
Certifications:		
		Sling condition/ Due on <u>Nov 24</u>
		MPI due <u>Nov 24</u>
		Visual Test due <u>Nov 24</u>

Please state the equipment readiness



Ready	Not Ready
- Unit is ready for job	

Maintenance type done (Please state if any spare used)

Preventive Maintenance	Corrective Maintenance

NAME	POSITION	EXAMINER SIGNATURE	VERIFIED BY
Fairuddin	GEO	<i>[Signature]</i>	J M. TAUPA

DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION																																																																																																
		✓		✓	DL-A																																																																																																		
Equipment type : Jacking Frame		Location Mob/Demob : DL-A																																																																																																					
Equipment number : CTU/JF/01		Date : 28/8/24																																																																																																					
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DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	DL-A		
Equipment type : Batch Mixer Tank		Location Mob/Demob : DL-A					
Equipment number : CTG/BMP/DI		Date : 28/8/24					
Y	N	Checklist					
Appearance & Safety Equipment:							
<input checked="" type="checkbox"/>		Ensure unit is clean					
<input checked="" type="checkbox"/>		Skid condition - visually check for any damage					
<input checked="" type="checkbox"/>		Walkway/Ladders - check for any damage					
<input checked="" type="checkbox"/>		Ensure anti slip installed at walkway/ladder					
Labelling							
<input checked="" type="checkbox"/>		MGW and SWL in place					
<input checked="" type="checkbox"/>		Last annual inspection					
Lifting Devices							
<input checked="" type="checkbox"/>		Inspection on shackles and pins, slings and lugs					
<input checked="" type="checkbox"/>		MPI on pad eye if necessary					
<input checked="" type="checkbox"/>		Mark the inspection date and due date					
<input checked="" type="checkbox"/>		Load test is current					
<input checked="" type="checkbox"/>		All protection caps and ID tags in place.					
Corrosion, Dent, Defects in Weld							
<input checked="" type="checkbox"/>		Check for rust in weld, no leaks					
<input checked="" type="checkbox"/>		Check for leakages or any damage at tank					
<input checked="" type="checkbox"/>		Check all piping, manhole covers, valves					
Safety Equipment and Certification							
<input checked="" type="checkbox"/>		Visual inspection of all pad eyes and lifting gear					
<input checked="" type="checkbox"/>		Safety guards and rail in working condition					
Please state the equipment readiness							
Ready				Not Ready			
<i>- Bm Tank is clean and ready for next job</i>							
Maintenance type done (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
Ismuddin		GEO		<i>Ischi</i>		J M. TAURIS	