

JOB TITLE / AIM: Jsa for the installation of spool	
JSA DATE: 7/3/2007	JSA NO./ REVISION: 00
SUPERVISOR/ JSA LEADER: A	SCRIBE:
PARTICIPANTS:	
LIST ASSOCIATED PROCEDURES/WORK INSTRUCTIONS OR TEMPORARY WIs:	

Attach copies of any relevant documentation/ drawings.

Part 2: Job Safety Analysis

- Job Steps:
- 1-Mobilization of workers, equipment, tools and material.
 - 2-Unloading and stacking of spool and scaffolding material for TIP 3
 - 3-Securing of horizontal live line and erection of working platform
 - 4-Unsecuring of cable ladder (Base) from 4 locations using cherry picker cable ladder
 - 5-Lifting of cable ladder using crane and placing of horizontal scaffold (Pipe used for securing) pipe under cable ladder
 - 6-Lifting of pipe spool and positioning
 - 7-Demobilization

ALTERNATIVES:

Instead of placing the extended horizontal scaffold pipes used for securing, wooden blocks can also be placed under the cable ladder on to the Scaffold structure as per required size of structure.

ATTACHMENTS:

Lifting, rigging Plan, Securing of live lines sketch

Now undertake the JSA and record in the table below. Use prompts on JSA Prompt Sheet and Hazard Checklist

Part 3: Contingency Plans.

- Note: All the work to be done under operations NFHWP
 - Incase of emergency *Contact CCR*
 - Incase of spillage of chemicals washing showers are located in the plant area indications to the personnel's working in the plant is necessary (Green light indicates the location of showers)
 - The work front shall have radio.
 - By Pass all the emergency shut downs

- Fire manual call point
- Work front shall have first aid box

Part 4: Review. *After the job has been completed, JSA leader should note: any hazards, which were identified in the original JSA? Any practices that need to be captured in the OMS? List action items, changes, and transfer any changes to the Change Management system.*

File: 10.30

JSA No:		JOB TITLE:	
Step No	Describe Job Step (Copy from part 2 of form)	Potential Hazards (Use Hazard Checklist)	Hazard Controls
1	Mobilization of workers, equipment, tools and material.	<p>Unsafe /Unsuitable equipment /Machinery brought to site</p> <p>Improper mobilization of crane</p> <p>Unsecured load</p> <p>SIMOPS</p> <p>Persons not trained competent or experienced to undertake the task</p> <p>Unauthorized access</p> <p>Working in hazardous area</p>	<p>All equipment should be properly tagged and inspected by DEL E&P prior to mobilization on site.</p> <p>Crane checklist , all certifications shall be attached with permit.</p> <p>While mobilizing crane with in plant boom shall be kept down at all time.</p> <p>Ensure that the load shall be properly secured with belts on to the Trailer and inspected by DEL HSE prior to the</p> <p>While mobilizing the crane with in plant CCR shall be informed.</p> <p>Ensure that crane crew should be certified and riggers should also be competent</p> <p>All persons are skilled and know about the hazard in the job area.</p> <p>Ensure all persons nominated are BHPB inducted .</p> <p>Tool box meeting to go through all aspects of JSA prior to start.</p> <p>All persons shall wear RED ID,s visible all times</p> <p>Continuous gas testing shall be done at all times</p> <p>Safety observer shall be in place</p>

JSA No:		JOB TITLE:	
Step No	Describe Job Step (Copy from part 2 of form)	Potential Hazards (Use Hazard Checklist)	Hazard Controls
2	Unloading and stacking of spool and scaffolding material for TIP 301	Untrained MEWP operators Improper rigging activity	Trained person shall operate MEWP Banks person shall be provided. Proper planning shall be done while unloading of material to its designated location . Follow rigging lifting plan Double tag lines shall be used while lifting of spool Crane outer riggers shall be fully extended ,levelled and
3	Securing of horizontal live line and erection of working platform	Unbarricated area Improper planning Improper securing Improper access	Proper barrication shall be done while lifting in progress No unauthorized persons are allowed except riggers and rigging and rigging supervisor. All the lifting rigging activity to be done as per lifting rigging plan. Working platform shall be erected under 12" dia pipe north south Landing platform shall be erected west south Every 1 meter vertical scaffolding pipe shall be erected top of beam cross. Bracing with 45 degrees 6Meters horizontal pipe plan brace shall be erected on the top of pipe line which will lift the cable ladder and provide support and clearance of about 300-325 mm above the support <u>For reference : Attached sketch</u>
4	Unscrewing of cable ladder (Base) from four locations using cherry picker	Hurdles in work area Improper mobilization Hand injury	Prior to mobilization of cherry picker hanging horizontal beam shall be removed Banks man shall be provided slow movement of MEWP shall be maintained with in live plant. Hand gloves shall be worn while unscrewing
5	Lifting of cable ladder using crane and placing of horizontal scaffold (Pipe used for securing) pipe under cable ladder	Improper work plan Improper supervision Improper rigging equipment	Slings shall be placed across the cable ladder and at the mean time scaffold pipe used for securing shall be placed under the cable ladder Four scaffold pipes shall be placed under the cable ladder Rigging supervisor shall be aware of the lift plan Work to be done with full concentration. Ensure that proper sling shall be used All the rigging equipment shall be certified and certification shall be attached with the permit.

JSA No:		JOB TITLE:	
Step No	Describe Job Step (Copy from part 2 of form)	Potential Hazards (Use Hazard Checklist)	Hazard Controls
6	Lifting of pipe spool and portioning	Touching live lines Obstructions in the work area	All below live lines shall be secured by horizontal scaffold pipes and placed under the rack of cable ladder All the work to be approved by BHPB operations and shall be according to plan
7	Demobilization	Leaving spool unsecured	Ensure that spool shall be chained or tied off with rope along with structure prior to demobilization.