



Multi Stage Bore Hole type Submersible Pumpset (PBS)



Suitable for Handling of:



Smooth, Simple & Cost Effective



Our Roots

The Pullen began in 1978 with our beloved, Mr. Fakirbhai Patel. Pullen is synonymous with engineering excellence, reliability and closeness to customers. Pullen having a wide range of products to suit your requirement. We manufacture wide variety in Polder Pumps, Bore Hole Submersible Pumps & Horizontal Mono Submersible pumps. The company reputation, consumer goodwill and loyalty is strengthened by a service package, which includes personal training, spare parts supply, installation and operation of specialized equipment, expert maintenance, repairs and up-to date technical advice.

Upgradation

To keep pace with changing times since September 2021, "Pullen" brand pumps are now acquired by M/s. Aqua Machineries Pvt. Ltd & benefits tremendously from a much Ultra Modern Plant & Latest Technology.

- Approx. **15,000m² area** & manufacturing capabilities at **urban area**.
- Connected Load with Captive DG Sets enables testing up to **1250kVA**, Transformer **415V, 550V, 690V, 3300V & 6600V** Large VFDs upto **1250 kVA**.
- Manufacturing facilities with Plant machinery of 8m max CNC, 4m chuck dia VTL, Heavy Duty Lathe upto 8m Between Centre, Ultra-Sensitive Dynamic Balancing Machine, Laser Aided Machine, Fully Air-conditioner, Dust & Moisture Free Bearing & Seal department, Fully Air-conditioner Dust & Humidity free Winding Room, Heavy Duty, Dual Vacuum Pressure Resin Impregnation Plant for VPI of Motor.
- For quality work, Fully Air conditioned Quality measurement "Vishwakarma Mandir" at **Metrology department** Ultra Sophisticated, 3D CMM (*Coordinate measuring machine*).
- 2 no. of test bed with separate **60 Nos.** of test pipe lines for Pump discharge nozzle capacity upto **2500mm**. Pumps upto 5,000 m³/hr. discharge capacity can be tested.
- **16 Nos.** of EoT upto **25 MT** for handling of material in plant.

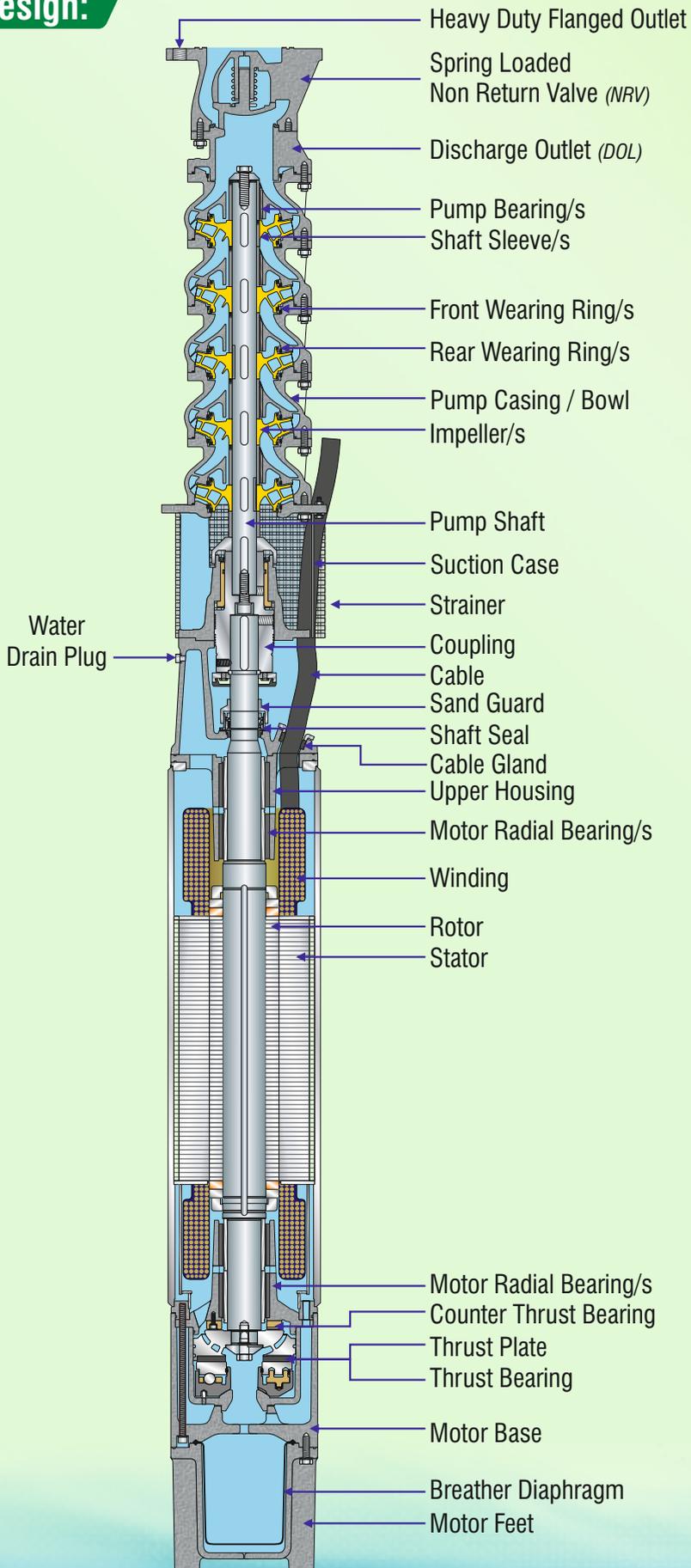
Materials of Construction

Component	Material		
Pump Casing (Bowl) / NRV / Suction Case	CI FG 260	CF 8 (SS-304)	CF 8M (SS-316)
Impeller	Bronze, LTB-2 GR./SS, CA 15	CF 8 (SS 304)	CF 8M (SS-316)
Shaft	SS 410		
Sealing	Oil Seal / Mechanical Seal		
Rotor	Copper Bar		
Motor Body	MS	SS	SS
Bearing Bush	Bronze, LTB-4 GR. / Carbon		
Fasteners	SS / CS	SS (A2_SS 304)	SS (A4_SS 316)

**Also Available in different materials for Sea Water applications -
Phosphorus Bronze • Aluminum Bronze • Standard Bronze • Nickel Aluminum Bronze.**



Design:



Applications:

- Dewatering in Under Ground Coal / Lignite mines.
- Sea Water, Chemical Industries.
- Agriculture.
- Industrial Water Supply.
- Municipal Water Supply.
- Water Level Control & Drawn-down.
- Handling of Clean / Raw Water.
- Sprinklers.

Specifications:

- **Flow** ≥ 150 IGPM to 4500 IGPM \leq .
- **Head** upto 450 mtrs.
- **DN size** 100mm ($4''$) to 400mm ($16''$).
- **Motor Capacity** $\geq 37\text{ kW}$ to 1250 kW \leq .
- **Bore Hole Dia.** $V-8''$ to $V-28''$.
- **Maximum Liquid Temperature** 10°C to 35°C .
- Totally Enclosed Squirrel Cage, Wet type, Water Cooled, Water filled Submersible Motor with IP 68 Protection
- **Class 'Y'** Insulation IC4W1W0.
- **Voltages:** 3 Phases, 415V / 550V / 3300V / 6600V , 50Hz / 60Hz , 1500 RPM / 3000 RPM (*synchronous*).
- Continuously Rated S1 Duty.

Features:

- Easy to install without pump house.
- Easy to handle.
- No suction limitations.
- No possibility of theft.



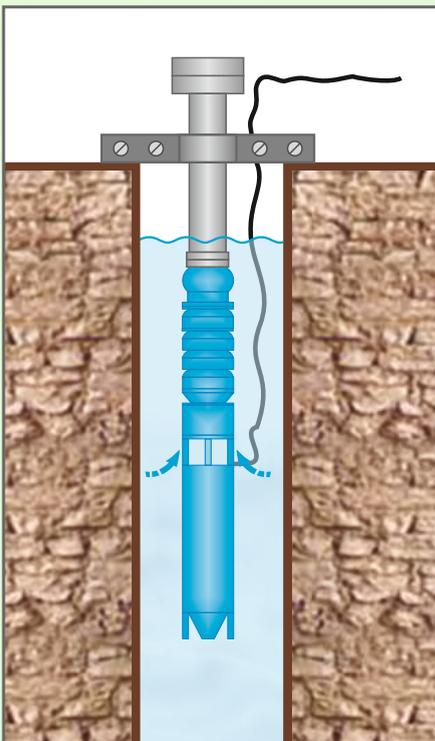
Typical Installations:



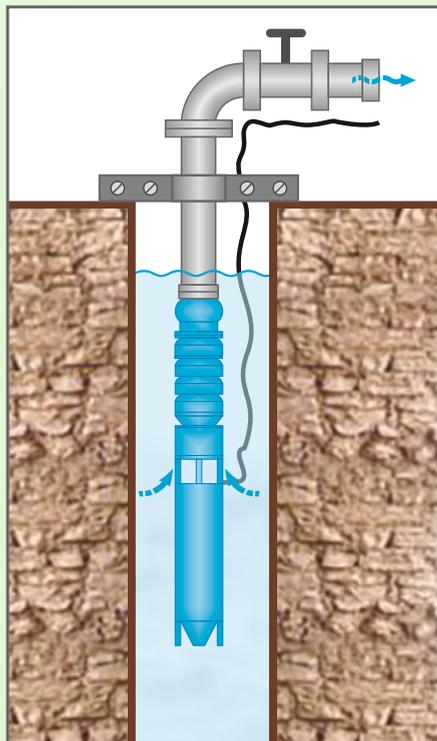
Installation of Pullen Submersible Pump in Well Casing



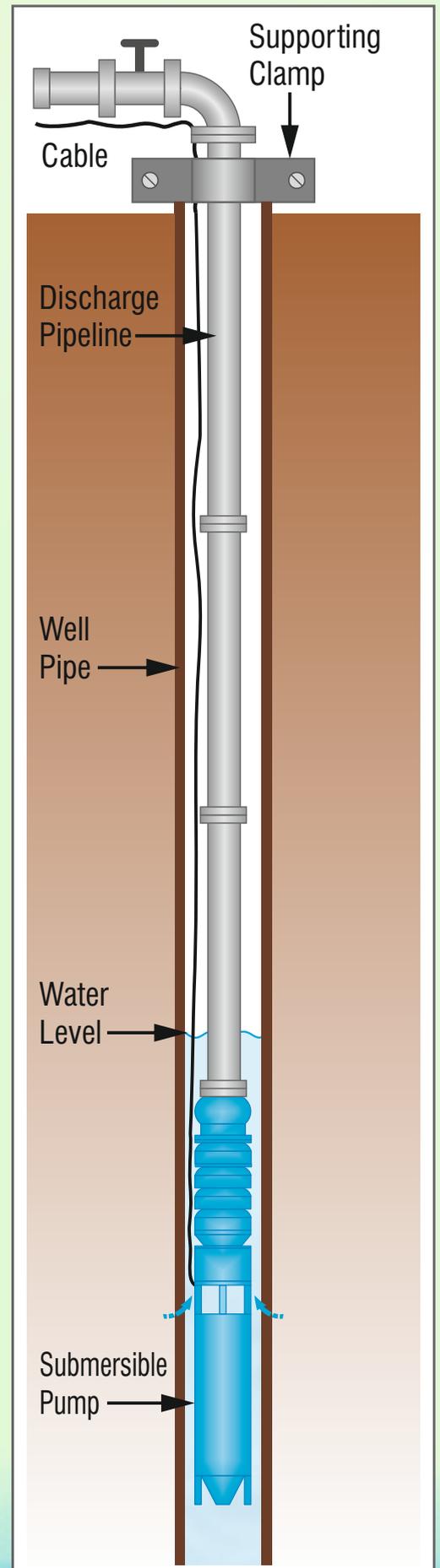
Joining of the Discharge Pipe & Lowering of the Pump to the Proper Setting.



Completed Installation. The Discharge Pipe with the Pump is held by a supporting clamp.

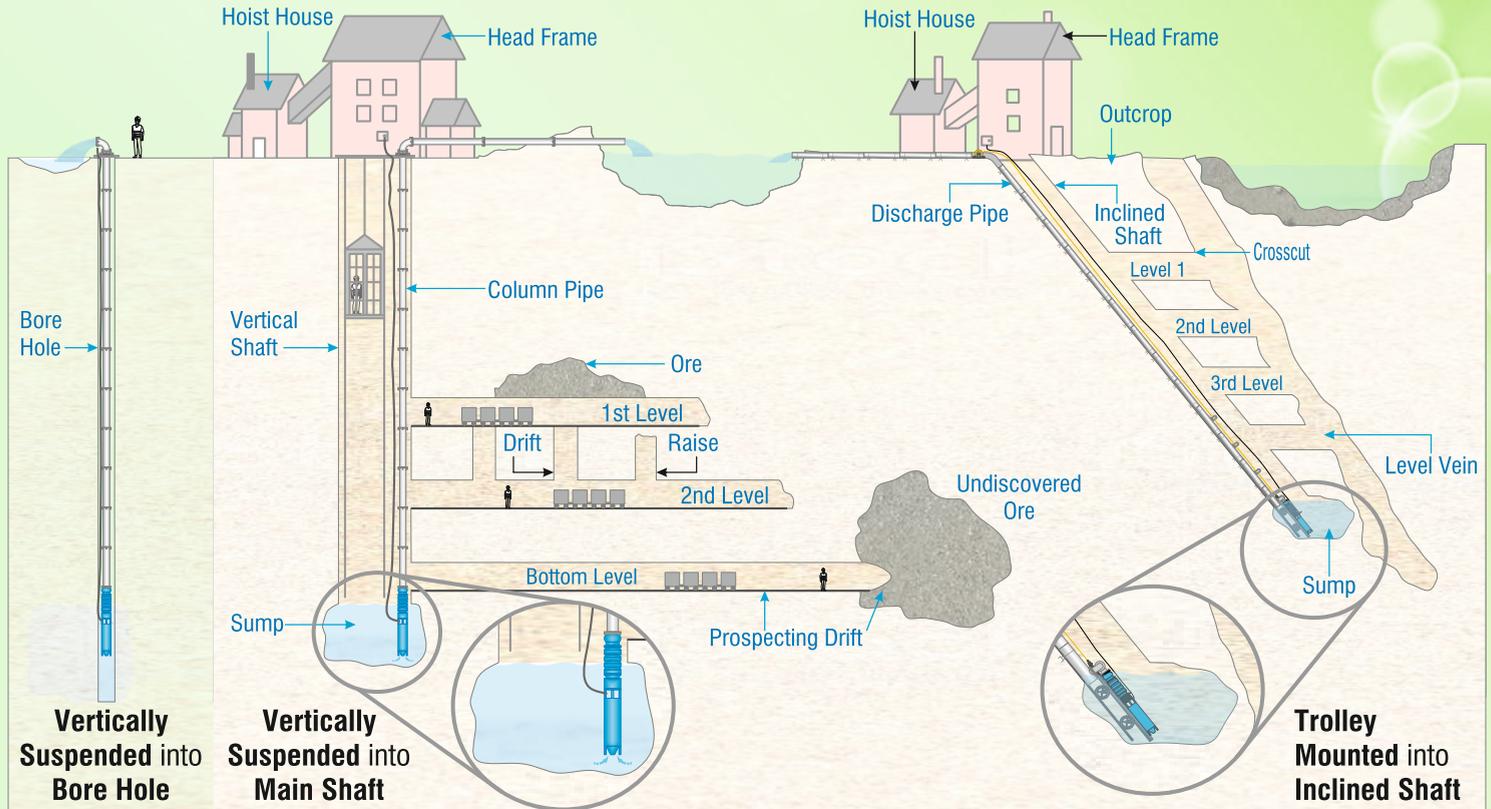


After Connecting the Discharge Pipe & Cable, the Pump is ready for use.





Bore Hole type Submersible Pumpsets & Mines



Benefits of Submersible Pumps

(Compared to Conventional Horizontal Mine Pumps)

- Failure of Power or Heavy Rains (leading to drastic rise of water level) does not lead to motor failure due to submergence.
- No pump house is required.
- No problem of Priming as the pump is always immersed under water.
- No problems of Alignment & Coupling.
- Unapproachable Areas can be dewatered.
- Release Large working places below unapproachable water logged areas to enable safe extraction of saleable coal.
- Liquidate Standing Pillars under Low Cover areas by open cast methods.

Installation at Site:





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**BGR Mining & Infra, South Kaliapani Chromite Mines, Kaliapani, Jajpur, Odisha:
1000 GPM @ 150 Mtr. Head, 180 kW / 240 hp, 415V, Cooling Jacketed Bore Hole Submersible Pump Set with Pontoon**

Some of Our Notable Achievements:-

Year	Rating	Rated Duty Point	Pump Type	Location
1994	65 hp (3 Nos.)	6960 Lpm @ 20 mtr 1500 rpm	Trolley Mounted	Singareni Collieries Co. Ltd., Kothagudam, AP.
2004	270 hp (2 Nos.)	4800 Lpm @ 175 mtr 3000 rpm	Bore Hole	South Eastern Coalfields Limited, Bilaspur, CG.
2006	240 hp (5 Nos.)	4546 Lpm @ 150 mtr 1500 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2008	300 hp (1 Nos.)	4500 Lpm @ 200 mtr 3000 rpm	Bore Hole	Mahanagar Seva Sadan, Bhavnagar, GJ.
2009	250 hp (10 Nos.)	16000 Lpm @ 56 mtr 1500 rpm	Bore Hole	Neyvelli Lignite Corporation, Neyvelli, TN.
2009	300 hp (3 Nos.)	16000 Lpm @ 63 mtr 1500 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2009	200 hp (2 Nos.)	4500 Lpm @ 120 mtr 3000 rpm	Bore Hole	Jamnagar Municipal Corporation, Jamnagar, GJ.
2010	300 hp (3 Nos.)	9000 Lpm @ 60 mtr 1500 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2012	285 hp (1 Nos.)	4800 Lpm @ 175 mtr 3000 rpm	Bore Hole	Mahanagar Seva Sadan, Bhavnagar, GJ.
2012	300 hp (1 Nos.)	2273 Lpm @ 100 mtr 3000 rpm	Bore Hole	Mahanagar Seva Sadan, Bhavnagar, GJ.
2014	215 hp (2 Nos.)	2273 Lpm @ 180 mtr 3000 rpm	Bore Hole	South Eastern Coalfields Limited, Bilaspur, CG.
2015	175 hp (2 Nos.)	9000 Lpm @ 60 mtr 1500 rpm	Bore Hole	South Eastern Coalfields Limited, Bilaspur, CG.
2015	270 hp (1 Nos.)	2273 Lpm @ 300 mtr 3000 rpm	Bore Hole	South Eastern Coalfields Limited, Bilaspur, CG.
2015	75 hp (6Nos.)	4546 Lpm @ 150 mtr 3000 rpm	Bore Hole	South Eastern Coalfields Limited, Bilaspur, CG.
2017	150 hp (3 Nos.)	4546 Lpm @ 200 mtr 3000 rpm	Bore Hole	Eastern Coalfields Limited, Sanctoria, WB.
2018	200 hp (3 Nos.)	4546 Lpm @ 200 mtr 3000 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2018	240 hp (5 Nos.)	4546 Lpm @ 200 mtr 3000 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2018	240 hp (4 Nos.)	4546 Lpm @ 250 mtr 3000 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2018	300 hp (6 Nos.)	2273 Lpm @ 200 mtr 3000 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2019	300 hp (3 Nos.)	4546 Lpm @ 200 mtr 3000 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.
2019	300 hp (11 Nos.)	4546 Lpm @ 150 mtr 3000 rpm	Bore Hole	Bharat Coking Coal Limited, Dhanbad, JH.
2019	350 hp (2 Nos.)	3600 Lpm @ 120 mtr 3000 rpm	Bore Hole	South Eastern Coalfields Limited, Bilaspur, CG.
2020	175 hp (1 Nos.)	4546 Lpm @ 200 mtr 3000 rpm	Bore Hole	Western Coalfields Limited, Nagpur, MH.
2020	300 hp (2 Nos.)	2273 Lpm @ 100 mtr 3000 rpm	Bore Hole	Mahanadi Coalfields Limited, Sambalpur, Odisha.
2020	240 hp (7 Nos.)	2273 Lpm @ 120 mtr 3000 rpm	Bore Hole	Mahanadi Coalfields Limited, Sambalpur, Odisha.



Some of Our Notable Achievements:-

Year	Rating	Rated Duty Point	Pump Type	Location
2020	120 hp (1 Nos.)	2273 Lpm @ 60 mtr 3000 rpm	Bore Hole	Mahanadi Coalfields Limited, Sambalpur, Odisha.
2021	300 hp (7 Nos.)	2273 Lpm @ 80 mtr 3000 rpm	Bore Hole	Bharat Coking Coal Limited, Dhanbad, JH.
2021	80 hp (2 Nos.)	4546 Lpm @ 250 mtr 3000 rpm	Bore Hole	Eastern Coalfields Limited, Sanctoria, WB.
2021	100 hp (6 Nos.)	4500 Lpm @ 165 mtr 3000 rpm	Bore Hole	Eastern Coalfields Limited, Sanctoria, WB.
2021	60 hp (2 Nos.)	5600 Lpm @ 150 mtr 3000 rpm	Bore Hole	Eastern Coalfields Limited, Sanctoria, WB.
2021	75 hp (2 Nos.)	16000 Lpm @ 63 mtr 1500 rpm	Bore Hole	Eastern Coalfields Limited, Sanctoria, WB.
2021	350 hp (2 Nos.)	13500 Lpm @ 48 mtr 1500 rpm	Bore Hole	Singareni Collieries Co. Ltd., Kothagudam, AP.

Some of Our Clients:

• Coal Mines Clients:



BHARAT COKING COAL LIMITED
A Mini Ratna Company
Koyla Bhawan, Koyla Nagar, Dhanbad - 826005.
CIN - U10101JH1972GOI000918



Eastern Coalfields Limited



सॅट्रल कॉलफिल्ड्स लिमिटेड
Central Coalfields Limited
(A Subsidiary of Coal India Limited)

• Government Clients:



Gujarat Heavy Chemicals Limited



HINDUSTAN ZINC LIMITED



IndianOil



Jamnagar Municipal Corporation



VADODRA MUNICIPAL CORPORATION



ONGC



THDC

& Other Various Nagarpalikas

• Other Industries Clients:



ACB (INDIA) LIMITED



NUVO



ALOK INDUSTRIES LIMITED
INNOVATIVE TEXTILE SOLUTIONS



BGR Mining & Infra Private Limited

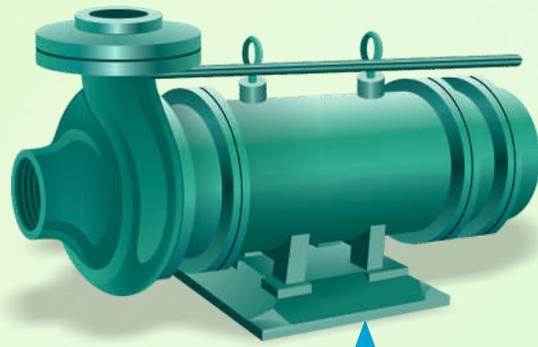




Other Products with Wet Motors:



Single/Multi Stage Polder type Submersible PumpSet



Horizontal Mono Submersible PumpSet

Our Goal:

All our pumps performs as promised & the high quality of these heavy-duty products, comes to you at an optimum cost. Always being there for our customers, providing them timely & relevant help with proper guidance. The fruits of our labor are reflected in the customer good will, we have earned over the years.



Spacious & State of the Art Plant...

Centralized Quotation Cell :
marketing@aquapumps.com
(+91-80001 53324)
pullen@aquapumps.com
(+91-99981 52516)

After Sales & Services :
service@aquapumps.com
(+91-90167 53328)
(+91-98259 51116)

Feedback :
ajp@aquapumps.com



Aqua Machineries Private Limited

www.aquapumps.com

Registered Office & Manufacturing Plant

Survey No. 504/1-2, 442/2, Near Haridarshan Estate, Near Express Highway, Ramol, Ahmedabad-382 445. Gujarat, India.