



ISLAMABAD ELECTRIC SUPPLY COMPANY

TECHNICAL SPECIFICATIONS 03 TON CRANE MOUNTED TRUCK

SPECIFICATION OF CRANE

Lifting capacity, 3 tons at minimum 2.5 meter horizontal radius from the base of the crane. Flap hook of at least 5-ton capacity shall be provided at the end of the last telescopic boom.

CRANE MOUNTING:

Mid-ship mounting (Between Chassis cab and cargo body)

TRUCK/CRANE STABILITY:

Crane must be 100% stable in 360 Degree rotation in its full extended boom lengths carrying the permissible weight as per manufacturer recommendations and design. Stability chart complete in all aspects shall be provided by the vendor.

BOOM:

Fully Powered Articulated Type Knuckle / Telescopic Boom of Hexagonal Sections capable to be fully folded/retracted when in parking position. Hydraulic outreach of minimum 10.5 M vertical and minimum 8 M horizontal from the ground level when the crane is fitted onto the truck. The telescopic extensions shall be driven by independent cylinder(s) equipped with return oil utilization in order to increase their speed and efficiency.

WINCH:

1.5 Ton (2 Line Operation 1.5 Ton X 2 = 3.0 Ton) hydraulic winch Fitted on Boom having Rope Length of 52 meter and Rope Diameter of 8 mm with limiting stop by means of Electronic Overload Protection System and end layer limiting switch including hour counter for winch. Cable specs to be attached.

Hook Block for Winch 1.5 Ton for two-line operation (1.5 Ton X 2 = 3.0 Ton).

HYDRAULIC SYSTEM:

Should be protected by a High Pressure Filter, a Return Filter and an Oil Cooler.

SWING:

Hydraulic motor driven slewing range 400 degree and net slewing torque of at least 11.8 kNm. The Slewing System shall be with rack, pinion and two cylinders.

CRANE BASE & BOOM

To be constructed of High Tensile Steel.

OUT RIGGERS:

Hydraulic Long Outriggers on both sides, including Hydraulic Jacks for vertical lift and lateral extension of 4 M min. All outrigger cylinders shall be equipped with safety load holding non-return



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valves. All four functions shall be controlled individually by an independent 4 function valve block situated with the crane controls. . (Total 04 Nos. Outriggers, 02 on each side).

CONTROLS:

All the controls for the crane shall be mounted at the crane base in horizontal position making it easier for the operator to operate on both sides of the crane. An hour meter with indication of servicing intervals should be fitted close to the crane control for easy monitoring of maintenance and working hours.

SAFETY EQUIPMENT

- Lifting and extension cylinder as well as the slewing cylinders should be equipped with load holding valves/safety to protect contraction in case of hose failure.
- Digital Hour Counter with indication of working hours.
- Return Filter with Hydraulic Tank.
- Electronic overload protection with emergency cut-off and capacity display along with diagnostic system must also be installed on the crane.
- Stability calculations, axle load and pay load calculation, installation drawing and stability schematic of package (after mounting crane on chassis) are to be provided.

REAR CARGO BODY:

Three Side opening Rear Cargo Body fabricated from 4.5 mm M.S Sheet with chequered plate flooring of specific size, designing and grade of Steel in order to maintain the weight of the Cargo Body in such a way that it provides safe and suitable counter weight for the Crane.

CRANE ACCESSORIES:

- Min 5-ton load hook with roller bearing and shackle.
- Owner's manual, repair manual & spare parts book (original) (n Urdu) one set with each unit.
- Oil cooler with a suitable cooling power for Hydraulic oil.

SPECIFICATION OF HYDRAULIC TRUCKS

Brand new latest model, right hand drive, haulage 4x2 Truck, fitted with hydraulic crane between truck body and driver's cabin, cargo steel body, side collapsible/removable, floor covered with checkered plates, fitted with double wheel at rear suitable for cross country.

ENGINE: -

Four strokes, in line water cooled, direct injection turbo charged diesel engine, net fly wheel horse power 130 -140 HP min., and torque minimum 350 Nm at 1500-1800 RPM. Fitted with



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direct/electronic injection system, emission standard minimum Euro-II, forced lubrication, large radiator suitable for tropical and high dusty conditions.

GVW: -
9,000 KG Max.

LENGTH BODY: -
14 to 18 Feet (cargo deck)

STEERING: -
Hydraulic

CLUTCH: -
Dry disc type with hydraulic control.

TRANSMISSION: -
Constant mesh / synchronized with minimum 5 forward and one reverse speed, single control, shift lever floor mounted.

TYRE SIZE: -
Compatible to carry total load, double wheel at rear suitable for cross-country.

BRAKES: -
Mechanical Expanded Type. Exhaust Brake.

SUSPENSION: -
Semi-elliptical Steel Leaf Spring, Hydraulic Double Acting.

ELECTRICAL: -
12-24 Volts system.

ACCESSORIES: -
All standard accessories which would invariably include the following: -

1. Safety belts for cabin crew.
2. Front protection guard for light/radiator.
3. Spare wheel with holder.
4. Front hook shock less.
5. Inside/outside rear-view mirror.
6. Fire extinguisher to be provided inside the driver's cabin.
7. Rear hook 3500 Kg (trailer breaking & elect. Plug sockets).
8. Removable polyester trap.
9. 02 Nos. Extra revolving HD Lights on top of the cabin.



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SPARE/MANUAL/TOOL KITS: -

Workshop repair manual (in Urdu & English), operation/maintenance manual (in English) and parts catalogue (English) 01 No. each with each unit shall be provided at the time of delivery.

All control and indicators be marked in English.

Standard tool kit for each truck. (List to be provided).

WARRANTY:

Two years comprehensive warranty (for both truck and crane) from the date of delivery at consignee store.

TERMS & CONDITIONS:

- i. Provide detail technical specifications, brochures of the manufacturer in (English or Urdu) original along with the bid.
- ii. The intending bidder and its proposed manufacturer of the crane should have a minimum five (05) years manufacturing experience and three (03) years successful operational experience in the manufacturing of crane and assembling and mounting of crane on the truck chassis respectively.
- iii. Availability of spares after sales service in IESCO region i.e. Rawalpindi, Islamabad, Jhelum, Attock, Chakwal, has to be ensured. Firm shall attach address of their workshop/authorize workshop, telephone/fax number with the offer. They must have qualified service engineers/technicians on their company's payroll.
- iv. Compliance sheet of technical specs must be provided.
- v. The bidder must provide specifications of each item in schedule of requirements
- vi. All the bidders are advised to comply strictly with tender specifications. Any deviation (if required technically) will be allowed only upon submission of proper technical justification, subject to satisfaction of the evaluation committee.
- vii. Authorization letter from the manufacturer of the crane and the truck chassis for participation in this tender must be provided.
- viii. Local truck manufacturers will be preferred.
- ix. Equipment shall be in final shape and ready to use form.

TRAINING:

Three days training will be provided to operators/technicians by representative of manufacturer at IESCO location/supplier location free of cost.



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TESTING / INSPECTION: -

Concerned vendor is bound to arrange inspection two stage inspection for IESCO Inspection Committee at Factory premises for vehicle/chassis before installation of the Crane as well as final inspection including stability test before delivery to IESCO.

DELIVERY PERIOD:

Six months after issuance of PO.

