

Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 11:00:00
Bid Opening Date/Time	21-07-2020 11:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	Eastern Railway
Total Quantity	1
Item Category	dewatering pumps
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Dewatering Pumps (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
CONSTRUCTIONAL	Make of Pump	-	*
	Casing	Granded Cast Iron	*
	Impeller	Cast Iron of Grade FG200 of IS210	Cast Iron of Grade FG200 of IS210, Stainless Steel of Grade 04 Cr13 of Is 6603, Stainless Steel of Grade 12 Cr13 of Is 6603, Stainless Steel of Grade 20 Cr13 of Is 6603
	Casing and Impeller Wearing Ring If provided otherwise put NA	Cast Iron of Grade FG200 of IS210	Cast Iron of Grade FG200 of IS210, Bronze of Grade LT82 of Is 318, Brass, NA
	Shaft Type	Chrome Steel	Chrome Steel, Stainless Steel
	Gland Packing Type	Asbestors	*
	Blade Material	Aluminium	Aluminium, Stainless Steel
	Sleeve	Brass	Brass, Bronze, Stainless steel
	Bracket	Others	Granded Cast Iron, Stainless steel, Others
	Suction Flange	Others	Granded Cast Iron, Stainless steel, Others
	Net Positive Suction Head (NPSH)	1	*
	Volute Casing	Granded Cast Iron	*
	Gland Packing set	Threaded Graphite Cotton	*
	One number suitable size suction strainer and Non Return Valve to be supplied with each pump	Yes	*
	Number of Stages	1	Any applicable numeric value
	Dimension of Pump Set (L x B x H)(mm)	-	*
	Weight of Pump Set	22	*
	Minimum Submerge	20	*
	Delivery Flange	Granded Cast Iron	*
	Material of Trolley	MS fabricated	*
	Suction and Delivery	-	*

Pipe Dimensions (mm x mm) (mm x mm)		
The engine shall be Vertical, inline, diesel engine capable of continuous operation and must be equipped with 12 volt starter and alternator, control panel, wiring harness for panel fuel pipes and suitable battery	Yes	*
12 V starting system complete with starter motor, charging alternator and Cutout	Yes	*
Engine Make	-	*
Number of Cylinder	1	1, 2, 3, 4
Engine Capacity	1.5	Any applicable numeric value
Power input to pump at Duty Point (Kilowatt)	1.5	*
Diesel engine be closed coupled and mounted on a base plate robust	Yes	*
Material of Base Plate on which Engine is Mounted	Mild Steel	*
Make of Engine Control panel	Others	*
Engine Control Panel with Following Items i Engine START switch ii Engine oil Pressure meter iii Engine Temperature meter iv Ampere Meter v Emergency Engine Stop Switch Engine oil Pressure meter Vi Engine Hour Meter Vii Fuel Indication meter Viii RPM Meter	Yes	*
Safety controls to shutdown the engine in the event of low lub oil pressure or high cylinder head temperature in case of air cooled engines	Yes	*
Exhaust silencer of	Yes	*

	Residential type application		
	Rotation: clock wise while facing the flywheel end	Yes	*
	Fuel Tank Capacity for min 24 hours continous running at full load	3	*
	Temperature Rise	35	*
	Standard set of tools consisting of set of 3 spanners ,one screw driver ,one standard plier and one nose plier of appropriate engine size shall be provided to the consignee along with , free of cost for each of Pump Set	yes	*
	Supply of Auto prime, horizontal, end suction, centrifugal type pumping unit capable handling floating material/soft solids like wooden pieces , muddy water, etc	yes	*
GENERIC	Dewatering Pump set	DEWATERING PUMPS Or ENGINE MONOSET PUMPS generally in compliance to IS 11501 : 1986 (REAFFIRMED 2016) Complete unit including pump & engine duly coupled along with auto prime system, fuel tank etc shall be mounted on a two wheeled trolley for easy transportability,The trolley shall be equipped with Leaf Springs for Suspension, Support for Rear end and Towing Bar, Parking Breaks etc and The trolley must have minimum ground clearance of 300 mm, below leaf spring	*
	Type of pump	Back Pull Out	*

PERFORMANCE	Model Number of Pump	-	*
	Service/Duty	Continuous	*
	Location	Outdoor	*
	Fuel supply	Fuel Pump by Gravity Feed through Tank	*
	Starting	Hand Start	Hand Start, Battery Start, Both
	Capacity (Rate of Flow) (m³/hr)	50	50, 100, 150, 200, 250, 300, 600, 900
	Total Head (min) Corrsponding to Capacity and Speed (metres)	10	*
	Speed in RPM (rpm)	3600	*
	Pump Efficiency at Duty point Corrsponding to Capacity and Speed (water delivered / Pump Input) (%)	90	*
	Lub Oil Consumption (g/k Wh) : (g/k Wh)	20	*
	All rotating parts be dynamically balanced for longer bearing life and vibration free smooth and silent operation	yes	*
	The pump shall be capable of developing required head at rated capacity for continuous outdoor operation External conditions like Rain, Snow and humidity should not affect pumping operation	yes	*
	The shut off head of the pump shall not less than 12% of head at rated capacity for 3 cusec and 5 cusec pumps having 10 mtrs As duly point head	yes	*
	The pump should be capable of starting without external priming and should be capable of operation	yes	*

	with least human intervention		
	The pump must have non-overloading characteristics and the prime mover ie engine shall not get overloaded in the entire range of operation	yes	*
CERTIFICATION	ISI marked	No	Yes, No
	CM/L No and date	-	*
	Availability of Type Test Report for conformity IS as per IS:10,001latest/IS 1117 0latest/IS:7347latest forEngines,to IS:11501 latest and IS:9137 latest for pumps and other parameters to specification from any ILAC/NABL accredited/Central Govt LAB	yes	*
	Test cetificate No and Date	-	*
	Name and address of the Lab	-	*
	Test report and certifications to be furnished to the buyer on demand	yes	*
	Warranty (Years)	1	1, 2, 3, 4, 5

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Moses Nag	711204,Eastern Railway Liluah	1	30

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods
2. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 7 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---