



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES SHEIKHPURA,
PATNA – 14 – (BIHAR)**


SHORT QUOTATION NOTICENO.: -Engg./02/CW/MW/2021-22


Sealed item rate quotations for following works are hereby invited from reputed service agency who have experience for: **Supplying of Diesel Engine with Pump set for Dewatering of Water-logged Area in Rainy Season for Hospital and Residential Campus at IGIMS, Patna**

e-mail: -pd.akhileshwar@gmail.com

Memo No 77/ EC/2021

Dated 21/05/2021

Last Date for submission of Hard Copy of rate quotation in the office of Superintending Engineer (Civil), IGIMS, Patna-14.		Dated – 31/05/2021 .till 3.00 PM			
Date &Time of opening the received quotation		Dated:-01/06/2021 at 3.30 PM			
Name of work: <u>Supplying of Diesel Engine with Pump set for Dewatering of Water-logged Area in Rainy Season in Hospital and Residential Campus at IGIMS, Patna</u>					
Sl No	Item Descriptions	Unit	Qty.	Rate (In figure/words)	Amount (In Rs)
1.	<p>Supplying of Diesel Engine Self/ Handle Start 22 HPcapacity with SELF PRIMING SEWAGE / DEWATERING PUMPS size 150mm Suction and Delivery 150 mm mounted on Mobile Trolley as per below detail Specification including 10.00 mtr Length 150mm Suction pipe and 60.00 mtr. Delivery pipe 150 mm, Foot valve and Other required fittings/associates as per requirement of Engine, Pump and Trolley etc all Complete in Working Stage. (Trolley Mounting as per FIG-01) Make- Eicher/Kirloskar or Its Equivalent.</p>  <p align="center">Fig-01</p>				
	<p>(A) Engine Specification</p> <p>Engine Type - DI Aspiration - Natural Number of stroke Nos 4 Number of Cylinders Nos 1 Bore X Stroke mm x mm 115x150 Displacement cc 1557 Compression ratio - 17.8 : 1 Rated Speed Rpm 1500 Rated Power as per IS 10000 -Continuous Rating Rated Power as per IS 10000 hp 22 Direction of rotation (View from Flywheel Side)- Anti clockwise High idle speed Rpm 1560 ± 10 Low idle speed Rpm 480+20 Governing as per BS 5514 - Mechanical - Class A2 Cooling medium Air / Water / oil Air Air cleaner choke indicator Electrical / Mechanical No Air Cleaner type - Oil bath type Air cleaner oil capacity Liters 1.1 Total Lubrication oil capacity(Sump + Filter) Liters 6</p>	No.	01

	<p>Lubrication filter Type / No. of filters Paper element Lubrication oil consumption % of fuel consumption <0.5 Lubrication oil type API 15W40-CF4 Lubricating oil & oil filter change period Hrs 250 Starter motor rating Volt / KW N.A Alternator rating for battery charging Volt / Amperes N.A. Engine fuel- HSD Fuel Filter Type Double bowl Paper Elements Fuel Tank Capacity Liters 30 oil pressure switch Yes / No No Liner temp. Sensor Yes / No Yes (sensor and gauge combined) Engine Size l x b x h mm x mm x mm 795x864x1230 Weight kg 330</p>				
	<p>(B) Pump Specification SELF PRIMING SEWAGE / DEWATERING PUMPS Bare Shaft Pump Set, SP BARE SHAFT/MOTOR COUPLED Pump Size: Suction 150 mm, Delivery 150 mm Head Range :Up to 44 metresUpto Discharge Range :Upto 80 lps Power Rating : 0.75 - 18.7 kW (1 - 25 HP) Motor Coupled* Voltage Range : 415±10% Class of Insulation : F Class (Motor coupled only) Class Protection : IP 55 Impeller : Cast Iron / Stainless Steel/ Bronze, Dia 296 mm Motor Body : - Cast Body Delivery Casing : Cast Iron Shaft : Carbon Steel / Stainless Steel Shaft Sleeve : Stainless Steel Sealing : Gland Packed / Mechanical Sea Solid Handling Size (mm):- 40 mm Rated Speed (RPM):- 1450 Suction Pipe 150 mm dia = 10 mtr. Delivery pipe 150 mmdia = 60 mtr.</p> <p>(C) PVC Suction Hose Pipe(Heavy Duty) Inner Dia:- 150 mm, Wall Thickness= 8 mm (± 0.5/± 1.0) Working Pressure:-(Kg/cm2) @ 30°C Bursting Pressure:-Kg/cm2 @ 30°C Weight Kg/Mtr.- 5.67/mtr. Including Pipe Clip 5 Nos and Foot Valve 2 Nos, Jali-2 Nos.</p> <p>(D)PVC Delivery pipe 150 mmdia = 60 mtr.Heavy Duty 60 Meter HDPE Laminated Woven Lay Flat Tube (Lapeta Pipe) Hose Pipe. Thikness 0.3 mm, dia- 150 mm weight not less than 16 kg for 60 mtr length.</p>				
02	<p>Supplying of Diesel Engine Self and Handle Start 12 HPcapacity with SELF PRIMING SEWAGE / DEWATERING PUMPS size 150mm Suction and Delivery 100 mm mounted on Mobile Trolley as per below detail Specification including 10.00 mtr Length 100 mm Suction pipe and 60.00 mtr. Delivery pipe 100 mm , Foot valve and Other required fittings/associates as per requirement of Engine , Pump and Trolley etc all Complete in Working Stage. (Trolley Mounting as per FIG-02)</p> <p>Make- Eicher/Kirloskar or Its Equivalent.</p>  <p>Fig-02</p>	No.	01
	<p>(A) Engine Specification Technical Specification Engine Type - DI Aspiration - Natural Number of stroke Nos 4 Number of Cylinders Nos 1 Bore X Stroke mm x mm 100 x 125 Displacement cc981 Compression ratio - 17:01 Rated Speed Rpm 1500 Rated Power as per IS 10000 - Continuous Rating</p> <p>Rated Power as per IS 10000 hp 12</p>				

<p>Direction of rotation (View from Flywheel Side) -Anti clockwise High idle speed Rpm 1560 ± 10 Low idle speed Rpm 950 ± 50 Governing as per BS 5514 - Mechanical - Class A2 Cooling medium Air / Water / oil Air Air cleaner choke indicator Electrical / Mechanical No Air Cleaner type - Oil bath type Air cleaner oil capacity Liters 0.45 Total Lubrication oil capacity(Sump + Filter) Liters 5 Lubrication filter Type / No. of filters Spin-on / Single Lubrication oil consumption % of fuel consumption <0.5 Lubrication oil type API 15W40-CF7 Lubricating oil & oil filter change period Hrs 250 Starter motor rating Volt / KW N.A. Alternator rating for battery charging Volt / Amperes N.A. Engine fuel - HSD Fuel Filter Type Single bowl Paper Elements Fuel Tank Capacity Liters 12 oil pressure switch Yes / No Yes Liner temp. Sensor Yes / No Yes Engine Size l x b x h mm x mm x mm 634x751x1046 Weight kg240</p>				
<p><u>(B) Pump Specification</u> SELF PRIMING SEWAGE / DEWATERING PUMPS Bare Shaft Pump Set, SP BARE SHAFT/MOTOR COUPLED Pump Size: Suction 100 mm, Delivery 100 mm Head Range :Upto 44 metresUpto Discharge Range :Upto 80 lps Power Rating : 0.75 – 9.3 kW (1 – 12.5 HP) Motor Coupled* Voltage Range : 415±10% Class of Insulation : F Class (Motor coupled only) Class Protection : IP 55 Impeller : Cast Iron / Stainless Steel/ Bronze, Dia 292 mm Motor Body : - Cast Body Delivery Casing : Cast Iron Shaft : Carbon Steel / Stainless Steel Shaft Sleeve : Stainless Steel Sealing : Gland Packed / Mechanical Sea Solid Handling Size (mm):- 23 mm Rated Speed (RPM):- 1450 Suction Pipe 100 mm dia = 10 mtr. Delivery pipe 100 mmdia = 60 mtr. <u>(C.)PVC Suction Hose Pipe(Heavy Duty)</u> Inner Dia:- 100 mm, Wall Thickness= 6 mm (± 0.5/± 1.0) Working Pressure:-(Kg/cm2) @ 30°C Bursting Pressure:-Kg/cm2 @ 30°C Weight Kg/Mtr.- 5.67/mtr. Including Pipe Clip 5 Nos and Foot Valve 2 Nos, Jali-2 Nos. <u>(D) PVC Delivery pipe 100 mmdia = 60 mtr.Heavy Duty</u> 60 Meter HDPE Laminated Woven Lay Flat Tube (Lapeta Pipe) Hose Pipe. Thikness 0.3 mm, dia- 100 mm weight not less than 12 kg for 60 mtr length.</p>				

The Details of Quotation Can be Viewed/ Downloaded on Institute web site. www.igims.org

Note:- Every Quoted Rate must be quotted by bidder/agency including all complete work as per specification(A,B,C&D) of each itemand taxes such as transportation ,taxes ,GST, contractor profit and installation etc.

Obtained quotations will be opened on scheduled date and time as above in the office of undersigned in presence of the quotations or their representative.

Sd/-

Contractor/ Quotationer

**Superintending Engineer
IGIMS, Patna**