



**Title:** Preventive Maintenance of Lifting and Tilting Unit

<b>SOP No.:</b>		<b>Revision No.:</b>	00
<b>Effective Date:</b>		<b>Supersedes No.</b>	Nil
<b>Review Date:</b>		<b>Page No.</b>	1 of 3

**1.0 OBJECTIVE**

1.1 To describe a procedure for preventive maintenance of lifting & tilting unit.

**2.0 SCOPE**

2.1 This procedure applies to the Engineering department.

**3.0 RESPONSIBILITY**

3.1 Engineering

**4.0 ACCOUNTABILITY**

4.1 Plant Head

**5.0 REFERENCE (S)**

5.1 In-house.

**6.0 PROCEDURE**

6.1 Procedure for mechanical work:

- 6.1.1 Switch off the power supply of the machine and put “under maintenance” label.
- 6.1.2 Clean the hydraulic tank from outside and tighten the connecting pipe.
- 6.1.3 Check the oil level in the tank and top up if required by servo 220 grade oil.
- 6.1.4 Clean the side covers plates.
- 6.1.5 Check the movement of the base bearing, if required grease.
- 6.1.6 Check the movement of tilting of bowl.
- 6.1.7 Clean the guide rails & rollers using lint free cloth & re-lubricate them using grease. Also lubricate the roller pins for smooth rotation
- 6.1.8 Clean the chain / wire rope using lint free cloth using grease or oil.

6.2 Procedure for electrical work:

- 6.2.1 Clean the electrical panel board by air blower.
- 6.2.2 Clean & tighten the contactor connection.
- 6.2.3 Check the NO/NC element. If damaged, replace the same.
- 6.2.4 Check the operation of limit switch.

6.3 Procedure for trial run:

- 6.3.1 Switch on the power supply.
- 6.3.2 Check the operation of the lifter referring the SOP.



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<b>Review Date:</b>		<b>Page No.</b>	2 of 3

6.3.3 Check & record the observations as per Annexure-I.

6.4 Procedure for handover of the machines.

6.4.1 Remove “under maintenance” label & affix the preventive maintenance status tag and inform the concerned department.

6.5 Frequency of preventive maintenance is once in two month.

## 7.0 HISTORY

7.1 Details are given below.

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE

## 8.0 ABBREVIATIONS: The abbreviations used in the SOP are:

8.1 SOP - Standard Operating Procedure

8.2 No. - Number

8.3 QA - Quality Assurance



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<b>Review Date:</b>		<b>Page No.</b>	3 of 3

## ANNEXURE-I

### PREVENTIVE MAINTENANCE CHECK LIST FOR LIFTING & TILTING UNIT

Equipment ID No. \_\_\_\_\_

Date: \_\_\_\_\_

S.No.	Particulars	Done/Not Done	Remarks
1	Switch off the power supply of the machine and put "under maintenance" label		
2	Check the movement of the base bearing, if required grease		
2	Check the oil level in the tank and top up if required by servo 220 grade oil.		
3	Clean the guide rails & rollers using lint free cloth & re-lubricate them using grease. Also lubricate the roller pins for smooth rotation.		
4	Clean the chain / wire rope using cotton waste and re lubricate it using grease or oil.		
5	Check and Tighten the contactor Connection.		
6	Check the operation of limit switch.		

\_\_\_\_\_  
Done by  
(Sign & date)

\_\_\_\_\_  
Checked by  
(Sign & date)