BUREAU OF INDIAN STANDARDS

Program of Work

TXD 30: Geosynthetics

Scope: a) To formulate Indian standards on terminology, testing, specifications and codes of practices

for identification, handling, storage and installation, etc. of all products made from man-made

& natural materials including geo-textiles, geo-membranes, geo-grids, geo-foams, geo-

composites, geo-cells, clay liners and other geo-synthetic related products. b) To liaise with the

work of ISO/TC 221 Geo-synthetics Technical Committee as a participating member.

Liaison: **ISO TC-221 (P):** *Geosynthetics*

Published Standards

| S.No | IS No. | TITLE | Reaffirm M-Y | No. of Amds | Eqv. |
|------|---------------------|-------------------------------------|----------------|-------------|----------------------|
| 1 | IS/ISO 10769 : 2011 | Clay geosynthetic barriers | | - | Identical under dual |
| | ISO 10769:2011 | Determination of water absorption | | | numbering |
| | ISO 10769:2011 | of bentonite | | | |
| 2 | IS/ISO 10773 : 2011 | Clay geosynthetic barriers | | - | Identical under dual |
| | ISO 10773:2011 | Determination of permeability to | | | numbering |
| | ISO 10773:2011 | gases | | | |
| 3 | IS 13162 (Part 2): | Geotextiles – Methods of test Part | March, 2024 | - | Indigenous |
| | 1991 | 2 Determination of resistance to | | | |
| | Reviewed In: 2024 | exposure of ultraviolet light and | | | |
| | | water (Xenon-arc type apparatus) | | | |
| 4 | IS 13162 (Part 3): | Geosynthetics - Determination of | - | - | Identical under dual |
| | 2021 | thickness at specified pressures | | | numbering |
| | ISO 9863-1:2016 | (Part 3) : Single layers | | | |
| | ISO 9863-1:2016 | | | | |
| 5 | IS 13162 (Part 4): | Geotextiles – Methods of test Part | March, 2024 | - | Indigenous |
| | 1992 | 4 Determination of puncture | | | |
| | Reviewed In: 2024 | resistance by falling cone method | | | |
| 6 | IS 13321 (Part 1): | Geosynthetics - (Part 1) : Terms | | - | Identical under dual |
| | 2022 | and definitions | | | numbering |
| | ISO 10318-1:2015 | | | | |
| | ISO 10318-1:2015 | | | | |
| 7 | IS 13321 (Part 2): | Geosynthetics - (Part 2) : Symbols | | - | Identical under dual |
| | 2022 | and pictograms | | | numbering |
| | ISO 10318-2:2015 | | | | |
| | ISO 10318-2:2015 | | | | |
| 8 | IS 13325 : 1992 | Determination of tensile properties | February, 2019 | - | Indigenous |
| | Reviewed In: 2019 | of extruded polymer geogrids using | | | |
| | | the wide strip - Test method | | | |
| 9 | IS 13326 (Part 1): | Evaluation of interface friction | March, 2024 | - | Indigenous |
| | 1992 | between geosynthetics and soil | | | |
| | Reviewed In: 2024 | method of test: Part 1 modified | | | |
| | | direct shear technique | | | |
| 10 | IS 14293 : 1995 | Geotextiles - Method of test for | March, 2024 | - | Indigenous |
| | Reviewed In: 2024 | trapezoid tearing strength | | | |
| l | | l l | | 1 | |

| 1 | L xg 14204 1005 | | 1 2024 | 1 . | 1 |
|---------|-------------------------|---|----------------|-----|----------------------|
| 11 | IS 14294 : 1995 | Geotextiles - Method for | March, 2024 | 1 | Indigenous |
| | Reviewed In: 2024 | determination of apparent opening | | | |
| 12 | 10 14224 1007 | size by dry sieving technique | M 1 2024 | | T 1' |
| 12 | IS 14324 : 1995 | Geotextiles – Methods of test for | March, 2024 | - | Indigenous |
| | Reviewed In: 2024 | determination of water | | | |
| 12 | IC 14707 1000 | permeability – Permittivity | M 1 2024 | | T 1' |
| 13 | IS 14706 : 1999 | Geotextiles - Sampling and | March, 2024 | - | Indigenous |
| 14 | Reviewed In : 2024 | preparation of test specimens | M1- 2024 | | To dia an area |
| 14 | IS 14714 : 1999 | Geotextiles - Determination of | March, 2024 | - | Indigenous |
| 15 | Reviewed In : 2024 | abrasion resistance Jute geotextiles - (Part 1) | May, 2020 | | Indiagnous |
| 13 | IS 14715 (Part 1): 2016 | , , | May, 2020 | - | Indigenous |
| | 2010 | Strengthening of sub-grade in roads | | | |
| | Reviewed In: 2020 | - Specification (second revision) | | | |
| 16 | IS 14715 (Part 2): | Jute geotextiles - (Part 2) Control | May, 2020 | 1 | Indigenous |
| 10 | 2016 | of bank erosion in rivers and | May, 2020 | - | margenous |
| | 2010 | | | | |
| | Reviewed In: 2020 | waterways - Specification (second | | | |
| 17 | IS 14716 : 2021 | revision) Geosynthetics - Test method for | | 1 | Modified/Technically |
| 1 / | ISO 9864:2005 | the determination of mass per unit | - | - | Equivalent |
| | 130 7004,2003 | area of geotextiles and geotextile- | | | Equivalent |
| | | related products | | | |
| 18 | IS 14739 : 2021 | Geotextiles and geotextile-related | | | Identical under dual |
| 10 | ISO 13431:1999 | products Determination of tensile | | _ | numbering |
| | ISO 13431:1999 | creep and creep rupture behaviour | | | numbering |
| 19 | IS 14986 : 2001 | Guidelines for application of jute | March, 2023 | | Indigenous |
| | Reviewed In : 2023 | geotextile for rain water erosion | Waren, 2023 | | margenous |
| | Reviewed III . 2023 | control in road and railway | | | |
| | | embankments and hill slopes | | | |
| 20 | IS 15060 : 2018 | Geosynthetics – Tensile test for | March, 2024 | _ | Identical under dual |
| | ISO 10321:2008 | joint seams by wide-width strip | March, 2024 | | numbering |
| | Reviewed In : 2024 | method (first revision) | | | numbering |
| | ISO 10321:2008 | method (first revision) | | | |
| 21 | IS 15868 (Part 16): | Natural fibre geotextiles (Jute | January, 2023 | _ | Indigenous |
| | 2008 | geotextile and coir | varioury, 2022 | | margeneas |
| | Reviewed In: 2023 | BHOOVASTRA) – Methods of | | | |
| | iteviewed in : 2023 | test | | | |
| 22 | IS 15869 : 2020 | Textiles – Open weave coir | - | - | Indigenous |
| | | Bhoovastra – Specification (first | | | |
| | | revision) | | | |
| 23 | IS 15871 : 2009 | Use of coir geotextiles (Coir | March, 2024 | - | Indigenous |
| | Reviewed In: 2024 | BHOOVASTRA) in unpaved roads | | | |
| | | - Guidelines | | | |
| 24 | IS 15872 : 2009 | Application of coir geotextiles | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | (Coir woven BHOOVASTRA) for | | | |
| | | rain water erosion control in roads, | | | |
| | | railway embankments and hill | | | |
| | | slopes – Guidelines | | | |
| 25 | IS 15909 : 2020 | PVC Geomembranes for Lining - | - | - | Indigenous |
| | | Specification (Second Revision) | | | |
| | | | | | |
| 26 | IS 15910 : 2010 | Geosynthetics for highways - | March, 2024 | - | Indigenous |
| <u></u> | Reviewed In: 2024 | Specification | | | |
| 27 | IS 16078 : 2013 | Geosynthetics - Static puncture test | January, 2023 | - | Identical under dual |
| | ISO 12236 | (CBR Test) | | | numbering |
| | Reviewed In: 2023 | | | | |
| | ISO 12236:2006 | | | | |
| 28 | IS 16090 : 2013 | Geo-synthetics - Geo-textiles used | January, 2023 | 1 | Indigenous |
| | Reviewed In: 2023 | as protection (or cushioning) | | | |
| • | • | . ' | | • | • |

| l | | materials - Specification | | 1 1 | |
|----------|--------------------|--|----------------|-----|------------|
| 29 | IS 16237 : 2014 | Geo-synthetics – Method for | March, 2024 | - | Indigenous |
| | Reviewed In: 2024 | determination of apparent opening | | | |
| | | size by wet sieving | | | |
| 30 | IS 16341 : 2015 | Geosynthetics - Standard practice | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | for exposure and retrieval of | | | |
| | | samples to evaluate installation | | | |
| | | damage of geosynthetics | | | |
| 31 | IS 16342 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | grab breaking load and elongation | | | |
| | | of geotextiles | | | |
| 32 | IS 16343 : 2015 | Geosynthetics - Guidelines for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | installation of geotexiles as | | | |
| | | pavement fabric | | | |
| 33 | IS 16344 : 2015 | Geosynthetics - Guidelines for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | installation of geotextile for | | | |
| | | permanent erosion control in hard | | | |
| | | armor systems | | | |
| 34 | IS 16345 : 2020 | Geosynthetics – Guidelines for | - | - | Indigenous |
| | | installation of geotextile used in | | | |
| | | subgrade separation in pavement | | | |
| | | structures (first revision) | | | |
| 35 | IS 16346 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | evaluation of stress crack | | | |
| | | resistance of polyolefin | | | |
| | | geomembranes using notched | | | |
| | | constant tensile load test | | | |
| 36 | IS 16347 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | effects of temperature on stability | | | |
| | | of geotextile | | | |
| 37 | IS 16348 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | index puncture resistance of | | | |
| | | geomembranes and related | | | |
| | | products | | | |
| 38 | IS 16349 : 2015 | Geosynthetics – Guidelines for | December, 2019 | - | Indigenous |
| | | installation of geogrids used as | | | |
| | Reviewed In: 2019 | reinforcement of base and sub-base | | | |
| | | layers in pavement structures | | | |
| 39 | IS 16351 : 2015 | Geosynthetics - Standard practice | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | for laboratory immersion | | | |
| | | procedures for evaluating the | | | |
| | | chemical resistance of | | | |
| 10 | TO 1 (0.70 - 0.00) | geosynthetics to liquids | | 1 | T " |
| 40 | IS 16352 : 2020 | Geosynthetics – High density | - | - | Indigenous |
| | | polyethylene (HDPE) | | | |
| | | geomembranes for lining – | | | |
| A 1 | IC 1/255 2015 | Specification (first revision) | Dagg=1 2010 | + | T., 11 |
| 41 | IS 16355 : 2015 | Geosynthetics - Guidelines for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | installation of geogrids used as soil | | | |
| | | reinforcement in mechanically | | | |
| | | stabilised earth (MSE) retaining | | | |
| 42 | IC 16256 : 2015 | Structures Coccumthatics Method of test for | Dagambar 2010 | + | Indianno |
| 42 | IS 16356 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | pore size characteristics of | | | |
| 42 | IC 16262 - 2020 | geotextiles by capillary flow test | | 1 | Indiana |
| 43 | IS 16362 : 2020 | Geosynthetics - Geotextiles used in | - | 1 | Indigenous |
| | | subgrade stabilization in pavement | | | |
| | | structures - Specification (first | | | |
| <u> </u> | | revision) | | + | |
| | | - | | - | |

| 1 | l | | | 1 | 1 |
|-------------|---------------------------------------|--|----------------|--------------|------------------------|
| 44 | IS 16363 : 2015 | Geosynthetics - Guidelines for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | installation of geotextile used in | | | |
| 45 | IS 16380 : 2020 | subsurface drainage application Geosynthetics – Method of test for | | + | Indiganous |
| 43 | 13 10380 : 2020 | measuring pullout resistance of | | - | Indigenous |
| | | geosynthetics in soil (first revision) | | | |
| 16 | IS 16389 : 2015 | | Danambar 2010 | + | In diagnose |
| 46 | 18 16389 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | Reviewed In: 2019 | biological clogging of geotextile or | | | |
| 47 | | soil/geotextile filters | D | 1 | T., 1' |
| 47 | IS 16391 : 2015 | Geosynthetics - Geotextiles used in | December, 2019 | 1 | Indigenous |
| | D 1 I - 2010 | sub-grade separation in pavement | | | |
| 40 | Reviewed In : 2019 IS 16392 : 2015 | structures - Specification | Danambar 2010 | 1 | In diagnose |
| 48 | 15 10392 : 2013 | Geosynthetics - Geotextiles for | December, 2019 | 1 | Indigenous |
| | D 1 I - 2010 | permanent erosion control in hard | | | |
| 40 | Reviewed In : 2019 | armor systems - Specification | D | 1 | T., 1' |
| 49 | IS 16393 : 2015 | Geosynthetics - Geotextiles used in | December, 2019 | 1 | Indigenous |
| | D 1 11 2010 | subsurface drainage application - | | | |
| | Reviewed In : 2019 | Specification Specification | D 1 2010 | | 7 1 |
| 50 | IS 16474 : 2015 | Geosynthetics – Method of test for | December, 2019 | | Indigenous |
| | D 11 2010 | tensile properties of geogrids by | | 1 | |
| | Reviewed In: 2019 | the single or multi-rib tensile | | 1 | |
| E 1 | IC 16475 2015 | method | Desc1 2010 | | T., 4! |
| 51 | IS 16475 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | D 1 11 2010 | determination of 2 percent secant | | | |
| | Reviewed In: 2019 | modulus for polyethylene | | | |
| | YO 4 6 4 5 5 6 0 4 5 | geomembranes | D 1 2010 | - | - |
| 52 | IS 16477 : 2015 | Geosynthetics - Method of test for | December, 2019 | - | Indigenous |
| | D 1 11 2010 | determination of 2 performance | | | |
| | Reviewed In: 2019 | strenght of geomemberanes by the | | | |
| 52 | IC 16402 2017 | wide strip tensil method | 1 2022 | | Y 1' |
| 53 | IS 16483 : 2017 | Geosynthetics - Method for | January, 2023 | - | Indigenous |
| | D : 11 2022 | microscopic evaluation of the | | | |
| | Reviewed In: 2023 | dispersion of carbon black in | | | |
| 54 | IS 16493 : 2017 | polyolefin geosynthetics Geosynthetics – Method of test for | January, 2023 | | Indigenous |
| 34 | 13 10493 : 2017 | 1 - | January, 2025 | - | margenous |
| | Daniana d In . 2022 | determination of pyramid puncture | | | |
| | Reviewed In: 2023 | resistance of unprotected and | | | |
| 5.5 | IC 16625 - 2017 | protected geomembranes | January 2022 | + | Identical unden dual |
| 55 | IS 16635 : 2017 | Geosynthetics - Wide - Width tensile test | January, 2023 | _ | Identical under dual |
| | ISO 10319 : 2015 | tensne test | | 1 | numbering |
| | Reviewed In : 2023 | | | 1 | |
| 5.6 | ISO 10319:2015 | Googynthotics Mandle words 1 | Ionuam 2022 | 1 | Not Environment |
| 56 | IS 16653 : 2017 | Geosynthetics - Needle punched | January, 2023 | 1 | Not Equivalent |
| | Davious d In 2002 | nonwoven geobags for coastal and | | 1 | |
| | Reviewed In: 2023 | waterways protection - | | 1 | |
| 57 | IC 16654 : 2017 | Specification Consumbation Polymorphone | Ion 2022 | + | In all cases |
| 57 | IS 16654 : 2017 | Geosynthetics - Polypropylene | January, 2023 | _ | Indigenous |
| | Reviewed In: 2023 | multifilament woven geobags for | | 1 | |
| | Keviewed III: 2023 | coastal and waterways protection - | | 1 | |
| 58 | IS 17179 : 2019 | Specification Geotaxtiles and geotaxtile related | March 2024 | + | Identical under dual |
| ا عق | ISO 12958 : 2010 | Geotextiles and geotextile-related products – Determination of water | March, 2024 | _ | |
| | | [* | | 1 | numbering |
| | Reviewed In: 2024 | flow capacity in their plane | | 1 | |
| 59 | ISO 12958 : 2010 IS 17360 : 2020 | Gangunthatian Caranina tast | | + | Identical under single |
| 39 | | Geosynthetics – Screening test | | _ | _ |
| | ISO 13438 : 2018 | method for determining the | | 1 | numbering |
| | ISO 13438:2018 | resistance of geotextiles and | | 1 | |
| | | geotextile-related products to | | 1 | |
| | | oxidation | | + | + |
| | | | | | |

| 60 | IS 17363 : 2020 | Geotextiles and geotextile-related | - | Identical under single |
|------|-------------------------------------|---|---|------------------------|
| | ISO TR 12960 : | products – Screening test method | | numbering |
| | 1998 | for determining the resistance to | | |
| | ISO/TR 12960 | liquids | | |
| 61 | | Guidelines for the determination of | - | Identical under single |
| | ISO TR 20432 : | the long-term strength of | | numbering |
| | 2007 | geosynthetics for soil | | |
| | ISO/TR 20432:2007 | | | Y 11 |
| 62 | IS 17368 : 2020 | Geosynthetics – Determination of | = | Indigenous |
| | | damage to geosynthetic caused | | |
| - 62 | IC 172(0 (D. +1) | during installation | | 71 2 1 1 1 1 |
| 63 | IS 17369 (Part 1): | Geotextiles and geotextile-related | - | Identical under dual |
| | 2020 | products – Strength of internal | | numbering |
| | | structural junctions Part 1 Geocells | | |
| 61 | ISO 13426-1:2019 IS 17369 (Part 2): | Geotextiles and geotextile-related | | Identical under single |
| 64 | , , , , , | | - | Identical under single |
| | 2020 ISO 13426-2 : 2005 | products – Strength of internal | | numbering |
| | | structural junctions Part 2 | | |
| 65 | ISO 13426-2:2005 IS 17371 : 2020 | Geocomposites Geosynthetics – Geogrids for | 1 | Indiannous |
| 65 | 15 1/3/1 : 2020 | | 1 | Indigenous |
| | | flexible pavements – Specification | | |
| 66 | IS 17372 : 2020 | Geosynthetics – Polymeric | | Indigenous |
| 66 | 13 1/3/2 . 2020 | strip/geostrip used as soil | = | indigenous |
| | | reinforcement in retaining | | |
| | | | | |
| 67 | IS 17373 : 2020 | structures – Specification | 2 | Indiannous |
| 07 | 15 1/3/3 : 2020 | Geosynthetics - Geogrids used in reinforced soil retaining structures | 2 | Indigenous |
| | | - Specification | | |
| 68 | IS 17374 : 2020 | Geosynthetics – Reinforced HDPE | | Indiannous |
| 08 | 15 17574 : 2020 | membrane for effluents and | - | Indigenous |
| | | | | |
| | | chemical resistance lining – Specification | | |
| 69 | IS 17420 : 2020 | Geosynthetics – Index test | | Identical under dual |
| 09 | ISO 10722 : 2019 | procedure for the evaluation of | - | numbering |
| | | mechanical damage under repeated | | numbering |
| | 150 10722.2017 | loading – Damage caused by | | |
| | | granular materials (Laboratory test | | |
| | | method) | | |
| 70 | IS 17421 : 2020 | Geosynthetics – Identification on | _ | Identical under single |
| ' | ISO 10320 : 2019 | site | | numbering |
| | ISO 10320:2019 | Site | | numbering |
| 71 | IS 17483 (Part 1): | Geosynthetics - Geocells - | 2 | Indigenous |
| , - | 2020 | Specification (Part 1) Load | _ | mangenous |
| | 2020 | Bearing Application | | |
| | | Bearing rippireation | | |
| 72 | IS 17483 (Part 2): | Geosynthetics - Geocells - | 2 | Indigenous |
| ~~ | 2020 | Specification (Part 2) Slope | _ | |
| | | Erosion Protection Application | | |
| | | | | |
| 73 | IS 17880 : 2022 | Geosynthetics - Synthetics Polymer | - | Indigenous |
| | | Rope Gabions for Coastal and | | 6 |
| | | Waterways Protection - | | |
| | | Specification | | |
| 74 | IS 18309 : 2023 | Geosynthetics- Prefabricated | - | Indigenous |
| | | Vertical Drains for Quick | | <i>U</i> |
| | | Consolidation for Very Soft Plastic | | |
| | | Soil - Specification | | |
| 75 | IS 18591 : 2024 | Geosynthetic Reinforced Soil | - | Indigenous |
| I | I | l ' | | l |

| I | Structures - Code of Practice | | | | | |
|---------|---------------------------------|--|--|--|--|--|
| | Structure | es - Code of Practice | | | | |
| | | Ctandarda undar Davalanment | | | | |
| | | Standards under Development | | | | |
| | | Projects Approved | | | | |
| SI. No. | Doc No. | Title | | | | |
| | | No Records Found | | | | |
| | | Preliminary Draft Standards | | | | |
| SI. No. | Doc No. | Title | | | | |
| | | No Records Found | | | | |
| | | Drafts Standards in WC Stage | | | | |
| SI. No. | Doc No. | Title | | | | |
| | | No Records Found | | | | |
| | | Draft Standards Completed WC Stage | | | | |
| SI. No. | Doc No. | Title | | | | |
| 1 | TXD 30 (22876) | Geosynthetics-Geotextile Tubes for Coastal and Waterways Protection - Specification | | | | |
| 2 | TXD 30 (25076) | Geosynthetics - Geotextiles for Drainage Separation Filtration Erosion Control and Stabilization Applications - Specification | | | | |
| 3 | TXD 30 (25136) | Geotextiles - Methods of Test Part 2 Determination of Resistance to the Exposure of Ultraviolet Light Moisture and Heat Xenon-Arc Type Apparatus | | | | |
| 4 | TXD 30 (25137) | Geosynthetics - Method for Determination of Trapezoid Tearing Strength | | | | |
| 5 | TXD 30 (25138) | Geosynthetics - Method for Determination of Apparent Opening Size by Dry Sieving Technique | | | | |
| 6 | TXD 30 (25139) | Geotextiles - Determination of Abrasion Resistance | | | | |
| 7 | TXD 30 (25140) | Geosynthetics - Sampling and Preparation of Test Specimens | | | | |
| 8 | TXD 30 (25141) | Geotextiles and Geotextile Related Products - Determination of Water Permeability Characteristics Normal to the Plane Without Load | | | | |
| 9 | TXD 30 (25142) | Geosynthetics - Determination of Friction Characteristics Part 1 Direct Shear Test | | | | |
| 10 | TXD 30 (25143) | Geosynthetics - Dynamic Perforation Test Cone Drop Test | | | | |
| 11 | TXD 30 (25914) | Textiles - Coir Non-woven Stitched Composite Geotextiles for Erosion Control Applications - | | | | |
| | | Specification | | | | |
| | Finalized Draft Indian Standard | | | | | |
| SI No | Doc No | Title | | | | |

| | Finalized Draft Indian Standard | | | | |
|---------|---------------------------------|--|--|--|--|
| SI. No. | SI. No. Doc No. Title | | | | |
| | No Records Found | | | | |

| Finalized Draft Indian Standards under Print | | | | | |
|--|-----------------------|--|--|--|--|
| SI. No. | SI. No. Doc No. Title | | | | |
| | No Records Found | | | | |

Total Published Standards:73 Total Standards Under development:11

Aspect Wise Report

Product: 21 Code of Practices: 10 Methods of Test: 37 Terminology: 1 Dimensions: 0

System Standard : 0 Safety Standard : 0

Others: 5 Service Specification: 0

 ${\bf Process\ Specification:0}$

Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

| SI. No. | IS No. & Year | Title |
|---------|-------------------------|---|
| 1 | IS 13162 (Part 5): 1992 | Geotextiles - Methods of Test - Part 5 Determination of Tensile Properties Using a Wide Width |
| | Reviewed In: 2016 | Strip |
| 2 | IS 14715 : 2000 | Woven jute geotextiles - Specification |
| | Reviewed In: 2019 | |
| 3 | IS 15909 : 2015 | PVC Geomembranes for Lining - Specification Second Revision |
| | | |
| | ISO 7240-29 | |

Annexure-II :List of Indian Product Standards

| SI. No. | IS No. & Year | Title |
|---------|---------------------------------------|--|
| 1 | IS 14715 (Part 1): 2016 | Jute geotextiles - Part 1 Strengthening of sub-grade in roads - Specification second revision |
| | | |
| | Reviewed In: 2020 | |
| 2 | IS 14715 (Part 2): 2016 | Jute geotextiles - Part 2 Control of bank erosion in rivers and waterways - Specification second |
| | D : 11 2020 | revision |
| 2 | Reviewed In : 2020 IS 14986 : 2001 | |
| 3 | | Guidelines for application of jute geotextile for rain water erosion control in road and railway embankments and hill slopes |
| 4 | Reviewed In: 2023 IS 15869: 2020 | Textiles Open weave coir Bhoovastra Specification first revision |
| 4 | 15 13809 : 2020 | Textiles Open weave con biloovastia Specification first revision |
| | | |
| 5 | IS 15910 : 2010 | Geosynthetics for highways - Specification |
| | Reviewed In: 2024 | Soosynmones for mgn ways specification |
| 6 | IS 16090 : 2013 | Geo-synthetics - Geo-textiles used as protection or cushioning materials - Specification |
| | Reviewed In: 2023 | |
| 7 | IS 16352 : 2020 | Geosynthetics High density polyethylene HDPE geomembranes for lining Specification first |
| | | revision |
| | | |
| 8 | IS 16362 : 2020 | Geosynthetics - Geotextiles used in subgrade stabilization in pavement structures - Specification |
| | | first revision |
| | 10.16201 2015 | |
| 9 | IS 16391 : 2015 | Geosynthetics - Geotextiles used in sub-grade separation in pavement structures - Specification |
| | Paviawad In : 2010 | |
| 10 | Reviewed In : 2019 IS 16392 : 2015 | Geosynthetics - Geotextiles for permanent erosion control in hard armor systems - Specification |
| 10 | 13 10392 . 2013 | Geosynthetics - Geotextiles for permanent crosson control in hard armor systems - specification |
| | Reviewed In: 2019 | |
| 11 | IS 16393 : 2015 | Geosynthetics - Geotextiles used in subsurface drainage application - Specification |
| | | Special Specia |
| | Reviewed In: 2019 | |
| 12 | IS 16653 : 2017 | Geosynthetics - Needle punched nonwoven geobags for coastal and waterways protection - |
| | | Specification |
| | Reviewed In: 2023 | |
| 13 | IS 16654 : 2017 | Geosynthetics - Polypropylene multifilament woven geobags for coastal and waterways protection |
| | | - Specification |
| | Reviewed In: 2023 | |
| 14 | IS 17371 : 2020 | Geosynthetics Geogrids for flexible pavements Specification |

| 15 | IS 17372 : 2020 | Geosynthetics Polymeric strip geostrip used as soil reinforcement in retaining structures Specification |
|----|-------------------------|---|
| 16 | IS 17373 : 2020 | Geosynthetics - Geogrids used in reinforced soil retaining structures - Specification |
| 17 | IS 17374 : 2020 | Geosynthetics Reinforced HDPE membrane for effluents and chemical resistance lining Specification |
| 18 | IS 17483 (Part 1): 2020 | Geosynthetics - Geocells - Specification Part 1 Load Bearing Application |
| 19 | IS 17483 (Part 2): 2020 | Geosynthetics - Geocells - Specification Part 2 Slope Erosion Protection Application |
| 20 | IS 17880 : 2022 | Geosynthetics - Synthetics Polymer Rope Gabions for Coastal and Waterways Protection - Specification |
| 21 | IS 18309 : 2023 | Geosynthetics- Prefabricated Vertical Drains for Quick Consolidation for Very Soft Plastic Soil - Specification |