REVIEW ANALYSIS OF INDIAN STANDARD

1. Sectional Committee No. & Title: MED 17 (Chemical Engineering Plants And Related Equipment Sectional Committee)
2. IS No: IS 10874: 1983
3. Title: Specification for Felsite Grinding Media and Liner Stones
4. Date of review: 06-12-2024
5. Review Analysis
6. Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.

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| Standard(No. & Title) | Whether the standard has since been revised  | Major changes | Action proposed |
| The standard is indigenous and no assistance had been drawn from any other source | NA | NA | Nil |

1. Status of standards referred in the IS

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| --- | --- | --- | --- |
| Referred standards(No. & Title) | IS No. of this standards since revised | Changes that are of affecting the standard under review | Action proposed |
| No other standard has been referred in the standard | NA | NA  | Nil |

1. 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)

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| Standard(No. & Title) | Provisions that could be relevant while reviewing the IS | Action proposed |
| No other International/Regional Standards available | Nil | Nil |

1. Technical comments on the standard received, if any

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| --- | --- | --- | --- |
| Source | Clause of IS | Comment | Action proposed |
| To be withdrawn |  |  |  |

1. Information available on technical developments that have taken place (on product/processes/practices/use or application/testing/input materials, etc)

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| --- | --- | --- | --- |
| Source | Development | Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.) | Action proposed |
| General | Grinding media like steel ball, cast iron ball, ceramic ball, grinding cylpebs, grinding rods, tungsten carbide ball, high chrome cast ball, alumina ball, glass beads, etc are commonly used in industries for grinding of material. The requirement of felsite grinding media by organized user are hardly found in the current situation. However, Felsite is being used as building material. Further, As per GOI Notification S.O.423(E), dated 10.2.2015, felsite has been declared as 'Minor Mineral'. Minor minerals have been defined in Section 3 of the mines and Minerals (Regulation and Development) Act, 1957 and comprise mostly such minerals that are locally available and have local use. These are not used in any major industries. | Nil | As Felsite grinding media are not commonly used for grinding purpose and other grinding media are becoming more popular, this standard has little impact on manufacturer and to industries who used grinding media other than felsite. Therefore, the standard may be considered for withdrawal.  |

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

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| --- | --- | --- | --- |
| Related IS and its Title(revised or new) | 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 |
| Nil  |  |  |  |

1. Any consequential changes to be considered in other IS

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| Related IS to get impacted | Requirements to be impacted |
| Nil |  |

1. Any other observation: The following are the observation during the review of the Indian Standard IS 10874:1983:

(a) Felsite has been declared as 'Minor Mineral' as per GOI Notification S.O.423(E), dated 10.2.2015. Minor minerals have been defined in Section 3 of the mines and Minerals (Regulation and Development) Act, 1957 and comprise mostly such minerals that are locally available and have local use. These are not used in any major industries.

(b) Other grinding media like steel ball, cast iron ball, ceramic ball, grinding cylpebs, grinding rods, tungsten carbide ball, high chrome cast ball, alumina ball, glass beads, etc are commonly used in industries for grinding of material. The requirement of felsite grinding media by organized user are hardly found in the current situation. However, Felsite is being used as building material.

(c) The standard covers the requirement such as dimension, chemical, physical characteristic like specific gravity and hardness only. The standard does not cover requirement which are necessary for grinding media like wear resistance, abrasion resistance, modulus of rupture, toughness and impact resistance, etc.

1. Recommendations: As the use of other grinding media as mentioned above are more popular in industries and felsite grinding media are not commonly used anymore. Therefore, the standard IS 10874:1983 may be considered for withdrawal as the standard is found to be obsolete and the need of this standard is hardly known. However, in case the need arise in the future, new standard may be formulated in consultation with all stakehodle and considering all the necessary requirement of grinding media.

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