

<b>Title</b>	Maintenance – Coiled Tubing Equipment					
<b>Target Population</b>	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:

		<b>Description</b>	<b>JFE</b>	<b>FE1</b>	<b>FST</b>	<b>FS1</b>	<b>EOT</b>	<b>EO1</b>	<b>EO2</b>	<b>EO3</b>	<b>GEO</b>
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	FIRDausi A22247	Position	PM

# DIMENSION BID

Equipment Maintenance Checklist 1			PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION																																																																																																												
Equipment type : DSQ4 Side Door Stripper			Location Mob/Demob : DL-A																																																																																																																	
Equipment number : C101508/01			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						
<b>Equipment type</b> : CTU Injector Head HR680 <b>Location Mob/Demob</b> : DL-A <b>Equipment number</b> : CTU/14/101			<b>Running Feet</b> : <b>Date</b> : 28/8/24									
<b>Y</b> <b>N</b> <b>Checklist</b> <b>Appearance &amp; Safety Equipment:</b> <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 <b>Lubrication:</b> <input checked="" type="checkbox"/> Chain tube oil tank level <input checked="" type="checkbox"/> Grease at all grease point <b>Hydraulic System:</b> <input checked="" type="checkbox"/> Check all hydraulic hoses for damage, leaks or wear <input checked="" type="checkbox"/> Fitting & coupling condition <input checked="" type="checkbox"/> Check accumulators for correct precharge: Upper Traction 580 psi Middle Traction 580 psi Lower Traction 380 psi Outside Tension 380 psi <b>Ins:</b> <input checked="" type="checkbox"/> Chains in clean condition <input checked="" type="checkbox"/> Check chain, rollers, bearings, pins & gripper blocks condition <input checked="" type="checkbox"/> Check chain alignment <input checked="" type="checkbox"/> Check for unusual noise when running <b>Chain Tensioner System:</b> <input checked="" type="checkbox"/> Check all sprockets for wear and damage <input checked="" type="checkbox"/> Grease all bearings - drive and idler sprocket <input checked="" type="checkbox"/> Check cylinders for wear and damage <b>Drive Motor &amp; Gear Box:</b> <input checked="" type="checkbox"/> Check gearbox lubricant level <input checked="" type="checkbox"/> Function test drive and brake system <input checked="" type="checkbox"/> Check for any leak or damage <b>Gooseneck:</b> <input checked="" type="checkbox"/> Check gooseneck alignment (prior to stab in) <input checked="" type="checkbox"/> Check gooseneck rollers for damages <input checked="" type="checkbox"/> Check linkages, pins, locking, covers and supports condition			<b>Y</b> <b>N</b> <b>Checklist</b> <b>Recording &amp; Monitoring Devices:</b> <input checked="" type="checkbox"/> Check operation & condition of friction wheel <input checked="" type="checkbox"/> Electronics - check cables/connectors condition <input checked="" type="checkbox"/> Depth counter - check alignment and condition <input checked="" type="checkbox"/> Depth encoder - check condition and function test <input checked="" type="checkbox"/> Wellhead pressure transducer - check condition <input checked="" type="checkbox"/> Secure Load Cell - weight off load cell <b>Certifications:</b> Sling condition/ Due on 11-2004 MPI due 11-2005 Visual Test due 11-2004									
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<b>NAME</b> Fairuddin	<b>POSITION</b> GEO	<b>EXAMINER SIGNATURE</b> 		<b>VERIFIED BY</b>  M. TAUFIQ								

# DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type	: Equipment Transport Basket						
Equipment number	: ETB 02						
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						
<input checked="" type="checkbox"/>	Ensure safety pin available for securing equipment inside ETB						
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"/>	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						
Please state the equipment readiness							
Ready				Not Ready			
Maintenance type done (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME				EXAMINER SIGNATURE	VERIFIED BY		
Fainuddin	GEO			Sudin	J M. TAUFIQ		

# DIMENSION BID

Equipment Maintenance		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Checklist 1		<input checked="" type="checkbox"/>	<del>READY</del>	<input checked="" type="checkbox"/>	DL-A		
Equipment type	: CTU Power Pack						
Location Mob/Demob	: DL-A						
Equipment number	: CTU/PP/01						
<input checked="" type="checkbox"/> <input type="checkbox"/> 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 Battery cable connectors (if applicable)						
<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						
Air Cleaner:							
<input checked="" type="checkbox"/>	Check the element for water or soot and clean as required						
Controls / Instrumentation:							
<input checked="" type="checkbox"/>	Normal kill and emergency kill tested						
<input checked="" type="checkbox"/>	Check all controls condition						
<input checked="" type="checkbox"/>	Check all gauges are in good condition and working						
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						
Gearbox:							
<input checked="" type="checkbox"/>	Check level Sight glass/dipstick shows in full (SAE 90)						
<input checked="" type="checkbox"/>	Check condition of the gearbox breather filter						
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) (Telles 46) <i>Just topup at yard</i>						
<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 50% <i>100% diesel filter</i>						
<input checked="" type="checkbox"/>	Drain 1 litre fuel from drain valve <i>Drain from top, fill up from bottom on site</i>						
Please state the equipment readiness							
Ready				Not Ready			
<i>- Unit is ready for job</i>							
Maintenance type done. (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
Zainuddin		GEO		<i>Indi</i>		<i>J. M. Tamia</i>	

# DIMENSION BID

Equipment Maintenance Checklist 1			PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type	: CTU Control Cabin							
Equipment number	: CTU 100/01							
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"/> Fire extinguisher is present and certified								
Cabin - General:								
<input checked="" type="checkbox"/> Inspect hoses for excessive wear <input checked="" type="checkbox"/> Check all attaching hardware for tightness <input checked="" type="checkbox"/> Check under panels for sign of leaking hoses <input checked="" type="checkbox"/> Check hoses for signs of weeping <input checked="" type="checkbox"/> Inspect cabling and fittings for excessive wear/damage <input checked="" type="checkbox"/> Check horn operation <input checked="" type="checkbox"/> Check internal and external lighting is operational <input checked="" type="checkbox"/> Lighting system all in working condition <input checked="" type="checkbox"/> Windscreen in good condition (No crack or damage) <input checked="" type="checkbox"/> Air conditioner working in good condition <input checked="" type="checkbox"/> Frame locking pins <input checked="" type="checkbox"/> Clean Cabin Interior <input checked="" type="checkbox"/> Secure all drain plug <input checked="" type="checkbox"/> Roof in good condition <i>1000+ rubber need to put rubber</i> <input checked="" type="checkbox"/> Electronics & electrical system in good condition <input checked="" type="checkbox"/> Computers and monitor in working condition/secured								
<input type="checkbox"/> Condition/Operation of rain cap <input type="checkbox"/> Condition of exhaust wrap								
Controls:								
<input checked="" type="checkbox"/> Function test emergency kill <input checked="" type="checkbox"/> Function test engine shut-down <input checked="" type="checkbox"/> Manual stripper control in working condition <input checked="" type="checkbox"/> Manual BOP control in working condition <input checked="" type="checkbox"/> Chain tension and traction in working condition <input checked="" type="checkbox"/> Injector chains lube valve in working condition <input checked="" type="checkbox"/> Injector Head in working condition <input checked="" type="checkbox"/> Levelwind override clutch and raise/lower condition <input checked="" type="checkbox"/> Reel drive in working condition <input checked="" type="checkbox"/> Reel brake in working condition								
Please state the equipment readiness								
Ready					Not Ready			
<p>- Client is ready but when rain came, 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		
Zainuddin	GEO				<i>Abdi</i>	<i>J</i> M. TAURIA		

# DIMENSION BID

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Equipment type : Single BOP Shear/Seal			Location Mob/Demob : Durang A					
Equipment number : CT/15BOP/101			Date : 28/8/24					
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 canvas						
<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"/>		Blind/Shear ram to 5000psi for 10 min						
<input checked="" type="checkbox"/>		Body to 5000psi for 10 min						
X-Overs:								
<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		Ludi.		J M-TAUFIQ	

# DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type	: Dual Combi BOP				DL+A		
Equipment number	: CW/BOP/101						
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 canvas <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-Overs:							
<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		
Fairuzuddin	GEO	<i>Ladin</i>			<i>J</i>		
M-TAUFIQ							

# DIMENSION BID

Equipment Maintenance Checklist 1			PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type : DID2000 Reel Frame								
Equipment number : CTU								
Y	N	Checklist						
Appearance & Safety Equipment:								
<input checked="" type="checkbox"/>		Ensure unit is clean						
<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:								
<input checked="" type="checkbox"/>		Manifold complete and secured						
<input checked="" type="checkbox"/>		Grease plug valves and chiksans						
<input checked="" type="checkbox"/>		Swivel bolts in place						
<input checked="" type="checkbox"/>		Pressure test as required						
Reel Drive System:								
<input checked="" type="checkbox"/>		Check drive chains condition and lubricate accordingly						
<input checked="" type="checkbox"/>		Check chain case oil level						
<input checked="" type="checkbox"/>		Grease main bearing accordingly						
<input checked="" type="checkbox"/>		Check hydraulic hoses and connections for leaks/damages						
Reel Brake System:								
<input checked="" type="checkbox"/>		Check for any damages						
<input checked="" type="checkbox"/>		Test reel brake and drive system						
<input checked="" type="checkbox"/>		Check drive chain tension						
Levelwind:								
<input checked="" type="checkbox"/>		Test override clutch system						
<input checked="" type="checkbox"/>		Check chains and leadscrew condition and operation						
<input checked="" type="checkbox"/>		Visual check leadscrew yoke & leadcrew						
<input checked="" type="checkbox"/>		Correct level wind sprocket for tubing						
<input checked="" type="checkbox"/>		Check level wind trolley condition						
<input checked="" type="checkbox"/>		Function test levelwind arm (up/down)						
Please state the equipment readiness								
<input checked="" type="checkbox"/> Ready <i>- Unit is ready</i>					<input type="checkbox"/> Not Ready			
Maintenance type done. (Please state if any spare used)								
Preventive Maintenance					Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY		
<i>Fainuddin</i>		<i>Abdel</i>				<i>J</i> <i>M. TAURIQ</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					
<input checked="" type="checkbox"/>		Mark the inspection date and due date					
<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					
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			
- Client is ready							
Maintenance type done. (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
		GEO					M. TAURIQ

# DIMENSION BID

Equipment Maintenance			PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Checklist 1			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	DL-A		
Equipment type	: CTU Batch Mixer							
Location Mob/ Demob :	: DL-A							
Equipment number :	: CTU/BM1/01							
Y	N	Checklist						
Appearance and 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 Inspection:								
<input checked="" type="checkbox"/>	Check engine oil level(SAE 15w-40) not be milty 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 Battery cable connectors (if applicable)							
<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 tested							
<input checked="" type="checkbox"/>	Emergency kill tested							
<input checked="" type="checkbox"/>	Oil pressure gauge in good condition							
<input checked="" type="checkbox"/>	Tachometer display in good condition							
<input checked="" type="checkbox"/>	Throttle control in good condition							
<input checked="" type="checkbox"/>	Engine stop cable/button in good condition							
<input checked="" type="checkbox"/>	Engine start cable/button in good condition							
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, Gearbox:								
<input checked="" type="checkbox"/>	Check level Sight glass/dipstick shows in full (SAE 90)							
<input checked="" type="checkbox"/>	Check condition of the gearbox breather filter							
Hydraulic System:								
<input checked="" type="checkbox"/>	Check Hyd. Hoses/valve/connections undamage and clean							
<input checked="" type="checkbox"/>	Hyd. tank - drain any water							
<input checked="" type="checkbox"/>	Check hydraulic oil level (2' from top) (Telus 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% (If applicable)							
<input checked="" type="checkbox"/>	Drain 1 litre fuel from drain valve							
Please state the equipment readiness								
Ready				Not Ready				
<p><i>- Unit is ready for next job</i></p>								
Maintenance type done (Please state if any spare used)								
Preventive Maintenance				Corrective Maintenance				
NAME		POSITION		EXAMINER SIGNATURE			VERIFIED BY	
<i>Fairuddin</i>		GEO		<i>Asli</i>			<i>J</i> M.TAUSIQ	

# DIMENSION BID

Equipment Maintenance Checklist 1			PRE JOB	LOCATION	ON JOB	LOCATION	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 - tighten 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"/>		Sight glass/dipstick shows in full (SAE 90)						
<input checked="" type="checkbox"/>		Start & idle engine (3-5 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) (Teflon 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						
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	
Fainudin			GEO		Fainudin		J. M. TAUPA	

# DIMENSION BID

Equipment Maintenance Checklist 1		PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
Equipment type	: Jacking Frame				✓	DL-A	
Equipment number	: CTO/JF/01						
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"/> 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 <input checked="" type="checkbox"/> Check all piping, flanges, 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>- OJ in good condition</i>							
Maintenance type done. (Please state if any spare used)							
Preventive Maintenance				Corrective Maintenance			
NAME		POSITION		EXAMINER SIGNATURE		VERIFIED BY	
Fairuddin		GEO		<i>Lulu</i>		<i>J</i> 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				
<b>Equipment type :</b> Batch Mixer Tank <b>Equipment number :</b> CTS/BMP/101			<b>Location Mob/Demob :</b> DL-A <b>Date :</b> 28/10/24							
<b>Y</b> <b>N</b> <b>Checklist</b> <b>Appearance &amp; Safety Equipment:</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Ensure unit is clean</li> <li><input checked="" type="checkbox"/> Skid condition - visually check for any damage</li> <li><input checked="" type="checkbox"/> Walkway/Ladders - check for any damage</li> <li><input checked="" type="checkbox"/> Ensure anti slip installed at walkway/ladder</li> </ul> <b>Labelling</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MGW and SWL in place</li> <li><input checked="" type="checkbox"/> Last annual inspection</li> </ul> <b>Lifting Devices</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Inspection on shackles and pins, slings and lugs</li> <li><input checked="" type="checkbox"/> MPI on pad eye if necessary</li> <li><input checked="" type="checkbox"/> Mark the inspection date and due date</li> <li><input checked="" type="checkbox"/> Load test is current</li> <li><input checked="" type="checkbox"/> All protection caps and ID tags in place.</li> </ul> <b>Corrosion, Dent, Defects in Weld</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Check for rust in welds/no leaks</li> <li><input checked="" type="checkbox"/> Check for leakages or any damage at tank</li> <li><input checked="" type="checkbox"/> Check all piping, manhole covers, valves</li> </ul> <b>Safety Equipment and Certifications</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Visual inspection of all pad eyes and lifting gear</li> <li><input checked="" type="checkbox"/> Safety guards and rail in working condition</li> </ul>			<b>C-Pump:</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> C-Pump packing - check condition</li> <li><input checked="" type="checkbox"/> Check operation and shut-in pressure</li> <li><input checked="" type="checkbox"/> 4x5 C-Pump &gt; 45 psi</li> <li><input checked="" type="checkbox"/> 5x6 C-Pump &gt; 55 psi</li> <li><input checked="" type="checkbox"/> Perform circulation test</li> </ul> <b>Mixing tank &amp; piping:</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Check condition of mixing tank &amp; paddle</li> <li><input checked="" type="checkbox"/> Check condition of suction &amp; discharge piping</li> <li><input checked="" type="checkbox"/> Check condition of B/F Valve &amp; grease</li> <li><input checked="" type="checkbox"/> Check condition of safety railing w/comp. lock pin</li> <li><input checked="" type="checkbox"/> Mixing head + circulation jet - no cement build up</li> </ul> <b>Paddles / Agitator:</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Check oil level (SAE 90)</li> <li><input checked="" type="checkbox"/> Grease bearing</li> <li><input checked="" type="checkbox"/> Check agitator rotation</li> </ul> <b>Certifications:</b> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sling condition/ Due on Nov 24</li> <li><input checked="" type="checkbox"/> MPI due Nov 25</li> <li><input checked="" type="checkbox"/> Visual Test due Nov 24</li> </ul>							
<b>Please state the equipment readiness</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; text-align: center;"> <b>Ready</b>                      ~ Bin Tank is clean and ready for next job                 </td> <td style="width: 50%; padding: 5px; text-align: center;"> <b>Not Ready</b> </td> </tr> </table>									<b>Ready</b> ~ Bin Tank is clean and ready for next job	<b>Not Ready</b>
<b>Ready</b> ~ Bin Tank is clean and ready for next job	<b>Not Ready</b>									
<b>Maintenance type done. (Please state if any spare used)</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; text-align: center;"> <b>Preventive Maintenance</b> </td> <td style="width: 50%; padding: 5px; text-align: center;"> <b>Corrective Maintenance</b> </td> </tr> </table>									<b>Preventive Maintenance</b>	<b>Corrective Maintenance</b>
<b>Preventive Maintenance</b>	<b>Corrective Maintenance</b>									
<b>NAME</b> Faruddin	<b>POSITION</b> GEO	<b>EXAMINER SIGNATURE</b> 		<b>VERIFIED BY</b>  M. TAURIQ						