

**Technical Specifications & Other Allied Requirements**

<b><u>Sl No.</u></b>	<b><u>Description of items</u></b>	<b><u>Quantity</u></b>
<b><u>PUR/100/ERT/PK/E/2020-21</u></b>		
<b><u>1</u></b>	Supply & Installation of Telescopic Boom Crane based Hydraulic Grab Bucket with Electric Hoist	1 Set

<b>Item</b>	<b>Specification</b>
Fixed Boom Length	: 2000mm (Minimum)
Telescopic Boom Movement	: Upto 1800mm (Using hydraulic cylinder) (Min. 2000mm & Max. 3800mm; Stroke-1800mm)
Boom Lifting Movement	: Upto 1500mm (Using hydraulic cylinder)
Swivelling	: Manual with rotation of 180°
Height Of Column	: 1600mm from Base Frame
Lifting Hoist	: Lifting Capacity 1.0ton Lifting Height: 12.0 mtr Motor: 3ph induction motor with operating pendant with automatic braking
Maximum Payload	: The maximum payload at the extreme end is 150kg
Base Frame	: MOC: MS Channel (100×50×5mm) & MS Angle (50×50×6); IS2062
Electrical Panel	: Electrical panel with requisite On-Off- Overload push bottom switches and Overload Relay for supplying power to every motors
Grab Bucket	: Volume: 25-30 ltr Material Lifting Capacity: 40-50kg MOC: AISI304 Grab Dimension(Closed): 350mm×350mm Grab Dimension (Open): 700mm×350mm Grab Height (Open): 700mm (max) Grab Height (Closed): 850mm (max)
Waste Bucket	: Volume: 150ltr Tilting Angle: 90degree Minimum Plate Thickness: 5.0mm Operating Mechanism: Hydraulic
Hydraulic Power Pack	: Steel tank of 100 Litre capacity Pressures up to 100 bar Flow rate 40 LPM Suction filter 90 micron & Return filter 25 micron Submerged Pump with Motor: 3phase, 50 hz induction motor with Protection IP55 Operation of Cylinders: joystick type valves
No. Of Hydraulic Cylinder	: 3 Nos. (2 nos. for Boom Movement and 1 No for tilting bucket movement)

N.B. Please refer to the representation model attached as annexure-I

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11/08/2020

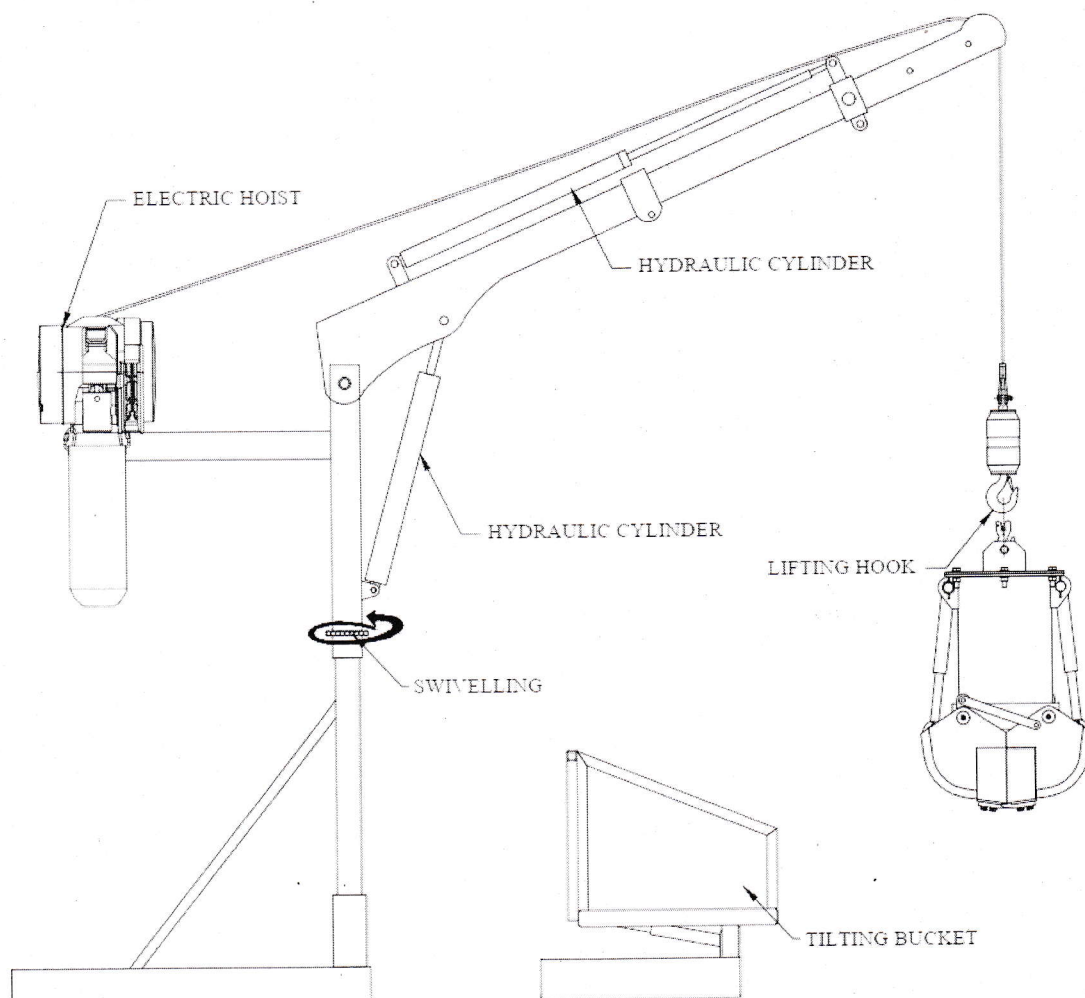


Fig-1: Representation Model of the Total System

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11/08/2020

1. **Installation, Commissioning And Training**

The ordered goods are to be installed within 15 days of receipt of goods at this Institute. Installation should be carried out only by expert engineers of Supplier / Manufacturer at Free of Cost basis. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institutes, Scientist / Engineers / Technicians.

2. **Warranty**

Comprehensive on-site warranty for a period of one year must be provided to be effective from the date of successful Installation, Commissioning and Training and final acceptance of the items / equipment at the user's laboratory / Institute.

Panthe Das  
11/08/2020