



# ***IMPROVING TIME WRITING BASED SERVICE DELIVERY***

**Continuous Improvement Initiative**

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# Agenda

- ❖ Overview of Initiative
  - ❖ Objective
  - ❖ Scope
  - ❖ Engagement/Survey Outcome
- ❖ Deliverables
  - ❖ Offshore readiness Checklist
  - ❖ Work execution efficiency – Activity tracking and reporting
- ❖ Recommendation
- ❖ Q & A



# OEM Time Based Service Delivery Improvement Offshore

## Objective

Improve time-writing based services offshore such as but not limited to: OEM and FSR call-out for corrective/preventive maintenance including inspection work, Brownfield Project Execution

## Scope

1. **Contract:** Improve terms and condition in contract especially daily rate contract for OEM.
2. **OEM/Vendor Mob:** Develop smart vendor/OEM readiness check tool which serves as input to ST-IAP
3. **OEM Equipment Mob:** Implement end-to-end tracking tool for effective mobilization and demobilization of OEM equipment
4. **Activity tracking offshore:** Agree work flow and process to achieve improved offshore work/service delivery. This involves:
  1. Develop metrics for activity measurement and breaking down activity into finite element
  2. Develop smart time based service delivery monitoring tool

## Deliverables

1. Smart OEM Mobilization readiness checklist.
2. Smart OEM activity tracking and reporting
3. Hand over report

## Major Issues

1. Poor Work Preparation
  - a) No proper and/or early handshake between activity owner and host offshore
  - b) No clarity ((Insufficient information) around scope to be executed offshore
  - c) No smart metrics for activity progress measurement offshore
2. No Vendor Equipment Tracker
  - a) Vendor offshore and equipment not on board
  - b) Activity owner does not keep everyone in the loop when Mobilizing and Demobilizing equipment
  - c) Activity owner not having end-to-end eye on OEM equipment
  - d) Unavailability of tools, materials needed for offshore work execution when required
3. Unrealistic wrench time on daily rate contract type for OEM
  - a) Vendor working effectively for 8hours offshore while the contract terms and condition stipulates 12 hours day rate
  - b) Paying the same rate (offshore work hours rate) for vendors when commuting in and out of the offshore
4. Operations team not involved early in work preparation/scheduling

## 1. Schedule:

<b>Week 1:</b>	Review of existing system and process
<b>Week 3:</b>	Develop work flow and start tool development
<b>Week 7:</b>	Final User acceptance test
<b>Week 10:</b>	Implementation and deployment
<b>Week 12:</b>	Operationalization of the tool and hand over

*Holistic Logistic management for personnel and tools*

# Offshore readiness checklist

Select Activity Start date		14/06/2017	Overall		87.88%	33.33%	
S/N	Items	Description	Readiness Status A	Readiness Status B			
1	Pre-requisite Documents						
1a	Tools & Equipment list	Is required list of tools & equipment prepared, reviewed and signed off by relevant parties?	Yes	Yes			
		Is required equipment/tools arranged/available?	Yes				
1b	Contract/PO for Offshore Installation	Is contract for offshore work in place? Provide Reff/evidence.	NA				
		Has PO been raised/issued for offshore work? Provide evidence.		No			
2	HSE						
2a	HSE General requirements	TBOSIET/BOSIET / Medical fitness to work /Offshore Safety Passport check done for required personnel? Copies of certificates sighted/submitted ?	Yes	Yes			
		HSE Cover for execution schedule (day/night shift?)	Yes				
		HSE induction for all personnel arranged/done?	Yes	Yes			
		Will the activities offshore require SIMOPS?					
		If yes to the above, have the SIMOPS requirements been communicated and agreed with Operations?	Yes	No			
		Special permits required - DPR/FMEnv/NNRA? If yes, has application been made for the permit?	Yes	No			
3	Scaffold Requirement	Scaffold requirement identified/discussed & agreed with offshore? Requested?	Yes	NA			
		Scaffold materials available offshore or arranged?	Yes	NA			
		Scaffold erected?	Yes				
4	Isolation Requirements						
	Mechanical	Isolation required? identified?	Yes	Yes			
		Isolation requirements discussed and agreed with Operations team onshore and offshore?	Yes	No			
	Electrical	Isolation required? identified?	Yes	No			
		Isolation requirements discussed and agreed with Operations team onshore and offshore?	Yes	No			
	PACO	Isolation required? identified?	Yes	No			
		Isolation requirements discussed and agreed with Operations team onshore and offshore?	Yes	No			
5	Laydown Requirement	Laydown area requirement identified?/agreed with offshore management?	Yes	No			
6	Special Offshore facilities/utility requirements	Would the FPSO onboard cranes be used? If yes, are the cranes or any of the cranes suitable and fit for the lift? Has this been discussed and agreed with Operations?	Yes	No			
		Would heavy lift vessel/derrick crane be required?	Yes	Yes			
		Has the heavy lift vessel/derrick crane been arranged?	No	Yes			
		Is regular personnel transfer required? If, yes have separate JHAs and procedures been agreed with Operations?	NA	Yes			
		Will Plant utilities (plant air, water, additional lighting etc) be required, and defined if yes?	NA	Yes			
		Are these utility requirements within the limits of existing facilities capacities or will external provisions be required? If external provision will be required, has sourcing arrangement for this been firmed up and documented?	NA	NA			
		Are these utility requirements included in the project briefing pack and communicated and agreed with offshore management?					

2nd Check-Point

# Work execution efficiency – Offshore progress reporting

		26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
ACT ID	Activity Name									
<b>Offshore Activity</b>										
Electrical										
A2462980	Electrical: Install 2Nos 30m 450X 300 mm Cable Trays	60%	70%	70%	80%	100%	100%	100%	100%	100%
A2462990	Electrical: Install 6Nos Cable tray supports	60%	70%	70%	80%	80%	80%	80%	80%	100%
A2463000	Electrical: Cable Pulling - 250m 3x25 Sq.mm LV cable	60%	70%	70%	100%	100%	100%	100%	100%	100%
A2525540	Install 3nos fluorescent and 1nos flood light			10%	10%	10%	10%	50%	50%	70%
A2468490	Electrical: Install 2nos Junction Boxes	60%	70%	70%	80%	80%	80%	90%	90%	92%
A2525550	Install 1nos VFD	45%	50%	55%	57%	57%	57%	62%	62%	65%
A2468500	Electrical: Installation of 3nos Motor Starter	45%	50%	55%	57%	57%	57%	62%	62%	65%
A2525560	Install 4nos EMS and Anti-condensation heater	50%	50%	50%	50%	100%	100%	100%	100%	100%
A2463010	Electrical: Glanding & Termination of all cables to installed equipment			50%	50%	50%	100%	100%	100%	100%
Instrument										
A2468510	Instrumentation: Install Junction Boxes									
A2463030	Instrumentation: Cable tray supports									
A2463020	Instrumentation: Install Cable Trays									
A2468520	Instrumentation: Installation of transmitters									
A2468530	Instrumentation: Installation of level guages									
A2503020	Instrumentation: Cable pulling									
A2463050	Instrumentation: Glanding & Termination									



