

Scope of supply: - “BOREWELL SUBMERSIBLE PUMPS REQUIRED FOR WATER SUPPLY” as described under: -

S. No.	Material Code	Description of Material with Specification / Part No. / Make, etc.	Unit	Quantity
1	323600196	15 HP/11.2 KW CAPACITY BOREWELL SUBMERSIBLE PUMP WITH MOTOR 3 PHASE, 440V, 50Hz WITH 3 MTRS CABLE (6 sq. mm. 3 Core, 1100V, IS-654)	NUMBER	2
2	323600198	7.5 HP/ 5.2 KW CAPACITY BOREWELL SUBMERSIBLE PUMP WITH MOTOR 3 PHASE, 440V, 50Hz WITH 3 MTRS CABLE(6 sq. mm. 3 Core, 1100V, IS-654	NUMBER	2

Note: - Item description in BOQ will be referred from the above table under scope of supply.

Pre-Qualification Criteria:-

The bidder should be manufacturer or authorized dealer or supplier of submersible pumps.

1. In case of manufacturer: - To provide/ submit manufacturing certificate of submersible pumps along with techno commercial part-1.
2. In case of authorized dealer: - To provide valid authorization dealership certificate & to submit at least one PO and Invoice copy for supply of submersible pumps to any organization during last 7 years should be submitted along with techno commercial part-1. In case of supplier:- To provide GST registration certificate & to submit at least one PO and Invoice copy for supply of submersible pump to any organization during last 7 years should be submitted along with techno commercial part-1. In case of supplier:- To provide GST registration certificate & to submit at least one PO and Invoice copy for supply of submersible pump to any organization during last 7 years should be submitted along with techno commercial part-1.

Scanned copy of all required documents (Original) as mentioned above has to be submitted along with Techno commercial bid Part-1 on line through GeM portal.

TECHNICAL SPECIFICATIONS

BOREWELL SUBMERSIBLE PUMP

S.NO.	PARTICULAR	Specification
1	TYPE OF PUMP	BOREWELL SUBMERSIBLE PUMP
2	RATED OUTPUT OF MOTOR IN HP / KW	1) 15 HP / 11.2 kW 2) 7.5 HP / 5.2 kW
3	TYPE OF LUBRICATION	WATER LUBRICATED
4	PARTICULAR OF PUMP SET ON DUTY POINT	
A	DISCHARGE IN M ³ / HR	14 - 18 cum/hr(for Item code : 323600196) 9 - 12 cum/ hr(for item code : 323600198)
B	HEAD IN MTR	150 m(for Item code : 323600196) 100 m(for item code : 323600198)
C	OUTER DIAMETER	< = 150 mm
D	DISCHARGE DIA IN MM	50 (WITH FLANGE END)
5	OPERATING CONDITIONS	
A	LIQUID	HARD WATER
B	MAXIMUM OPERATING TEMPERATURE	35 DEGREE
6	MATERIAL OF CONSTRUCTION	
A	IMPELLAR	STAINLESS STEEL
B	DIFFUSER	STAINLESS STEEL/CAST IRON
C	DISFFUSER CASING	STAINLESS STEEL/CAST IRON
D	SHAFT	STAINLESS STEEL
E	MOTOR BODY	STAINLESS STEEL/CAST IRON
F	STATOR BODY-	STAINLESS STEEL/CAST IRON
7	FEATURES- MOTORS	
A	VOLTAGE SHOULD BE 440 V WITH +- 10% VARIATION.	
8	Motor must have copper winding.	
9	submersible pumpset should be suitable for star delta starter	
10	The bidder should provide the manufacturer's provided technical details of their offered pump and motor along with supply that must include the following details:	
A	Type, designation of the pump and submersible motor.	
B	Details of the pump i.e Min. borewell dia, No. of stages, OD of bowl, discharge, total head, speed, overall efficiency, min. submergence, etc	
C	Details of the motor i.e. Rating, type, details of power supply, no. of poles of motor, max current at rated voltage and frequency, etc	
11	The bidder should also provide the performance curves of the pump. A) Discharge vs head curve, B) Discharge vs overall efficiency, C) Discharge vs current	
12	<p>A name plate of corrosion-resistant material shall be affixed on the pumpset with the technical details like:</p> <p>a) Manufacturer's name or trade-mark, if any;</p> <p>b) Model;</p> <p>c) Serial No.;</p> <p>d) Number of stages;</p> <p>e) Bore size, Min;</p> <p>f) Head, at nominal duty point;</p> <p>g) Discharge, at nominal duty point;</p> <p>h) Overall efficiency;</p> <p>j) Motor rating (kW);</p> <p>k) Rated speed (rpm);</p> <p>m) Maximum current (amp);</p> <p>n) Rated voltage (V) with variation;</p> <p>p) Rated frequency (Hz);</p> <p>q) Connection star/delta;</p> <p>r) Type of duty (whether continuous or not);</p> <p>s) Delivery size; etc</p>	
13	The submersible pumpsets may also be marked with BIS Standard Mark and valid certificate of the same may be provided.	