 Scientific And industrial Testing and Research Centre, Coimbatore-641006	Electrical Testing Laboratory		Code No.
	SERVICE REQUEST FORM		
	Test as per Open well Submersible Pumpsets – SINGLE PHASE MOTORS (As per IS 14220-2018 First Revision)– (up to and including all amendments) (For SINGLE PHASE MOTORS)		


# Name of the Test item		Openwell Submersible Pump set – Single Phase AC Induction Motor			
# Rated Output	kW	# Rated Voltage	V	# Max. Current	A
# Rated Freq.	Hz	# No. of poles	2 / 4	# Rated Speed	rpm
# Winding Conn.	CSR / CSCR / CSIR	# Category	CAT. A / CAT. B	# Type of Duty	S1
# Running Capacitor & Voltage Rating				# Starting Capacitor & Voltage Rating	
# Type of motor	Induction motor Wet / dry	Winding	Poly. wire / Enamel wire	# Class of Insulation	
# Method of Cooling & Liquid / Filling	Wet Type - Water	# Starting Torque	% of FLT	# Starting Current	% of FLC
	Water / Oil / Resin				
# Leakage Current	mA	Cable Size / Length	Sq.mm	Type of Cable	Flat / Round
			m		
# Bore Size (min.)	mm	Motor Size (OD)	mm	Pump Size (OD)	mm
# No. of Stage(s)		# Head at Nominal Duty Point	m	# Head Range	m
# Delivery Pipe Size	mm	# Overall Efficiency	%	# Discharge at Nominal Duty Point	lps
Motor Eff. Factor	%	# Min. Submergence	m	Star Rating	
# Earthing	Provided / Not Provided	# Terminal marking	Affixed / Not Affixed	# Connection Diagram	Affixed / Not Affixed
# Pump Efficiency(Minimum)		%	Model		
# Manufacturer Motor Sl.No.			# Pump Sl.No		
Trade mark/Brand			BIS Mark & CM/L No. if any		

Note: Rating above 2.2kW may be declared by the manufacturer (Efficiency shall not less than 2.2kW value).For 4 Pole Motors, the performance values shall be declared by the manufacturer.

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Name and Address of the Customer in Test Report		Ref Doc. Details :	
Name and Address of the Customer in Invoice		Contact Person :	
		Phone No.	
MIN No.		Date	
For Si'Tarc		For Customer	
Date:	Sign & Name	Date:	Sign & Name

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Test Requirements					
Sl.No.	Name of the test / Clause No.	Test Required Y/NR	Sl.No.	Name of the test / Clause No.	Test Required Y/NR
1.	General (14.1)		8	Breakaway (Starting) Torque test (Cl.14.10.1 g)	
2.	Insulation Resistance Test (Cl.14.10.1 a)		9	Leakage current test (Cl.14.10.1 h)	
3.	High Voltage test (Cl.14.10.1 b)		10	Temp. rise test at rated voltage (Cl.14.10.1 j)	
4.	Measurement of Stator winding resistance test (Cl. 14.10.1 c)		11	Temperature rise test reduced voltage (Cl.14.10.1 k) (N/A for Cat. A Motor)	
5.	No load test (Cl.14.10.1 d)		12	Hydrostatic Pressure Test (Cl.15.5)	
6.	Reduced voltage running up test at no load (Cl.14.10.1 e)		13	Verification of Guarantee (Cl.16)	
7.	Locked rotor test (Cl.14.10.1 f)		14		
*Y- Required, NR – Not Required, ND – Not Described. Put “Y” or “NR “for test requirements, For BIS test requirement attach a Performance declared values for each sample in an authenticated separate sheet. The above details are to be furnished by the customer at the time of submitting the samples for testing.					

Note:

- 1) Kindly issue separate SRF Form for each sample.
- 2) The tests marked with an * are not accredited by NABL.
- 3) Marked with a # are Mandatory Fields.

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Materials of Construction (Cl.No.7.1) - Customer Declaration Required / Not Required

Sl.No.	Component	Material of Construction	Customer Declaration
1	Shaft Sleeve	Grade X 04 Cr12, X 12 Cr12, X 20 Cr13, confirming to IS 1570(Part-5)	
2	Motor Bearing House & Base	Grade FG 200of IS 210	
3	Motor Shaft	Grade X04 Cr 12,X12 Cr 12 or X20 Cr 13, confirming to IS 1570(Part-5) or Grade 40C8 or 45C8 confirming to IS 1570 (Part 2/Sec 1)	
4	Bearing Bush	Leaded tin Bronze grade. LTB3,4 or 5 of IS 318 or resin based carbon or PTFE bonded carbon	
5	Rotor	Electrical sheet steel confirming to IS 648 and electro grade copper	
6	Stator Core	Electrical sheet steel confirms to IS 648 and electro grade copper rods confirming to IS 613 or Aluminum die cast rotor confirming to IS 617	
7	Winding wire	a). For poly filled motors b).PVC insulated winding wire confirming to IS 8783 c).With polymer insulation such that the test on insulation resistance satisfied	
8	Breather and Diaphragm & Cable gland	Nitrile Rubber	
9	Cable	PVC insulated and PVC core flat type confirming to IS 694 or PVC insulated polymer sheathed 3 core flat type	
10	Thrust bearing face combinations	Bronze-ferro-asbestos, brass-ferro tests, carbon- stainless, bronze suitable elastomer or any other suitable combinations	
11	Casing Wear Ring (if provided)	Bronze grade LTB 2,3,4,or 5 of IS 318 or Nitrile rubber or NBR or Plastic/techno polymer or X 04 Cr19Ni-9/10 of IS 6911	
12	Water Drain plug	Bronze/brass/stainless steel/suitable plastics	
13	impeller	High tensile brass confirming to IS 304 or leaded tin bronze LTB 2 of IS 318 or Cast iron FG 200 grade of IS 210 or suitable thermoplastics such as poly phenylene oxide(PPG) polycarbonate , acetal, glass filled nylon 6/nylon 66 PTFE, ABS, Polymer PETP, UHMWPE, rec	
414	Casing	Cast iron grade of FG 200 of IS 210, Alloy steel conforming to IS 3444	

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