

भारत सरकार/GOVERNMENT OF INDIA

जल शक्ति मंत्रालय/Ministry of Jal Shakti

जल संसाधन, नदी विकास एवं गंगा संरक्षण विभाग

Department of Water Resources, River Development & Ganga Rejuvenation



ISO 9001:2015

केन्द्रीय जल एवं विद्युत् अन्संधान शाला/Central Water & Power Research Station

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HYDRAULIC MACHINERY AND CAVITATION DIVISION TEST CERTIFICATE FOR PRESSURE DROP IN STRAINER

CERTIFICATE No: CWPRS/HMC/20-21/G - 004

TEST DATE: 03.07.2020

1	Test referred by	M/s Nisan Scientific Process Equipments (P) Ltd., Mumbai
2	Tested for	Client: M/s GE Global Parts and Products GmbH, Switzerland Customer: M/s KSB Limited Project: JAWA1, CCGTPP (1760MW)
3	Type of Strainer and Make	Basket Strainer & NSPEPL
4	Drawing No.	NS/BSTR/B44 Rev.01
5	Design Flow Rate of Strainer	493 m ³ /hr
6	Mesh Size	40 Mesh, 38 SWG
7	Inlet / Outlet Line Size	18" (450mm), 150#
8	Fluid media	Clear cold water
9	Test Flow Range	120 – 620 m³/hr
10	Method of flow measurement	Gravimetric Method with an uncertainty of + 0.3%
11	Pressure taps	At inlet and outlet nozzle pipes

RESULTS

Sr. No.	Flow Rate (m³/hr)	Head Loss across the strainer (kg/cm ²)
	100%	CLEAN STRAINER
1	121.826	0.0021
2	238.540	0.0055
3	374.077	0.0119
4	493.598	0.0189
5	620.092	0.0263
	50% CL	OGGED STRAINER
1	120.833	0.0017
2	238.672	0.0048
3	384.103	0.0102
4	494.364	0.0166
5	607.042	0.0256

Note:

- 1. The graph indicates head loss across the strainer in 100% clean & 50% clogged conditions at different flow rates.
- 2. This certificate refers only to the particular strainer tested under the stated condition of test.
- 3. Only the original certificate and associated graph duly stamped be considered as authentic.
- Head Loss at 493 m³/hr in 100% clean is 0.0183 kg/cm² and in 50% clogged is 0.0165 kg/cm².

TEST PARTICIPANTS

TESTED BY CWPRS	WITNESSED BY
Shri T. K. Sahu, ARO	Shri Pratik Karekar, Q. C. Engineer, M/s Nisan Scientific Process
Shri R. A. Kadam, RA	Equipments

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