
 Scientific And industrial Testing and Research Centre, Coimbatore-641006	ELECTRICAL TESTING LABORATORY				Code No.
	SERVICE REQUEST FORM				
	Test For SINGLE PHASE CENTRIFUGAL JET PUMP (As per IS 12225:1997 including amendment No 2)				

# Name of the Test item		Submersible Pump set – Single Phase AC Induction Motor			
#Motor Rated Output	kW	#Rated Voltage	V	#Rated Current	A
#No. of Phases	SINGLE	#No of poles		#Rated Speed	rpm
#Winding Connection	CSR / CSCR / CSIR	#Type of Duty		#Rated Frequency	Hz
#Class of insulation		Type of Encl.		Type of Motor	Induction motor
Degree of protection	IP	Method of Cooling	IC	#Starting Current	
#Start Cap Value / Voltage		#Run Cap Value / Voltage		#Starting Torque	% of FLT
#Suction Pipe Size	mm	#Delivery Pipe Size	mm	#Pressure Pipe Size	mm
#Rated Head	m	#Rated Discharge	lph	#DLWL	m
#DLWL Range	m	#Min Submergence	m	#Bore Size (min)	mm
#Power Input	#Earthing	Provided / Not Provided	#Connection Diagram	Affixed / Not Affixed	
#Manufacturer Sl.No		Model No		Trade mark/Brand	
BIS Mark & CM/L No. if any					

Test Requirements					
Sl. No.	Name of the test / Clause No.	Test Required	Sl. No.	Name of the test / Clause No.	Test Required
1	General		6	Measurement of winding resistance test (CI 11.2.1)	
2	Insulation resistance Test (CI.11.1b)		7	High Voltage test (CI 11.1a)	
3	No load test (CI.11.1c)		8	Reduced voltage running up test (CI 11.1e)	
4	Locked rotor test (CI 11.1d)		9	Temperature rise test (CI 11.2.3)	
5	Temperature rise test(at Reduced voltage) (CI 11.2.3)		10	Hydrostatic Pressure test (CI 9.3)	

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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*Y- Required ,NR – Not Required, ND – Not Described, T – Type test , A – Acceptance test , R – Routine test ,O – Optional test 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.

Materials of Construction (Cl.No.8) - Customer Declaration Required / Not Required

Sl.No.	Component	Material of Construction	Customer Declaration
1.	Nozzle	Brass Grade HTB1 of IS 304 or bronze LTB2 of IS 318 or suitable thermoplastics such as polyphenylene oxide (PPO), polycarbonate (PC), acetal (polyacetals) resins, nylon 6 or nylon 66 , glass filled nylon, stainless steel grade 04Cr13,12Cr13,20Cr13 of IS 6603, cast iron grade FG 200 of IS 210, polytetrafluoroethylene (PTFE), acrylonitrile butadiene styrene copolymers(ABS), polyethylene terephthalate(PET), ultra high molecular weight polyethylene (UHMWP), etc.	
2.	Venturi	Brass grade HTB1 of IS 304 or bronze LTB2 of IS 318 or suitable thermoplastics such as polyphenylene oxide (PPO), Poly carbonate(PC), acetal (Polyacetals)resins, nylon 6 or nylon 66, glass filled nylon, stainless steel grade 04Cr13, 12Cr13, 20Cr13 of IS 6603, castiron grade FG 200 of IS 210, polytetrafluoroethylene(PTFE), acrylonitrile butadiene styrene copolymers(ABS), polyethylene terephthalate(PET), ultra high molecular weight polyethylene (UHMWPE),etc.	
3.	Foot Valve	Bronze grade LTB2 of IS 318 or brass grade HTB1 of IS 304 or cast iron grade FG 200 of IS 210 or suitable thermoplastics such as polyphenylene oxide (PPO), polycarbonate (PC),acetal(polyacetals) resins, nylon 6 or nylon 66,glass filled nylon, polytetrafluoroethylene (PTFE),acrylonitrile butadiene styrene copolymers(ABS),polyethylene terephthalate(PET),ultra high molecular weight polytpolyethylenePE), etc.	
4.	Strainer of Foot valve	Brass grade HTB1 of IS304 or suitable thermoplastics such as polypropylene, nylon 6 or nylon 66,cast iron grade FG 200 of IS 210,high density polypropylene (HDPE), Low density polypropylene (LDPE),glass filled nylon, etc.	
5.	Jet pump(Assembly) Body	Cast iron grade FG 200 of IS 210 or bronze grade LTB2 of IS318 or brass grade HTB1 of IS 304 or suitable thermoplastics such as polyphenylene oxide (PPO), polycarbonate (PC), acetal(polyacetals) resins, nylon 6 or nylon 66,glass filled nylon, polyetrafluoroethylene	

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		(PTFE) etc.	
6.	Impeller	Brass grade HTB1 of IS 304 or bronze LTB2 of IS 318, cast iron grade FG 200 of IS 210 or suitable thermoplastics such as polyphenylene oxide (PPO), polycarbonate (PC), acetal (polyacetals) resins, nylon 6 or nylon 66, glass filled nylon, polytetrafluoroethylene (PTFE), acrylonitrile butadiene styrene copolymers (ABS), polyethylene terephthalate (PET), ultra high molecular weight polyethylene (UHMWPE), etc.	
7.	Casing	Cast iron grade FG 200 of IS 210 or corrosive resistance alloy steel and nickel base casting for general application (see IS 3444) suitable plastic or aluminum magnesium alloys.	
8.	Pressure Regulating valve:		
	a) Body	Brass grade HTB1 of IS 304 or bronze LTB2 of IS 318 or suitable thermoplastics such as polyphenylene oxide (PPO), Poly carbonate (PC), acetal (Polyacetals) resins, nylon 6 or nylon 66, glass filled nylon, stainless steel grade 04Cr13, 12Cr13, 20Cr13 of IS 6603, cast iron grade FG 200 of IS 210, polytetrafluoroethylene (PTFE), acrylonitrile butadiene styrene copolymers (ABS), polyethylene terephthalate (PET), ultra high molecular weight polyethylene (UHMWPE), etc.	
	b) Diaphragm	Neoprene rubber or nitrile rubber.	
	c) Valve seat	Bronze grade LTB2 of IS 318 or suitable thermoplastics such as polyphenylene oxide (PPO), Poly carbonate (PC), acetal (Polyacetals) resins, nylon 6 or nylon 66, glass filled nylon, stainless steel grade 04Cr13, 12Cr13, 20Cr13 of IS 6603, cast iron grade FG 200 of IS 210, polytetrafluoroethylene (PTFE), acrylonitrile butadiene styrene copolymers (ABS), polyethylene terephthalate (PET), ultra high molecular weight polyethylene (UHMWPE), etc.	
9.	Slip coupling (optional) for Twin type :		
	a) Body	Cast iron grade FG 200 of IS 210	
	b) Sealing Ring	Neoprene rubber or nitrile rubber	
10.	Packer Head/Duplex Head and Flanges	Cast iron grade FG 200 of IS 210.	

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