BUREAU OF INDIAN STANDARDS

Program of Work

WRD 23: Measurement and Cost Analysis of Works for River Valley Projects

Scope: Standardization in the field of measurement and cost analysis of civil engineering works for

water resource projects.

Liaison:

		Publi	ished Standards		
S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10061:2024	Analysis of Unit Rate of		-	Indigenous
		Excavation of Tunnels by Cyclic			
		Drilling and Blasting � Proforma			
		(Second Revision)			
2	IS 10062:2024	Proforma for analysis of unit rate		-	Indigenous
		of quarrying rock by mechanical			
		means second revision of IS 10062			
3	IS 10160:2024	Proforma for analysis of unit rate		-	Indigenous
		of earthwork used in construction			
		of river valley projects (first			
<u> </u>	************	revision of IS 10160)			
4	IS 10421:2025	Proforma for Analysis of Unit Rate		-	Indigenous
		of Shuttering/ Formwork for			
<u> </u>	************	Concrete Works (First Revision)			
5	IS 10777:2025	Proforma for Analysis of Unit Rate		-	Indigenous
		of Rock Excavation by Mechanical			
		Means Including Blasting for Open			
	TO 11200 /P	Excavation (Second Revision)	37 1 2021		Y 1'
6	IS 11399 (Part	Guidelines for estimating output	March, 2021	2	Indigenous
	1):1985	norms of items of work in			
	Reviewed In: 2021	construction of river valley			
		projects : Part 1 earthwork			
<u> </u>	IC 11500 1005	excavation	N. 1 2021		T 1'
7	IS 11590:1995	Guidelines for working out unit	March, 2021	-	Indigenous
	Reviewed In: 2021	rate cost of the construction			
		equipment used for river valley			
8	IS 11638:2025	projects (First Revision) Proforma for Estimation of Unit			Indigenous
°	13 11038:2023			-	margenous
		Rate in Construction of			
		Embankment by Mechanical Means (Second Revision)			
9	IS 13418:2025	Proforma for Analysis of Unit Rate			Indigenous
9	13 13418;2023	of Grouting in River Valley		-	margenous
		Projects (First Revision)			
10	IS 13419:2025	Proforma for Analysis of Unit Rate		 	Indigenous
10	10 15717,2025	of Shotcreting/Guniting in River			margonous
		Valley Projects (First Revision)			
11	IS 14590:2025	Proforma for Analysis of Unit Rate		_	Indigenous
''	10 1 10 70.2023	1 101011110 101 1 11101yolo 01 Ollit Kato			margonous

I	l	of Dewatering (First Revision)		1	
12	IS 14749:2000	Proforma for analysis of unit rate	March, 2021	_	Indigenous
	Reviewed In: 2021	of underground excavation by			
		cyclic drilling and blasting			
13	IS 14835:2000	Guidelines for estimating unit rate	March, 2021	_	Indigenous
	Reviewed In: 2021	of items of works in construction			
	110 110 110 110 110 110 110 110 110 110	of rubble masonry for river valley			
		projects			
14	IS 4851:2024	Estimating Unit Rate of Concrete		-	Indigenous
* .	15 105112021	Used in Mechanized Construction			margenous
		of River Valley Projects $\ddot{i}_{\xi}^{1/2}$			
		Proforma (Third Revision)			
15	IS 4852:2024	Estimating Unit Rate of Random		_	Indigenous
	10 1032.2021	Rubble Masonry Used in			margenous
		Construction of River Valley			
		Projects � Proforma (Third			
		Revision)			
16	IS 4877:1968	Guide for preparation of estimate	March, 2021	_	Indigenous
	Reviewed In: 2021	for river valley projects	·, — 		
17	IS 9401 (Part	Method of measurement of works	March, 2022	-	Indigenous
'	1):1999	in river valley projects (Dams And	, •		<i>6</i>
	Reviewed In: 2022	Appurtenant Structures): Part 1			
		excavation for foundation (First			
		Revision)			
18	IS 9401 (Part	Method of measurement of works	December, 2022	-	Indigenous
	2):2003	in river valley projects (Dams And			C
	Reviewed In: 2022	Appurtenant Structures): Part 2			
		dewatering (First Revision)			
19	IS 9401 (Part	Method of measurement of works	December, 2022	-	Indigenous
	3):2003	in river valley projects (Dams And			
	Reviewed In: 2022	Appurtenant Structures): Part 3			
		grouting (Second Revision)			
20	IS 9401 (Part	Method of measurement of works	September, 2023	=	Indigenous
	4):2018	in river valley projects (dams and			
		appurtenant structures): Part 4			
	Reviewed In: 2023	Concrete work			
21	IS 9401 (Part	Method of measurement of works	May, 2024	-	Indigenous
	5):2014	in river valley projects (Dams And			
	Reviewed In: 2024	Appurtenant Structures): Part 5			
		masonry (First Revision)			
22	IS 9401 (Part	Method of measurement of works	December, 2022	-	Indigenous
	6):2013	in river valley projects (Dams And			
	Reviewed In: 2022	Appurtenant Structures): Part 6			
		ventilation pipes and other			
		embedded Materials (First			
	70.0101	Revision)			<u>.</u>
23	IS 9401 (Part	Method of measurement of works	December, 2022	-	Indigenous
	7):2013	in river valley projects (Dams And			
	Reviewed In: 2022	Appurtenant Structures): Part 7			
	IC 0401 /P	joints (First Revision)	E.L. 2027	1	T., 1'
24	IS 9401 (Part	Method of measurement of works	February, 2025	1	Indigenous
	8):1985	in river valley projects (Dams And			
	Reviewed In: 2025	Appurtenant Structures): Part 8			
25	IS 0401 (Dowt	instrumentation Method of measurement of works	Inly 2022		Indianana
23	IS 9401 (Part 9):1987		July, 2022	-	Indigenous
	9):1987 Reviewed In : 2022	in river valley projects (Dams And			
	Keviewed III: 2022	Appurtenant Structures): Part 9 lining			
26	IS 9401 (Part	Method of measurement of works in	July, 2022		Indigenous
20	15 2701 (1 a11	industrial of medical content works in	July, 2022		maigonous

I	10):1990	river valley projects(Dams - And		1	1
	Reviewed In: 2022	Appurtenant Structures): Part 10			
		formwork			
27	IS 9401 (Part	Methods of measurement of work	July, 2022	-	Indigenous
	11):1998	in river valley projects (Damsand			
	Reviewed In: 2022	Appurtenantstructures): Part 11			
		diaphragm walls (First Revision)			
28	IS 9401 (Part	Method of measurement of works	July, 2022	1	Indigenous
	12):1992	in river valley projects (Dams And			
	Reviewed In: 2022	Appurtenant Structures)			
29	IS 9401 (Part	Method of measurement of works	July, 2022	-	Indigenous
	13):1992	in river valley projects (Dams And			
	Reviewed In: 2022	Appurtenant Structures): Part 13			
20	7G 0 404 (D	earth and fill dams	X 1 2022		Y 11
30	IS 9401 (Part	Method of measurement of works	July, 2022	-	Indigenous
	14):1992	in river valley projects (Damsand			
	Reviewed In: 2022	Appurtenantstructures): Part 14			
21	IC 0401 (Dont	canal works	March 2025		To diagnoss
31	IS 9401 (Part 15):2010	Method of measurement of works	March, 2025	-	Indigenous
	Reviewed In : 2025	in river valley projects (Dams And Appurtenant Structures): Part 15			
	Reviewed III: 2023	investigation works - Drilling of			
		bore holes and exploratory drifting			
		and logging			
32	IS 9401 (Part	Method of measurement of works	March, 2021	<u> </u>	Indigenous
32	16):1999	in river valley projects (Dams And	With Cit, 2021		margenous
	Reviewed In: 2021	Appurtenant Structures): Part 16			
	110 / 10 / / 04 111 / 2021	tunneling			
33	IS 9401 (Part	Method of measurement of works	March, 2021	-	Indigenous
	17):1999	in river valley projects (Dams And	·		
	Reviewed In: 2021	Appurtenant Structures): Part 17			
		hydromechanical and related metal			
		works			
34	IS 9401 (Part	Method of measurement of work in	March, 2021	-	Indigenous
	18):2000	river valley projects (Dams And			
	Reviewed In: 2021	Appurtenant Structures): Part 18			
		sheet pilcng			
35	IS 9401 (Part	Method of measurement of works		-	Indigenous
	19):2022	in river valley projects Dams and			
	Reviewed In: 2022	appurtenant structures Part 19			
<u></u>		Electro Mechnical Works		1	
36	IS 9401 (Part	Method of measurement of works	December, 2022	-	Indigenous
	20):2013	in river valley projects (Dams And			
	Reviewed In: 2022	Appurtenant Structures): Part 20			
		protection works			

Standards under Development

	Projects Approved				
SI. No.	Doc No.	Title			
	No Records Found				

	Preliminary Draft Standards				
SI. No.	Doc No.	Title			
1	` /	METHODS OF MEASUREMENT OF WORK IN RIVER VALLEY PROJECTS DAMS AND APPURTENANT STRUCTURES PART 8 INSTRUMENTATION			

2	WRD 23 (27521) Revision	METHODS OF MEASUREMENT OF WORK IN RIVER VALLEY PROJECTS DAMS AND
	of: IS 9401:1992	APPURTENANT STRUCTURES PART 13 EARTH AND FILL DAMS
3	WRD 23 (27522) Revision	METHODS OF MEASUREMENT OF WORK IN RIVER VALLEY PROJECTS DAMS AND
	of: IS 9401:1992	APPURTENANT STRUCTURES PART 14 CANAL WORKS
4	WRD 23 (27523) Revision	METHODS OF MEASUREMENT OF WORK IN RIVER VALLEY PROJECTS DAMS AND
	of: IS 9401:2010	APPURTENANT STRUCTURES PART 15 INVESTIGATION WORKS DRILLING OF BORE
		HOLES AND EXPLORATORY DRIFTING AND LOGGING
5	WRD 23 (27524) Revision	METHODS OF MEASUREMENT OF WORKS IN RIVER VALLEY PROJECTS DAMS AND
	of: IS 9401:1999	APPURTENANT STRUCTURES PART 16 TUNNELING
6	WRD 23 (27525) Revision	METHODS OF MEASUREMENT OF WORK IN RIVER VALLEY PROJECTS DAMS AND
	of: IS 9401:1999	APPURTENANT STRUCTURES PART 17 HYDROMECHANICAL AND RELATED METAL
		WORKS
7	WRD 23 (28147) Revision	GUIDE FOR PREPARATION OF ESTIMATE FOR RIVER VALLEY PROJECTS
	of: IS 4877:1968	
8	WRD 23 (28148) Revision	GUIDELINES FOR WORKING OUT UNIT RATE COST OF THE CONSTRUCTION
	of: IS 11590:1995	EQUIPMENT USED FOR RIVER VALLEY PROJECTS
9	WRD 23 (28149) Revision	GUIDELINES FOR ESTIMATING OUTPUT NORMS OF ITEMS OF WORK IN
	of: IS 11399:1985	CONSTRUCTION OF RIVER VALLEY PROJECTS PART 1 EARTHWORK EXCAVATION

		Drafts Standards in WC Stage			
SI. No.	Doc No.	Title			
	No Records Found				

		Draft Standards Completed WC Stage
SI. No.	Doc No.	Title
1	WRD 23 (27473)	METHOD OF MEASUREMENT OF WORKS IN RIVER VALLEY PROJECTS DAMS AND
		APPURTENANT STRUCTURES PART 1 EXCAVATION FOR FOUNDATION
2	WRD 23 (27474)	METHOD OF MEASUREMENT OF WORKS IN RIVER VALLEY PROJECTS DAMS AND
		APPURTENANT STRUCTURES PART 9 LINING
3	WRD 23 (27477)	METHOD OF MEASUREMENT OF WORKS IN RIVER VALLEY PROJECTS DAMS AND
		APPURTENANT STRUCTURES PART 10 FORMWORK
4	WRD 23 (27478)	METHODS OF MEASUREMENT OF WORK IN RIVER VALLEY PROJECTS DAMS AND
		APPURTENANT STRUCTURES PART 11 DIAPHRAGM WALLS
5	WRD 23 (27479)	METHODS OF MEASUREMENT OF WORK IN RIVER VALLEY PROJECTS DAMS AND
		APPURTENANT STRUCTURES PART 12 TOPOGRAPHICAL SURVEYS

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

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

Total Published Standards:36 Total Standards Under development:14

Aspect Wise Report

Product: 0
Code of Practices: 35
Methods of Test: 0
Terminology: 0
Dimensions: 0
System Standard: 0

Safety Standard : 0

Others: 1

Service Specification: 0 Process Specification: 0

Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 9401 (Part 15/Sec	Method of measurement of works in river valley projects Dams and appurtenant structures Part 15
	1):1993	Investigation works Section 1 Drilling of bore holes
	Reviewed In: 2007	
2	IS 9401 (Part 15/Sec	Method of Measurement of Works in River Valley Projects dams and appurtenant structures - Part
	2):1992	15 Investigation Works - Section 2 Exploratory Drifting
	Reviewed In: 2007	

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
	No Records Found	