

Technical Specifications & Other Allied Requirements

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

Item	Specification
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

Partha Das
17/08/2020

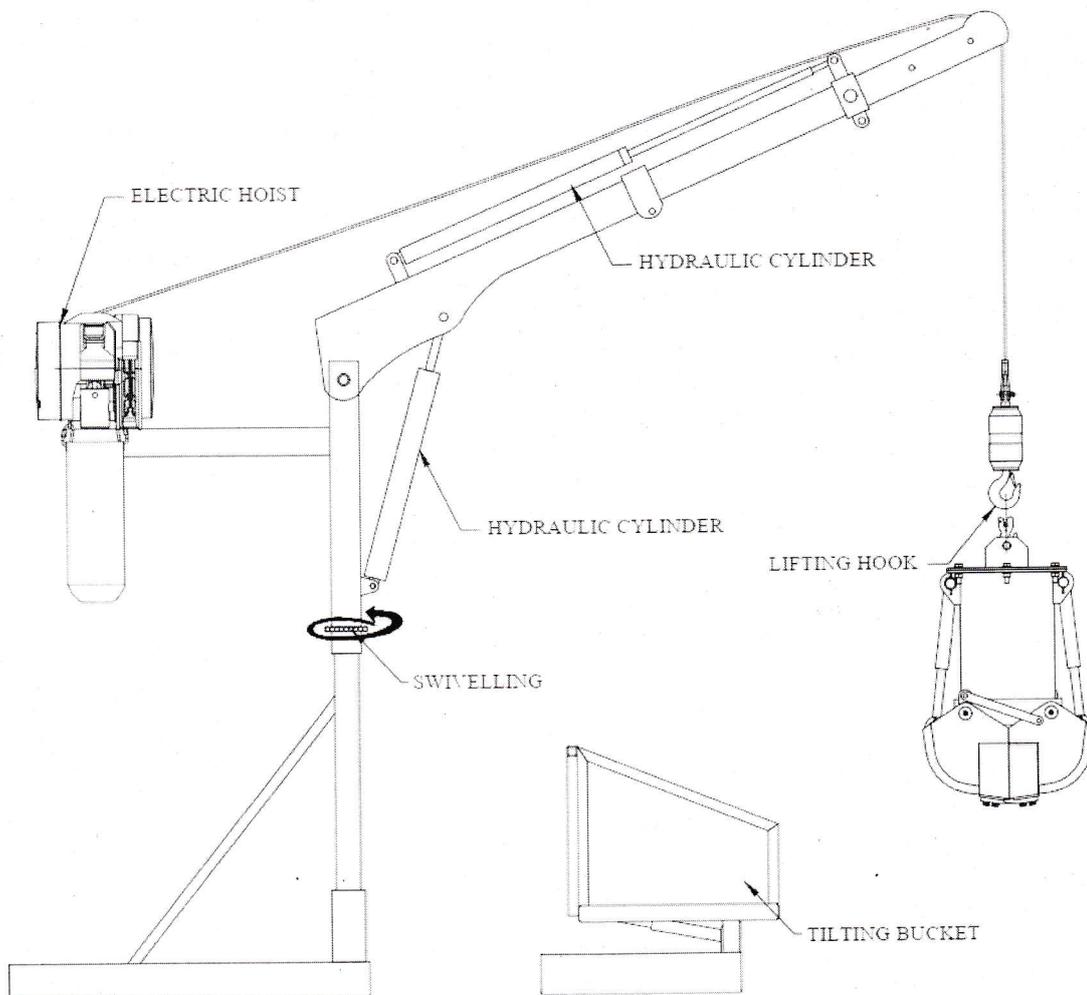


Fig-1: Representation Model of the Total System

Patra Das
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 Dan
11/08/2020