



# TENUGHAT VIDYUT NIGAM LIMITED

2x210 MW Tenughat Thermal Power Station  
Jharkhand  
Dry Fly Ash Collection & Disposal System



## ANNEXURE - A

### LIST OF IS & IRC CODES REFERRED

IS 383	:	Specification for coarse & fine aggregates from natural sources for concrete.
IS 2386 (Part 1 to 8)	:	Method of Test for aggregates for concrete
IS 456	:	Code of practice for plain and reinforced concrete.
IS 712	:	Specification for building limes.
IS 3182	:	Specification for broken brick (burnt clay ) fine aggregate for use in lime mortar.
IS 269	:	Specification for 33 grade ordinary Portland Cement.
IS 455	:	Code of practice for Portland Slag Cement.
IS 1489	:	Specification for Portland Pozzolana Cement.
IS 8041	:	Specification for rapid hardening Portland Cement.
IS 8112	:	Specification for 43 grade ordinary Portland Cement.
IS 12269	:	Specification for 53 grade ordinary Portland Cement.
IS 8043	:	Specification for Hydrophobic Portland Cement



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IS 12330	:	Specification for Sulphate resisting Portland Cement.
IS 6452	:	Specification for high alumina cement for structural use.
IS 8042	:	Specification for White Portland Cement.
IS 3535	:	Methods of sampling Hydraulic Cement.
IS 4031 (Part 1 to 15)	:	Methods of test for Hydraulic Cement.
IS 4032	:	Method of Chemical Analysis of Hydraulic Cement.
IS 2645	:	Specification for Integral Cement Waterproofing Compounds.
IS 1599	:	Method of Bend Test.
IS 1608	:	Method of Tensile Testing of Steel Products.
IS 6925	:	Method of test for determination of Water Soluble Chlorides in concrete admixtures.
IS 432	:	Specification for mild steel and medium tensile steel bars and hard drawn steel wire for concrete reinforcement.
IS 1786	:	Specification for high strength deformed steel bars and wires for concrete reinforcement.



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IS 1566	:	Specification for hard drawn steel wire fabric for concrete reinforcement.
IS 280	:	Mild steel wire for general engineering purposes.
IS 2062	:	Structural steel (Standard Quality).
IS 1161	:	Steel Tubes for Structural purposes.
IS 5624	:	Foundation bolts.
IS 1363 - (Part 1 to 3)	:	Hexagon Head bolts, screws, nuts.
IS 2016	:	Plain washers.
IS 3063	:	Single coil rectangular section spring washers.
IS 1239 (Part 1&2)	:	Mild Steel Tubes and other wrought steel pipe fittings.
IS 1367	:	Technical supply conditions for threaded steel fasteners.
IS 1030	:	Carbon steel castings.
IS 3480	:	Flexible steel conduit for electrical wiring.
IS 2667	:	Fittings for rigid steel conduits for electrical wiring.
IS 9537 (Part 3)	:	Conduit for electrical installations - Rigid Plain conduits of insulating material.



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IS 6946	:	Flexible non-metallic conduits for electrical installations.
IS 3419	:	Fittings for rigid non-metallic conduits.
IS 5913	:	Methods of tests for Asbestos Cement Products.
IS 2098	:	Specification for asbestos cement building boards.
IS 2096	:	Specification for asbestos cement flat sheets.
IS 9537 (Part 2)	:	Conduit for electrical installations - Rigid steel conduits.
IS 2614	:	Method for sampling of fasteners.
IS 1592	:	Specification for asbestos cement pressure pipes.
IS 9627	:	Specification for asbestos cement pressure pipe (Light duty).
IS 6908	:	Specification for asbestos cement pipes and fittings for sewerage and drainage.
IS 1626 (Part 1 to 3)	:	Specification for asbestos cement building pipes & pipe fittings and roofing fittings
IS 459	:	Specification for unreinforced corrugated and semi corrugated asbestos cement sheets



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IS 1077	:	Specification for common burnt clay building bricks.
IS 3495 (Part 1 to 4)	:	Method of Test for burnt clay building bricks.
IS 3620	:	Specification for laterite stone block for masonry.
IS 1121	:	Method of test for determination of strength properties of natural building stone.
IS 1124	:	Method of test for determination of water absorption Sp. Gr. etc. of building stones
IS 1125	:	Method of test for determination of weathering of natural building stones.
IS 1126	:	Method of test for determination of durability of building stone.
IS 1127	:	Recommendation for dimensions and workmanship of natural building stones for masonry work.
IS 2185 ( Part-1)	:	Specification for concrete masonry unit Hollow and solid concrete blocks.
IS 2116	:	Specification for sand for masonry mortar
IS 1542	:	Specification for sand for plaster.
IS 2185 (Part-2)	:	Specn. for concrete masonry unit-Hollow and solid light weight concrete blocks.



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IS 2185 (Part-3)	:	Specification for concrete masonry unit - Auto claved Cellular Aerated concrete blocks.
IS 6041	:	Code of practice for construction of Auto claved Cellular concrete block masonry.
IS 6441 (Part 1 to 9)	:	Method of Test for Auto claved Concrete Products.
IS 3068	:	Specification for broken brick (burnt clay) coarse aggregates for use in lime concrete.
IS 2114	:	Code of practice for laying in-situ terrazo floor finish.
IS 460 (Part 1 to 3)	:	Specification for Test Sieves.
IS 1237	:	Specification for cement concrete flooring tiles.
IS 777	:	Specification for glazed earthen ware wall tiles.
IS 1129	:	Recommendation for dressing of natural building stone.
IS 1130	:	Specification for Marble (blocks, slabs and tiles).
IS 809	:	Specification for rubber flooring materials for general purposes.



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IS 3462	:	Specification for unbacked flexible PVC flooring.
IS 3461	:	Specification for PVC asbestos floor tiles
IS 2818	:	Indian Hessians.
IS 653	:	Linoleum sheets and tiles.
IS 5389	:	Code of practice for laying hard wood parquet and wood block flooring.
IS 210	:	Grey Iron Castings.
IS 2114	:	Code of practice for laying in-situ terrazzo finish.
IS 1198	:	Code of practice for laying of linoleum flooring.
IS 1003 (Part-2)	:	Specification for timber panelled & glazed shutters, windows and ventilator shutters.
IS 1141	:	Code of practice for seasoning of timber.
IS 1003 (Part-1)	:	Specification for timber panelled & glazed shutters - Door shutters.
IS 287	:	Recommendation for maximum permissible moisture content of timber used for different purposes.
IS 2202 (Part-1)	:	Specification for wooden flush door shutters (Solid core type).
IS 2191 (Part-1&2)	:	Specification for wooden flush door shutters



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		(cellular and hollow core type).
IS 3087	:	Specification for wood particle boards (Medium density) for general purposes.
IS 3478	:	Specification for high density wood particle boards.
IS 3097	:	Specification for veneered particle boards
IS 303	:	Specification for plywood for general purposes.
IS 1328	:	Specification for veneered decorative plywood.
IS 205	:	Specification for non-ferrous metal butt hinges.
IS 1341	:	Specification for steel butt hinges.
IS 362	:	Specification for parliament hinges.
IS 453	:	Specification for double acting spring hinges.
IS 3818	:	Specification for continuous (Piano) hinges.
IS 206	:	Specification for Tee and Strap hinges.
IS 281	:	Specification for mild steel sliding door bolts for use with padlocks.
IS 1019	:	Specification for rim latches.
IS 2681	:	Specification for non-ferrous metal sliding





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		door bolts for use with padlocks.
IS 204 (Part 1&2)	:	Specification for tower bolts - Ferrous and Non-ferrous metals.
IS 208	:	Specification for door handles.
IS 2209	:	Specification for mortice locks (vertical type).
IS 6607	:	Specification for rebated mortice locks (vertical type).
IS 1823	:	Specification for floor door stoppers.
IS 1837	:	Specification for fan light pivots.
IS 207	:	Gate and shutter hooks and eyes.
IS 6343	:	Specification of door closers (pneumatically regulated) for light door weighing upto 40 Kg.
IS 8756	:	Specification for ball catches for use in wooden Almirah.
IS 6315	:	Specification for floor springs (hydraulically regulated) for heavy doors.
IS 7197	:	Specification for Double action floor spring (without oil check) for heavy doors
IS 364	:	Specification for fan light catch.
IS 3828	:	Specification for ventilator chains.



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IS 363	:	Specification for hasp and staples.
IS 9899	:	Specification for hat, coat and wardrobe hooks.
IS 729	:	Specification for drawer locks, cup-board locks and box locks.
IS 3564	:	Specification for door closers (Hydraulically regulated).
IS 4351	:	Specification for steel door frames.
IS 419	:	Putty for use on window frames.
IS 5187	:	Specification for flush bolts.
IS 3847	:	Specification for mortice night latches.
IS 4621	:	Specification for indicating bolts.
IS 1038	:	Specification for steel doors, windows and ventilators.
IS 1977	:	Structural steel (ordinary quality).
IS 1361	:	Specification for steel windows for industrial buildings.
IS 7452	:	Hot rolled steel sections for doors, windows and ventilators.
IS 1948	:	Specification for aluminium doors, windows and ventilators.



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IS 1148	:	Specification for hot rolled rivet bars for structural purposes.
IS 1949	:	Specification for aluminium windows for industrial buildings.
IS 204 (Part 1)	:	Specification for tower bolts-non-ferrous metal.
IS 733	:	Wrought aluminium and aluminium alloy bars, rods and sections (for general engineering purposes).
IS 6248	:	Specification for metal rolling shutters and rolling grills.
IS 1081	:	Code of practice for fixing and glazing of metal doors, windows and ventilators.
IS 2339	:	Specification for Aluminium Paint for general purpose in dual containers.
IS 2835	:	Flat Transparent sheet glass.
IS 5437	:	Wired and figured glass.
IS 101 (Part 1 to 8)	:	Method of sampling and test for paints, varnishes and related products.
IS 2074	:	Ready mixed paint, air drying, red oxide zink chrome, priming.
IS 5410	:	Cement paint, colour as required.
IS 427	:	Distemper, dry, colour as required.



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IS 428	:	Distemper, oil emulsion, colour as required.
IS 348	:	French polish.
IS 5411 (Part 1&2)	:	Plastic emulsion paint.
IS 702	:	Industrial Bitumen.
IS 73	:	Paving Bitumen.
IS 217	:	Cut Back Bitumen.
IS 454	:	Specification for Digboi type cutback bitumen.
IS 5467	:	Specification for shellac Wax.
IS 3384	:	Specification for Bitumen primer for use in water proofing and damp proofing.
IS 290	:	Specification for Coal Tar Black Paint.
IS 341	:	Specification for Black Japan, Type A, B & C.
IS 1322	:	Specification for bitumen felts for water proofing and damp proofing.
IS 218	:	Specification for creosote oil for use as wood preservative.
IS 3037	:	Specification for Bitumen mastic for use in water proofing of roofs.



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IS 1580	:	Specification for Bituminous compound for water proofing and caulking purposes.
IS 8542	:	Specification for polish for wooden furniture paste.
IS 9862	:	Ready mixed paint, brushing etc.
IS 782	:	Specification for caulking lead.
IS 405 (Part 1&2)	:	Lead sheet and strips.
IS 5134	:	Bitumen impregnated paper.
IS 2849	:	Specification for non load bearing gypsum partition blocks.
IS 8591	:	Specification for floor polish paste.
IS 2095	:	Specification for gypsum plaster boards.
IS 77	:	Specification for linseed oil, boiled for paints.
IS 533	:	Gum Spirit of turpentine (oil of Turpentine).
IS 1504	:	Bees Wax.
IS 3536	:	Ready mixed paint, brushing, wood primer pink.
IS 8273	:	Specification for gypsum plaster for use in the manufacture of fibrous plaster board.



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IS 5871	:	Specification for bitumen mastic for tanking and damp proofing.
IS 651	:	Specification for salt glazed stoneware pipe and fittings.
IS 1729	:	Sand cast iron spigot and socket soil pipe.
IS 771 (Part 1 to 7)	:	Specification for glazed fire clay appliances.
IS 1230	:	Cast iron rain water pipes and fittings.
IS 774	:	Flushing cisterns for water closets and urinals.
IS 2548 (Part 1&2)	:	Specification for plastic seats and cover for water closet.
IS 1726	:	Specification for cast iron manhole cover and frames.
IS 1239 (Part 1&2)	:	Mild steel Tubes and fittings.
IS 4984	:	Specification for high density polyethylene pipes for potable water supplies: Sewerage and industrial effluents.
IS 2556 (Part 1 to 15)	:	Specification for vitreous sanitary appliances (vitreous china).
IS 7328	:	High density polyethylene materials.
IS 4985	:	Specification for unplasticised PVC pipes for potable water supplies.
IS 3076	:	Specification for low density polyethylene



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		pipe for potable water supplies.
IS 9762	:	Specification for polyethylene floats for ball valve.
IS 3395	:	Code of practice for fire safety of industrial buildings.
IS 7834 (Part 1 to 8)	:	Specification for injection moulded PVC fittings with solvent cement joint for water supplies.
IS 8008 (Part 1 to 7)	:	Specification for injection moulded HDPE fittings for potable water supplies.
IS 8360 (Part 1 to 3)	:	Specification for fabricated high density polyethylene fittings for potable water.
IS 784	:	Specification for prestressed concrete pipe.
IS 1703	:	Specification for copper alloy float valves (horizontal plunger type) for water supply fittings.
IS 12234	:	Specification for plastic equilibrium float valve for cold water services.
IS 778	:	Specification for copper alloy gate, globe and check valves for water works purposes.
IS 1536	:	Centrifugally cast (spun) iron pressure pipes.
IS 1537	:	Vertically cast iron pressure pipes for water, gas and sewage.



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IS 1538 (Part 1 to 23)	:	Sand cast iron spigot and socket soil, waste and ventilating pipes, fittings and accessories.
IS 3589	:	Electrically welded steel pipes for water, gas and sewage.
IS 781	:	Specification for cast copper alloy screw down bib taps and stop valves for water services.
IS 1239 (Part 1&2)	:	Mild steel tubes and fittings.
IS 779	:	Specification for water meters.
IS 1795	:	Specification for pillar taps for water supply purposes.
IS 1363 (Part 1 to 3)	:	Dimensions for screw thread run-outs and undercuts.
IS 2016	:	Plain washers.
IS 638	:	Sheet rubber jointing and rubber insertion jointing.
IS 4127	:	Code of practice for laying of glazed stoneware pipes.
IS 458	:	Specification for precast concrete pipes.
IRC 19	:	Standard specification and code of practice for water Bound macadam.
IRC 29	:	Tentative specification for 4 cm Asphaltic





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		concrete surface course.
IRC 15	:	Standard specification and code of practice for construction of concrete roads.
IS 6313	:	Code of practice for antitermite measures in building.
IS 1054	:	Dieldrin emulsifiable concentrates.
IS 1308	:	Aldrin dusting powders.
IS 6439	:	Hepta chlor emulsifiable concentrates.
IS 2632	:	Crotonaldehyde.
IS 1791	:	Specification for batch type concrete mixers.
IS 10262	:	Recommended guidelines for concrete mix design.
IS 7861 (Part 1)	:	Code of practice for extreme weather concreting - Recommended practice for hot weather concreting.
IS 1199	:	Methods of sampling and analysis for concrete.
IS 516	:	Method of test for strength of concrete.
IS 7861 (Part 2)	:	Code of practice for extreme weather concreting. Recommended practice for cold weather concreting.
IS 2502	:	Code of practice for bending and fixing of



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		bars for concrete reinforcement.
IS 2751	:	Recommended practice for welding of mild steel plain and deformed bars for reinforced construction.
IS 800	:	Code of practice for general construction in steel and deformed bars.
IS 816	:	Code of practice for use of metal arc welding.
IS 814	:	Covered electrodes for manual metal arc.
IS 3370 (Part 1&2)	:	Code of practice for concrete structures for the storage of liquids.
IS 2911 (Part 1 to 4)	:	Code of practice for design and construction of pile foundations.
IS 1343	:	Code of practice for prestressed concrete.
IS 1785 (Part 1&2)	:	Specification for plane hard drawn steel wires for prestressed concrete.
IS 2250	:	Code of practice for preparation and use of masonry mortars.
IS 1635	:	Code of practice for field slaking of building lime.
IS 2212	:	Code of practice for brick work.
IS 1597 (Part 1&2)	:	Code of practice for construction of stone masonry.



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IS 4101 (Part 1 to 3)	:	Code of practice for external facing and veneer.
IS 737	:	Wrought aluminium and aluminium alloys, sheet and strips ( for general engineering purposes ).
IS 2572	:	Code of practice for construction of hollow connect block masonry.
IS 1661	:	Code of practice for application of cement finishes.
IS 5766	:	Code of practice for laying of burnt clay brick flooring.
IS 5491	:	Code of practice for laying of in-situ granolithic concrete flooring topping.
IS 3316	:	Specification for structural granite.
IS 1196	:	Code of practice for laying bitumen mastic flooring.
IS 1195	:	Specification for bitumen mastic for flooring.
IS 3462	:	Specification for unbacked flexible PVC flooring.
IS 1198	:	Code of practice for laying fixing and maintenance of linoleum floor.
IS 848	:	Specification for synthetic resin adhesive for plywood.



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IS 4457	:	Specification for ceramic unglazed vitreous acid resisting tiles.
IS 851	:	Specification for synthetic resin adhesive for construction work (non structural) for wood.
IS 2202 (Part 1&2)	:	Specification for wooden flush door shutters.
IS 102	:	Ready mixed paint.
IS 1081	:	Code of practice for fixing and glazing of metal doors.
IS 6248	:	Specification for metal rolling shutters and rolling grills.
IS 1868	:	Anodic coatings on aluminium and its alloys.
IS 2065	:	Code of practice for water supply in buildings.
IS 2064	:	Code of practice for selection, installation and maintenance of sanitary appliances.
IS 7634 (Part 1 to 3)	:	Code of practice for plastic pipes.
IS 1742	:	Code of practice for building drainage.
IS 5330	:	Criteria for design of anchor blocks for penstocks with expansion joints.
IS 3114	:	Code of practice for laying of cast iron



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		pipes.
IS 783	:	Code of practice for laying of concrete pipes.
IRC-SP11	:	Hand book of quality control for construction of roads and run-ways.
IRC-63	:	Tentative guidelines for use of low grade aggregates and soil aggregate mixtures in road pavement construction.
IRC-60	:	Tentative guidelines for use of Lime Fly Ash Concrete as pavement base or sub-base.
IRC-74	:	Tentative guidelines for use of Lean Cement Concrete and lean concrete Fly Ash Concrete as pavement base or sub-base.
IS 6509	:	Code of practice for installation of joints in concrete pavement.
IS 1838 (Part 1)	:	Specification for performed filler for expansion joint in concrete pavements and structures.
IRC-43	:	Recommended practice for Tools, Equipment and appliances for concrete pavement construction.
IRC-15	:	Standard specifications and code of practice for construction of concrete road.



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IS 3036	:	Code of practice for laying lime concrete for a water proofed roof finish.
IS 1346	:	Code of practice for water proofing of roofs with bitumen felts.
IS 1609	:	Code of practice for laying damp proofing treatment using bitumen felt.
IS 4365	:	Code of practice for application of bitumen mastic for waterproofing of roofs.
IS 9103	:	Specification for admixtures for concrete.
IS 2645	:	Specification for integral cement water proofing compounds.
IS 1834	:	Specification for hot applied sealing compound for joint in concrete.
IS 278	:	Specification for Galvanized barbed wire for fencing.
IS 2721	:	Specification for Galvanized steel chain link fabric.
IS 280	:	Specification for Mild steel wire.
IS 4826	:	Specification for hot dipped galvanized coating on round steel wires.
IS 1200 (Part 1 to 28)	:	Method of measurement of building and Civil Engineering Works.
IS 4081	:	Safety code for blasting.



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IS 5916	:	Specification for cast iron gratings for drainage purposes.
IS 4130	:	Safety Code for demolition of building.
IS 3764	:	Safety code for excavation work.
IS 5121	:	Safety code for piling.
IS 4014 (Part 2)	:	Code of practice for steel tubular scaffolding.
IS 3696 (Part 1&2)	:	Safety code of scaffolds and ladders.
IS 6922	:	Criteria for safety and design of structures subject to underground blast.
IS 5499	:	Code of practice for construction of underground raid shelter.
IS 4138	:	Safety code for working in compressed air.
IS 7293	:	Safety code for working with construction machinery.
IS 8989	:	Safety code for erection of concrete framed structures.
IS 4756	:	Safety code for Tunneling work.
IS 7205	:	Safety code for erection of structural steel works.