

BUREAU OF INDIAN STANDARDS



BENGALURU BRANCH LABORATORY

Ref.: BNBL/ IS 13488 Date: 04.10.2023

Below are the details of test facility created by Mechanical Section of BNBL and the same is for information of all ROs/ BOs/ Laboratories and Departments of BIS.

1.	I.S. No.	13488:2008					
2.	Product	Irrigation Equipment - Emitting Pipe Systems					
3.	Test(s) with clause No. for which facility has	All Tests					
	been created.						
4.	Type/ Size/ Grade/ Variety for which test	Nominal Diameter: 12 mm, 16 mm, 20 mm,					
	facility has been created.	25 mm					
		Class: 1, 2, 3, 4.					
5.	Test Section	Mechanical and Chemical					
6.	Major equipment(s) procured for creation of	 Emission Rate Test Rig. 					
	test facility.	2. Test Rig for Resistance to Tension at					
		Elevated Temperature.					
		3. Go, No-Go Gauges.					
		4. Pull Out Apparatus.					
		5. Constant Temperature Bath for E.S.C.R.					
		Test.					
7.	Status of facility created	Complete					
8.	Test (s) with Clause No. for which facility yet	N.A.					
	to be created for complete testing.						
9.	Sample Size	30 m with 40 (Nos.) fittings					
10.	Testing capacity/ month	20 samples					
11.	Remarks	Nil					

In view of the above, all Regional/ Branch/ Laboratories are requested to send the samples to BNBL for testing as detailed above.

Siddesh K M T.A. (Lab.)

OIC (Mech.)

H (BNBL)

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भारतीय मानक ब्यूरो / Bureau of Indian Standards बैंगलोर शाखा कार्यालय प्रयोगशाला / Bengaluru Branch Laboratory

सन्दर्भ : BNBL/ MECH./ TC/ IS 13488

Testing Charges for IS 13488:2008 (Irrigation Equipment – Emitting Pipe Systems)

I. No.	Clause	Requirement /	Manhours	Manhour	Power	Cost of	Consumables	Total cost	Testing time	Sample	Total time	Remarks
	No.	Characteristic	spent in	cost of	consumption	power	cost	of test	for the	preparation/	for the	
			testing	testing	(if intensive)		(if significant)		purpose of	conditioning/	purpose	
					(kWh)		Rs.		time norms	curing time	of time	
										etc for the	norms	
										purpose of		
					Remark 1	Remark 1				time norms		
1	2	3	4	5=4xRs	6	7=6xRs 9	8	9=5+7+8	10	11	12=10+11	13
				300								
1	Cl. 10, IS 2530:1963	Carbon Black Content	2	600	3	27	0	627	2.5	0.5	3	
2	Cl. 16, IS 2530:1963	Carbon Black Dispersion	3	900	3	27	0	927	3.0	0	3	
3	8.1	Uniformity of Emission Rate	3	900	1	9	0	909	2.0	1	3	
4	8.2	Emission Rate of Emitting Unit as a										
		Function of Inlet Pressure	2	600	1	9	0	609	2.0	1	3	
5	8.3	Dimensions	2.5	750	0	0	0	750	2.5	0.5	3	
6	8.4	Resistance of Emitting Pipes to										
		Hvdrostatic Pressure.	5	1500	50	450	0	1950	48.0	2	50	
7	8.5	Resistance to Tension at Elevated										
		Temperature	2	600	1	9	0	609	1.5	0.5	2	
8	8.6	Resistance to Pull Out of Joints										
		Between Fitting and Emitting Pipe	1	300	0	0	0	300	1.0	1	2	
9	8.7	Resistance of PE Emitting Pipe to			-		-		-			
	J	Environmental Stress Cracking	3	900	50	450	500	1850	48.0	2	50	
10	8.8	Determination of Emitting Unit		1 000	30	1.00	- 500	1.500	.5.0	 	30	
	0.8	Exponent	2	600	0	0	0	600	2.0	0	2	
11	Prenai	ration of Test Report	2	600	0	0	0	600	0.0	0	2	
• •	Порш			000	<u> </u>	 	 	1 300	0.0	 		
		Total	27.5	8250	109	981	500	9731	112.5	8.5	123	

Cost of total manhours	Rs.	8250
Total electricity consumption:	Rs.	981
Total cost of consumables:	Rs.	500
Charges for preparation of test report	Rs.	600
Testing charges for the product:	Rs.	9731
Total time for the purpose of time norms	Hrs.	123

Remarks:

Siddesh K M T.A. (Lab.)

OIC (M)

HBNBL