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Basic	Basic Details				
1.	Sectional Committee No. & Title:	MED 20-Pumps			
2.	IS No:	IS 5120 : 1977			
3.	Title:	Technical requirements for rotodynamic special purpose pumps (First Revision)			
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.	o. Standard (No.) Standard (Title)		Whether the standard has since been revised	Major changes	Action proposed		
1	IS 5120-1977	Technical requirements for rotodynamic special purpose pumps (First Revision)	No	No	assistance has not been taken.		

5.2 Stat	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		
No records found								

No records found

S.No.	Standard (No.)	Standard (Title)	Provisions that could be relevant while reviewing the IS	Action proposed
1	ISO 5198:1987	Centrifugal, mixed flow and axial pumps — Code for hydraulic performance tests — PrecisCentrifugal, mixed flow and axial pumps — Code for hydraulic performance tests — Precision gradeion grade	Section two - measurement method, can be considerable.	To be considered.
2	CEN/TR 13931:2009	Rotodynamic pumps - Forces and moments on flanges - Centrifugal, mixed flow and axial flow horizontal and vertical shafts pumps	Clause 4 'Validity of force and moment values – Effects of materials and temperature' of this slovenski standard can be provided in this current revision. This standard already adopted by British standard institute.	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	Effects of speed variation on Rotodynamic pumps. https://electrical-engineering-portal.com/effects-of-speed-variation-on-rotodynamic-pumps	new clause to be added.	To be considered.		

5.6 Issu	5.6 Issues arising out of changes in any related IS or due to formulation of new Indian Standard.						
S.No.	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						
	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 15301-2003	Installation and Maintenance of Fire Fighting Pumps - Code of Practice	Refer in clause 7.3.3 for sampling requirement	
2-	IS 14220-2018	Openwell submersible pumpsets - Specification (First Revision)	Refer in clause 3 for unit's requirement.	
3-	IS 8472-2019	Centrifugal regenerative pumps for clear, cold water - Specification (Second Revision)	Refer in clause 5.1 for Units, terminology and classification.	
4-	IS 9694 : Part 1-1987	Code of practice for the selection, installation, operation and maintenance of horizontal centrifugal pumps for agricultural applications: Part 1 selection (First Revision)	Refer in Annex D for applicable to agriculture pump.	

Other	Other Details					
6.	Any other observation:	1. Few point should be added in clause 10 of factor affecting pump performance. i) Vibration. ii) Pump misalignment. iii) Lubrication.				
7.	Supporting Document:	<u>5120.pdf</u>				
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 on following points. 1. Refer grades in this standard should be updated with new grades. 2. Refer superseded/withdrawn standard designation should be updated in this current new revision.				