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Specification for 3T EOT crane for Slip House

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Capacity	3 metric Tonne	
Туре	Double Girder Overhung with 4 wheels, crane with motorised cross travel long travel and hoist as per specification below with control panel	
Application	Indoor Loading & Unloading	
Area Classification	Safe	
Specification & Class	M5 as per IS:3177-1999	

## Speed

Cross Travel Speed	15/5mts/min	,
Long Travel Speed	25/6.25mts/min	
Main Hoist Speed	Main 4-5mts/min, Micro 0.4 - 0.5mts/min	

## **Dimension**

	Approx 14 mts (span to match existing girder & rails, supplier to measure
Crane Span	the existing dimensions and suitably manufacture)
Lift Height	8.5mts

## Mechanical & Structural

Cilalifical & Structural	
Gear Boxes	Bidders to provide details of gear box construction
	Single flanged taper thread wheels machined out of EN-8 forging,
Cross Travel & Long Travel Wheels	hardended to and mounted on antifriction bearing. (wheel hardness to
	be lower than that of rail hardness)
Sheaves	Cast Steel as per IS:1030 Gr2
Buffers	Rubber buffers shall be provided for long travel & CT motions
Platform	2 short platform on drive side to be provided
	Bidders to provide Total weight of the crane, LT wheel load & LT wheel
LT wheels & Total weight	base

## Electrical

Power Supply	415 Volts AC, 3 phase 50 Hz
Control Voltage	230V 1 phase ac (alternatively 110V 1 pha ac)
Motors	Squirrel cage induction motor with IP-55 protection, Class F insulation, Crane Duty 4 pole. Bidders to specify the ratings
Cable Type	PVC armoured cables with solid copper conductor
Cross Travel cabling	Through PVC Flexibile trailing cable arrangement running on 'T' track
Variable Frequency Drive	Optional for Cross travel motor & Long travel motor. For hoist only geared train (2 separate motors for macro & micro)to be offered.
DSL system	Bidders to provide details

# Hook, Drum, Brake & Rope

Single Shank 'C' type, Hook shall be provided with safety latch as per
IS3835
Fibre Core, 6 x 36 construction wire rope as per IS 2266. Bidder to specify
technical specification of rope offered
Length of the drum shall be designed such that, while in fully hoisted
state, at least 4 grooves are still open. Similarly, when fully lowered, the
drum shall have atleast 4 grooves rope wrapped in.
Bidders to provide details of braking system
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Operation	Through independent movable pendent push button station Alternatively Hand held radio remote to be quoted as optional item
[Colliection	Due to existitance of another crane on the same girder, anti collission system based on limit switch is to be provided

### Others

End Carraiges	Fabricated out of rolled steel chanels
Lubrication	Group lubrication with hand grease gun
	The complete crane structure shall be applied with 2 coats red oxide
Painting	followed by two coats of synthetic enamel paint. Colour : YELLOW.
	Bidders to quote with RAL number.

#### **Preferred Makes**

Motors	NGEF, Bharat Bijlee, Siemens, Kirloskar, ABB,CGL	
Wire Rope	Usha Martin Black	
Brake	Pethe, EMCO	
Gear Boxes	Elcon, Shanti, Premium	
Bearings	SKF, FAG, NTN	
Limit Switches	Bhartia Cutler hammer, Jai Balaji	
Hook	EEK, FTC, Smriti Forge	

## General Requirements

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Warranty	12 months from the date of successful commissioning
Service	Bidders to have service backup facility in Bangalore.Bidders to conferm of providing service during emergency within 24 Hrs.
References	List of clients wherein similar or higher capacity crane supplied in past 2 years to be provided along with technical bid
Catalouge / Technical Brouschre	To be provided along with technical bid
Company Profile	Brief company profile along with the facilities and product range shall be provided along with technical bid. The financial statement of the company for last 3 years shall be provided.
Erection & Commissioning	Scope of supplier. If quoted seperately, to be indicated in the technical bid.

**Qualification Criteria** 

1. Only OEM or the authorized dealer/chanel partners are to quote. 2. They should have supplied a minimum of 5 similar type & capacity (or higher capacity) cranes in the last five years. 3. Bidders has to produce successful working certificate of a similar type **Qualification Criteria** & capacity (or higher capacity) for a period of atleast 5 years 4. Spares and service backup shall be available in Bangalore

ಎನ್.ಪಿ. ಮೋನಪ್ಪ, ಹಿ.ಅಭಿಯಂತರರು/ವರ್ಸ್ಗ್ ಇಂಜಿ. एन.पी. मोनप्पाँ, वरि अभियंता/वर्वस इंजी. N.P. MONAPPA, Sr. Engr./Works Engineering

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