
 Scientific And industrial Testing and Research Centre, Coimbatore-641006	ELECTRICAL TESTING LABORATORY				Code No.
	SERVICE REQUEST FORM				
	Test for SUBMERSIBLE PUMPSET - SPECIFICATION (As Per IS 8034 : 2018 – Third Revision- up to and including all amendments) (For THREE PHASE MOTORS)				

# Name of the Test item		Submersible Pump set – Three Phase AC Induction Motor			
#Rated Output	kW	#Rated Voltage	V	#Max. Current	A
#Rated Frequency	Hz	#No. of poles	2 / 4	#Rated Speed	rpm
#Winding Connection	Star / Delta / Star Delta	#Category	CAT. A / CAT. B	#Type of Duty	S1
#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		

SLFEL096 / 01-00 / 01-20

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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 (Cl 6.1)		8.	Locked rotor test (Cl.9.10 f)	
2	Surface finish Test (Cl 9.1)		9.	Leakage current test (Cl.9.10 h)	
3.	Insulation resistance Test (Cl.9.10 a)		10.	Temp. rise test at rated voltage (Cl.9.10 j)	
4.	High Voltage test (Cl.9.10 b)		11.	Temperature rise test reduced voltage (Cl.9.10 k) (N/A for Cat. A Motor)	
5.	Measurement of Stator winding resistance test (Cl. 9.10 c)		12.	Hydrostatic Pressure Test (Cl.10.3)	
6.	No load test (Cl.9.10 d)		13.	Verification of Guarantee (Cl.11)	
7.	Reduced voltage running up test at no load (Cl.9.10 e)		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) Marked with a # are Mandatory Fields.

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Materials of Construction (Cl.No.8.2) - Customer Declaration Required / Not Required

Sl.No.	Component	Material of Construction	Customer Declaration
1	Shaft Sleeve	Bronze Grade LTB2,3,4 or 5 of IS318 or 12% Chromium steel Grade X 04 Cr12, X 12 Cr12, X 20 Cr13, X 04 Cr19Ni-9/10 confirming to IS 6911 or IS 6603	
2	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	
3	Bush	Bronze grade. LTB2,3 or 4 of IS 318 or Nitrile/cutless rubber or NBR	
4	Discharge Casing (if provided)	Cast iron grade of FG 200 of IS 210 or plastic/ techno polymer or X 04 Cr19Ni-9/10 of IS 6911	
5	Impeller	Bronze grade LTB 2 of IS 318 or stainless steel grade X12Cr12 or Plastic/techno polymer or X 04 Cr19Ni-9/10 of IS 6911 or IS 6603 or plastic/techno polymer	
6	Pump bowl/Diffuser	Cast iron grade of FG 200 of IS 210 or plastic/ techno polymer or X 04 Cr19Ni-9/10 of IS 6911	
7	Pump Shaft	Stainless steel grade X 04 Cr12, 12 Cr12, X 20 Cr13, X 04 Cr19Ni-9/10 confirming to IS 6603	
8	Suction Casing	Cast iron grade of FG 200/FG260 of IS 210 or X 04 Cr19Ni-9/10	

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