



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India)

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Basic Details

1.	Sectional Committee No. & Title:	MED 20-Pumps
2.	IS No :	IS 5659 : 1970
3.	Title :	Specification for pumps for process water
4.	Date of Review:	2016

Review Analysis

5.1 Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.

S.No.	Standard (No.)	Standard (Title)	Whether the standard has since been revised	Major changes	Action proposed
1	IS 5659-1970	Specification for pumps for process water	No	No change.	Assistance has been not taken.

5.2 Status of standard referred in the IS.

S.No.	Referred standards (No.)	Referred standards (Title)	Since revised IS no. of the corresponding IS	Changes in the referred Standards since last review of IS	If the corresponding IS is revised with reference to the referred Standards	Action proposed
1-	IS 5120-1977	Technical requirements for rotodynamic special purpose pumps (First Revision)	1952, 1962, 1981	No change	-	Information will be remain the same.
2-	IS 3120-1999	Baby incubators - Specification (Second Revision)	1965, 1978, 1999	No change	-	Information will be remain the same.

5.3 Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc or of new or revision of existing Indian Standard).

S.No.	Standard (No.)	Standard (Title)	Provisions that could be relevant while reviewing the IS	Action proposed
1	ISO 17769-1:2012(en)	Liquid pumps and installation — General terms, definitions, quantities, letter symbols and units — Part 1: Liquid pumps	Special terms for rotodynamic pumps given in clause 2.2 can be provided in this current revision	To be considered.

5.4 Technical comments on the standard received, if any.

S.No.	Source	Clause of IS	Comment	Action proposed
No records found				

5.5 Information available on relevant technical developments

S.No.	Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed
1-	Research Papers	Method for improving the efficiency of pumps is to line the pumps with a polymeric coating system. https://www.waterworld.com/water-utility-management/energy-management/article/16189696/polymer-coating-of-pumps-boosts-efficiency-performance	new clause on improving the efficiency to be added.	To be considered.

5.6 Issues arising out of changes in any related IS or due to formulation of new Indian Standard.

S.No.	Related IS (revised or new)	Related IS Title	Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision	Changes that may be necessary in the Standards under review	Action proposed
No records found					

5.7 Any consequential changes to be considered in other IS.

S.No.	Related IS to get impacted	Related IS Title	Requirements to be impacted
1-	IS 6596-1972	Specification for pumps for handling paper stock	Refer in 4.1, refer for nomenclature.
2-	IS 9201-1987	Specification for pumps for handling slurry (First Revision)	Refer in clause 9, for factor affecting pump performance.

Other Details

6.	Any other observation:	a) Cl. No. 7.1 (b) TO BE MODIFIED TO READ AS “ bearing temperature should be maintained below 800C b) Cl. No. 10.1 (b): Additional condition can be added as “ or shut off head of pump is higher than max. operating head where curve is un-stable near shut off head” c) Cl. No. 14.1: Modify to read as reduction in suction lift by 1.0 M for every 1000 M above MSL d) Cl. No. 15.2 & 15.3: Tolerance should be as per IS: 9137
7.	Supporting Document:	5659.pdf
8.	Recommendations - On the basis of the analysis of the info available as mentioned above consideration of sectional committee is solicited on the following aspects of the IS under review:	Committee must take action 1. Refer grade should be updated with new grade. 2. Refer standard designation should be updated in this new revision.