



NSIC – TECHNICAL SERVICES CENTRE
NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Government of India Enterprise)

Aji Industrial Area, Bhavnagar Road, Rajkot – 360003

Ph. 0281-2387398,

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Pump & Motor Testing Laboratory

NSIC – Technical Services Center at Rajkot, Gujarat offering the following testing facilities to industry through Pump & Motor Testing Laboratory:-

Sr. No.	Products	Applicable IS	Types of Tests Covered	Approved By
1	Centrifugal pumps	IS-6595	Performance & Type Test	Accreditation By NABL (ISO / IEC 17025 : 2017) And Approved By BIS
2	Submersible pump set	IS 8034	Performance & Type Test	
3	Open well pump set	IS-14220	Performance & Type Test	
4	Electric Mono block Pumps	IS-9079	Performance & Type Test	
5	Engine Mono set	IS -11501	Performance & Type Test	
6.	Regenerative Self priming Pump	IS-8472	Performance & Type Test	
7.	Submersible Motors	IS-9283	Performance & Type Test	
8.	Line operated three phase a.c Motors.(IE Code)	IS-12615	Performance & Type Test	
9.	Vertical Turbine Pump	IS -1710	Performance Test	

10.	Foot valves,	IS - 10805	Performance Test	Accreditation By NABL (ISO / IEC 17025 : 2017) And Approved By BIS
11.	Single-phase a.c. industrial motors	IS -996	Performance & Type Test	Accreditation By NABL (ISO / IEC 17025 : 2017) And Approved By BIS
12.	Calibration of Motor	-	Calibration	ISO 9000:2015



Centrifugal Pump

Submersible Pump

Engine Moonset Pump

Submersible Motor



Three Phase Induction Motor

Open well submersible pump set



Single Phase Induction Motor

Foot Valve



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Solar Photovoltaic Water Pumping System Testing Laboratory

NSIC – Technical Services Center at Rajkot, Gujarat offering the following testing facilities to industry through Solar Photovoltaic water pumping system Testing Laboratory:-

Sr. No.	Products	Applicable IS	Types of Tests Covered	Approved By
1	AC/DC Standalone Solar Powered Agricultural Water Pumps up to 10 HP (Solar Photovoltaic Water Pumping System)	17018 & MNRE Guidelines- for SPV Water Pumping Systems (Clause No. II, F. No. 42/25/2014-15/PVSE: 2014); (Clause No. II, F. No. 41/06/2015-16-PVSE: 2015) & (Clause No. 4, F. No. 41/3/2018 - SPV Division)	<p>Total Water Output per day for Performance Tests (a) Hot Profile Performance Test (b) Cold Profile Performance Test (c) Outdoor Performance Test</p> <p>Protection Test (a) Dry Run Test (b) Reverse Polarity Test (c) Open-circuit / No-load (d) Output Short-circuit</p> <p>Total Water Output per Watt peak per day for Performance Tests (a) Hot Profile Performance Test (b) Cold Profile Performance Test (c) Outdoor Performance Test</p> <p>MEASUREMENT OF HEAD Measurement of rate of flow</p> <p>PER DAY WATER FLOW TEST FOR SUBMERSIBLE AND SURFACE PUMPS</p> <p>REMOTE MONITORING SYSTEM VERIFICATION</p> <p>PERFORMANCE REQUIREMENTS</p> <p>Overall efficiency- Design check of PV pumping system in respect to daily water volume</p> <p>Based on System Performance Diagrams: H-Q Diagrams and Total Water Output</p> <p>SOLAR RADIATION MEASUREMENT</p>	Accreditation is in under progress of NABL (ISO / IEC 17025 : 2017) And BIS.



Photovoltaic Solar Water Pumping System.