**Pump Maintenance Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Date: |  | Technician name: |  |
| Time: |  | **Item No:** |  |
| Manufacturer: |  | **Drawing No:** |  |
| Report No: |  | **Area:** |  |

|  |  |  |
| --- | --- | --- |
| **Maintenance check points** | **Done** | **Comment** |
| Check electrical condition of insulation on power cables and on all phases of the motor |[ ]   |
| Check for any loose or faulty electrical connections within the control panel |[ ]   |
| Measure resistance between stator windings (in Ohms). |[ ]   |
| Check voltage supply between all phases of the electrical control panel. |[ ]   |
| Check amperage draw on all phases of the motor |[ ]   |
| Check condition and operation of the motor thermal protection control system |[ ]   |
| Check condition of upper and lower shaft seals |[ ]   |
| Drain oil from oil housing and replace with new oil. |[ ]   |
| Check for worn or loose impeller or propeller. |[ ]   |
| Check impeller wear rings (rotating & stationary) |[ ]   |
| Check for Cavitation ( The bubble crack on the metal parts will sounds like rock passing through) |[ ]   |
| Check for any unusual noise in the upper and lower bearings. |[ ]   |
| Clean, reset and check operation of the level control system |[ ]   |
| Check for physical damage of power and control cables. |[ ]   |
| Check for correct shaft rotation. |[ ]   |
| Check the packing, to avoid leakage |[ ]   |
| Reinstall the pump / mixer and check operation |[ ]   |
| Check shaft misalignment  |  |  |
| Test the pump / mixer operating cycle, under load (if liquid level in the station permits). |[ ]   |
| Check for erosion (Removal of suspended materials and reduce by applying appropriate protective films |[ ]   |
| Perform shut off head test on pumps to establish pressure being produced |[ ]   |
| Check operation of valves and associated equipment. |[ ]   |

**Remark:**

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| --- | --- | --- | --- |
| Performed by: |  | Signature: |  |