

MATERIAL TESTING FACILITIES
FOR
HIGHWAY SECTOR
IN
NATIONAL CAPITAL REGION



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MATERIAL TESTING FACILITIES FOR HIGHWAY SECTOR IN NATIONAL CAPITAL REGION

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(As on 26th October, 2010)

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35.	Banchor, Anil	Head- Business Expansion, ACC Concrete Limited, Mumbai
36.	Bhasin, Col. A.K.	Senior Joint President, M/s Jaypee Ganga Infrast. Corp Ltd., Noida
37.	Kumar, Ashok	Chief Engineer, Ministry of Road Transport & Highways, New Delhi

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3. Secretary General (Indoria, R.P.) Indian Roads Congress, New Delhi

Corresponding Members

1. Merani, N.V. Principal Secretary(Retd.), Maharashtra PWD, Mumbai

INTRODUCTION

Standard Specifications and Conditions of Contract provide for testing of materials and finished products. According to MORTH Specifications and IRC guidelines some material testing facilities are arranged at project site. Still it is necessary to get several tests done from outside. For this purpose, it is required to approach such laboratories which are reliable and approved by National Accreditation Board of Laboratories (NABL).

Engineers working for different projects need information about, availability of testing facilities with reliable laboratories. This document provides such list of laboratories and available testing facilities in NCR. The information contained in the document being dynamic in nature which is subject to constant up-gradation, every endeavor will be made to update the information of newly accredited laboratories in the subsequent documentation.

The draft document on Material Testing Facilities for Highway Sector in National Capital Region had been under the consideration of Human Resource Development Committee (G-2) for quite sometime. The draft was discussed by G-2 Committee in a number of meetings.

The Human Resource Development Committee (personnel given below) in its meeting held on 10.08.2010 finalized the document and recommended its submission to the General Specifications & Standards Committee (GSS) for consideration.

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S.K. Vij

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(Liansanga)

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(Sinha, A.V.)

Secretary General, IRC
(Indoria, R.P.)

The draft Document was approved by the General Sepcifications and Standards Committee (GSS) in its meeting held on 26.10.2010 and authorized the Secretary General, IRC to place the same before Council. The document was approved by the IRC Council in its 192nd meeting held on 12.11.2010. The document after incorporation of comments offered by the Council members was approved by the Convenor, GSS Committee for printing.

This document has been brought out by IRC with the disclaimer that these facilities are as on date of publishing of the document.

For preparation of this document credit goes to Shri Shishir Bansal, Superintending Engineer, Central PWD and Members of the Committee. He deserves appreciation for the hard work. Valuable support given by Shri S.P. Banwait, Retd. Additional D.G. CPWD is also acknowledged. All other members of the HRD Committee rendered guidance and we are grateful to them.

CHAPTER 1

TESTING OF MATERIALS IN HIGHWAY SECTOR

All projects in Highway Sector require extensive testing of the materials which is a pre-requisite for producing quality work. This requires several tests including physical, chemical, ultrasonic, X-ray and various other types of tests which normally cannot be carried out at project site laboratory without adding high-costs on the project. These tests also require trained and experienced personnel to conduct the required tests in controlled environment. Therefore, the need arises for depending on independent laboratories with facilities to conduct the tests as per IRC specifications and in controlled conditions like temperature, humidity etc.

2 In order to help engineers and contractors for the purpose of testing of materials, the compilation of NABL accredited laboratories in NCR region has been done by this Committee. Updated information of NABL accredited laboratories is though available on the website of NABL under category Laboratory Search; however every laboratory may not have the facility for carrying out all the required tests. This compilation gives information about available testing facilities in various reputed laboratories. These laboratories are both in Govt. and Private sectors. Most of the standards and specifications required in Highway projects are met by these laboratories. However, depending on specific requirements, owner of the projects may approve some more laboratories for their projects. These laboratories can be in the Public Sector or Private Sector. For laboratories in the private sector, the past record and reputation of the laboratory must invariably be given due consideration. The infrastructure in these laboratories can be inspected before they are short-listed for testing.

3 The name of the laboratories with addresses and details of contact persons are given in Chapter 2, while the details of testing facilities are given in Chapter 3. The testing facilities are given in tabular form. First Column shows the name of tests along with the reference of the standards. Other Columns show the name of laboratories and wherever such facility is available; it is shown with “√” mark.

4 This compilation, it is expected, will be useful for selecting proper laboratory at convenient distance, from the project site. This will in turn help in achieving required quality control in Highway projects.

CHAPTER 2

LIST OF LABORATORIES IN NCR

1. AES LABORATORIES (P) LTD.

B-118 Phase II
Noida U.P. 201304
Tel: 91-120-2562645, 3078068
FAX: 91-120-2568366
Email: support@aeslabs.com

2. Apex Assessment Labs Pvt. Ltd.

Lab: Plot No. 7, Anand Industrial Estate,
Behind ITS, Mohan Nagar,
Ghaziabad – 201003 (U.P.)
Reg. Office: 909, Hemkunt House,
Rajendra Place, New Delhi - 110008
Tel: 0120-3241669
Mobile: 09871189763
FAX: 0120-2941902
Email: apexlabs_909@rediffmail.com

3. BALAJI ANALYTICAL LABORATORIES

FCA-1556, SGM Nagar, NIT
Faridabad, Haryana,
PIN – 121001 (Haryana).
Tel: 09810738568, 9312089440, 09968108051, 09718358568, 69, 70
FAX: 0129-4057220
E mail: rahul_lab@yahoo.co.in

4. BHARAT TEST HOUSE

109, 1st Floor, Anupam Bhawan,
Azadpur, New Delhi – 110033
Tel: +91-11-27672629, 27675696, 27675900
FAX: +91-11-27681204
Email: bthinfo@bharattesthouse.com
Website: www.bharattesthouse.com

5. BUREAU OF INDIAN STANDARDS

Plot No. 20/9, Site IV,
Sahibabad Industrial Area,
Sahibabad – 201010,
Distt. Ghaziabad (U.P.)
Tel: 0120-4177100 (epabx)
FAX: 0120-2776663
Email: cl@bis.org.in
Website: www.bis.org.in

6. CENGRS GEOTECHNICA PVT. LTD.

B – 3 / 87, Safdarjung Enclave,
New Delhi – 110029, INDIA
Tel: +91-120-4206771
FAX: +91-120-4206775, 91-11-26193985
Email: cengrs@gmail.com
Website: www.cengrs.com

7. CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY

(Ministry of Chemicals & Fertilizers, Govt. of India)
G.T. Road, Siwah,
PANIPAT – 132108 (Haryana)
Tel: +91-180-3297993,
FAX: +91-180-2565097
Email: cipetpanipat@yahoo.co.in
Website: www.cipet.gov.in

8. CENTRAL ROAD RESEARCH INSTITUTE

Delhi-Mathura road,
P.O. CRRI,
New Delhi – 110020
Tel: 91-11-26921535, 26932601
FAX: 91-11-26845943 (Director's Office), 91-11-26830480 (COA's Office)
Email: root@crridom.org, root@cscrri.ren.nic.in
Website: <http://www.crridom.org>
Email: pknanda@crridom.org
Contact person: Dr. S. Gangopadhyay, Director;
Tel: 26848917, 26823437

9. DELHI TEST HOUSE

A-62/3, G.T. Karnal Road,
Industrial Area Phase-I,
New Delhi-110033
Tel: 91-11-27427672, 27437327, 27435509
FAX: 91-11-27435509, 27456917
E mail: deltest@bol.net.in
Website: www.delhitesthouse.com
Contact person: Mr. M. C. Goel, Director
Marketing Manager: Mr. Paras Nath

10. ENKAY Testing Technologies Ltd.

536, Udyog Vihar, Phase V,
Gurgaon, Haryana (India)
Tel: 0124-3079000
FAX: 0124-3079021
Email: info@enkay.co.in
Website: www.enkay.co.in

11. GAIL (INDIA) LIMITED

Gail Polymer Technology Centre,
B-35/36, Sector – 1,
Noida, UP - 201301
Tel: +91-0120-2549155/156, 2549310
FAX: 011-26185941

12. INDIAN INSTITUTE OF TECHNOLOGY, DELHI

Industrial Research & Development Unit
Hauz Khas, Outer Ring Road
New Delhi
Tel: 91-11-26597194
FAX: 91-11-26854715
Website: www.iit.ernet.in
Email: irdadmin@ird.iitd.ac.in

13. MERITORIOUS LABORATORIES

4/119, Subhash Nagar, (Park Side)
New Delhi - 110027
Tel: 011-25138486, 9868219779
Email: meritoriouslaboratories@yahoo.co.in
Website: www.meritoriouslab.com

14. MSME TESTING CENTRE

Ministry of Micro, Small & Medium Enterprise
Government of India, (Northern Region)
Shahid Capt, Gaur Marg, Okhla,
New Delhi – 110020
Tel: 91-11- 26312671
FAX: 91-11-26847973,
E-mail: ddc@rtcnr.gov.in
Website: www.rtcnr.gov.in
Contact person: Sh P.K.Panigrahi, Dy. Director (Admn./ Customer Cell)

15. NATIONAL TEST HOUSE (Northern Region)

Ministry of Consumer Affairs, Food & Public Distribution
Government of India,
Department of Consumer Affairs,
Kamla Nehru Nagar,
Ghaziabad – 201002
Tel: 0120-2960082, 2789813, 906
FAX: 0120-2789883, 2960082
Email: nthnr@rediffmail.com
Website: www.nth.gov.in

16. NATIONAL TESTING LABORATORY

249-A, Sant Garh,
Near Keshopur Depot,
Outer Ring Road,
New Delhi – 110018
Tel: 011-32469295, 28334811
FAX: 011-28334812
Email: ntldelhi@yahoo.co.in

17. NATIONAL COUNCIL FOR CEMENT & BUILDING MATERIAL

34 K.M. Stone, Delhi - Mathura Road (NH-2),
Ballabgarh,
Haryana – 121004
Tel: 91-129- 2242051– 56, 2246174-75
FAX: 91-129-2242100, 2246175
Email: nccbm@vsnl.com, info@ncbindia.com
Website: www.ncbindia.com

18. NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION

Sector – 23, Rajnagar,
Ghazibad – 201002 (India)

Tel: 0120-2786434/451, 2783334/586/592/638

FAX: 0120-2783596

Contact person: Sh. Rajendra Kumar Gaur, Assistant Director & Quality Manager
ISO/IEC 17025:2005

19. REGIONAL TESTING CENTRE (NR)

Shaheed Capt. Gaur Marg, Okhla,
New Delhi – 110020

Tel: 91-11- 26314616, 26847973, 26312587, 26312671, 26317932

FAX: 91-11-26847973,

E-mail: rtcnr@nde.vsnl.net.in

Website: [www.rtcnr.org](http://www rtcnr org)

Contact person: Sh A.K.Gogia, AIA & Director

20. S. G. ANALYTICAL LABORATORY

H-48, Udyog Nagar, Rohtak Road,
Delhi – 110041

Tel: +91-11-25472287, 25472668

Email: sganalytical@yahoo.co.in

21. SPECTRO ANALYTICAL LABS LTD., NEW DELHI

E-41, Okhla Industrial Area,
Phase II, New Delhi 110020

Tel: 91-11-40522000, 41611000

FAX: 91-11-40503150, 40503151

E mail: kd@spectro.in

Website: [www.specto.in](http://www specto in)

Contact person: Shri Hari Nandan, Dy. Manager

22. SUNBEAM AUTO LIMITED

38/6 K.M Stone,
Delhi-Jaipur Highway,
Narsingpur, Gurgaon - 122 001

Tel: 91-124-5129200, 5129254, 5129246

FAX: 91-124-5129751 / 52

E mail: sunbeam@sunbeamauto.com, lab@sunbeamauto.com,
vsunbeam@del3.vsnl.net.in

Website: [www.sunbeamauto.com](http://www sunbeamauto com)

23. SGS India Pvt. Ltd.

Consumer Testing Services,
250 Udyog Vihar, Phase, IV,
Gurgaon – 122015, Haryana, India,
Tel: 91-124-2399990-98, Ext-6192; 91-9871799604
FAX: 91-124-2399766
Email: vikram_chauhan@sgs.com

24. SR. QUALITY ASSURANCE ESTT. (METALS)

Ministry of Defense
Murad Nagar,
Distt. – Ghaziabad (U.P.)
PIN – 201206
Tel: 01232-228910-13
FAX: 01232-225761
Email: sqaemmu-dgqa@nic.in

25. SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH

19, University Road,
Delhi 110007
Tel: 91-11-27667267, 27667860
FAX: 91-11-27667676, 27667207
Website: <http://www.shriraminstiute.org>
Email: sridlhi@vsnl.com
Contact person: Dr. R.K. Khandal

26. STANDARD TESTING LABORATORY

A-144/1, Wazirpur Industrial Area,
Delhi – 110052
Tel: +91-11-65178546, 42473253
FAX: +91-180-2565097
Email: standardtestinglaboratory@yahoo.com

27. STAR WORE (INDIA) LIMITED

21/4, Mathura Road,
Ballabgarh – 121004
(Haryana) – INDIA
Tel: 0129-4094247, 4094266, 4094280, 2241263/64.
FAX: 0129-2246765, 2241265
Email: swdc06@yahoo.co.in

28. XPLORER TESTING LABORATORY

Plot – 3, First Floor, Sarhaul,
Opp. – HIPA, Sector – 18,
Gurgaon – 122001
(Haryana)

Tel: +91-124-4388659

FAX: +91-124-4241962

Email: xplorer@xploreronline.com

Website: www.xploreronline.com

CHAPTER 3 TESTING FACILITIES AT DIFFERENT LABORATORIES IN NCR

Test Houses →	Tests ↓	Xplorer Testing Laboratory																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
AES	1) Coarse Aggregates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Balaji Analytical Laboratories	a) Particle Size & Shape	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bharat Test House	IS 383-1970																														
Bureau of Indian Standards	IS 2386 (Part I)-1963																														
Cengrs Geotechnica Pvt. Ltd.	b) Deleterious Materials																														
Central Institute of Plastics Engineering & Technology	IS 383-1970																														
CRRI	IS 2386 (Part II)-1963																														
DTH	c) Specific Gravity & Density																														
Enkay Testing Technologies Ltd.	IS 383-1970																														
Gail India Ltd.	IS 2386 (Part II)-1963																														
IITD	IS 383-1970																														
Meritorious Laboratories	IS 383-1970																														
National Test House (NR)	IS 383-1970																														
National Testing Laboratory	IS 383-1970																														
NCB	IS 383-1970																														
Northem India Textile Research Association	IS 383-1970																														
S.G. Analytical Laboratory	IS 383-1970																														
SBA	IS 383-1970																														
SAL	IS 383-1970																														
SGS India Pvt. Ltd.	IS 383-1970																														
Sr. Quality Assurance Est. (Metals)	IS 383-1970																														
SRI	IS 383-1970																														
Star Wire (India) Limited	IS 383-1970																														
Standard Testing Laboratory	IS 383-1970																														
Xplorer Testing Laboratory	IS 383-1970																														

Test Houses →	Tests ↓	IS 2386 (Part III)-1963		IS 383-1970		IS 2386 (Part IV)-1963		IS 2386 (Part V)-1963		IS 383-1970		IS 2386 (Part VI)-1963		IS 383-1970		IS 2386 (Part VII)-1963													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
AES	d) Mechanical Properties	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bharat Test House	e) Soundness	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Balaji Analytical Laboratories	f) Alkali Aggregate Reactivity	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
APEx Assessment Labs Pvt. Ltd.																													
Bureau of Indian Standards																													
Cengrs Geotechnica Pvt. Ltd.																													
Central Institute of Plastics Engineering & Technology																													
CRRI																													
DTH																													
Enkay Testing Technologies Ltd.																													
Gail India Ltd.																													
ITD																													
Meritorous Laboratories																													
MSME Testing Centre																													
NCB																													
Northern India Textile Research Association																													
RTC																													
S.G. Analytical Laboratory																													
SAL																													
SBA																													
SGS India Pvt. Ltd.																													
Sr. Quality Assurance Est. (Metals)																													
SRI																													
Standard Testing Laboratory																													
Star Wire (India) Limited																													
Xplorer Testing Laboratory																													

Test Houses →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	g) Petrography Examination	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IS 383-1970																											
	IS 2386 (Part VIII)-1963																											
	2) Fine Aggregates																											
	a) Particle Size and shape	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IS 383-1970																											
	IS 2386 (Part I)-1963																											
	b) Deleterious Materials	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IS 383-1970																											
	IS 2386 (Part II)-1963																											
	SRI																											
	SGS India Pvt. Ltd.																											
	Sr. Quality Assurance Est. (Metals)																											
	Standard Testing Laboratory																											
	Star Wire (India) Limited																											
	Xplorer Testing Laboratory																											

Test Houses →	Tests ↓	Test Results																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
AEs	c) Specific Gravity, Bulk Density, Water absorption and Surface Moisture	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Apex Assessment Labs Pvt. Ltd.	IS 383-1970																													
Balaji Analytical Laboratories	IS 2386 (Part III)-1963																													
Bharat Test House	d) Soundness	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bureau of Indian Standards	IS 383-1970																													
Cengrs Geotechnica Pvt. Ltd.	IS 2386 (Part V)-1963																													
Central Institute of Plastics Engineering & Technology	IS 383-1970																													
CRRI	IS 2386 (Part V)-1963																													
DTH	IS 383-1970																													
Enkay Testing Technologies Ltd.	IS 383-1970																													
Gail India Ltd.	IS 383-1970																													
Meritorous Laboratories	IS 383-1970																													
MSME Testing Centre	IS 383-1970																													
National Test House (NR)	IS 383-1970																													
National Testing Laboratory	IS 383-1970																													
NCB	IS 383-1970																													
Northern India Textile Research Association	IS 383-1970																													
RTC	IS 383-1970																													
S.G. Analytical Laboratory	IS 383-1970																													
SAL	IS 383-1970																													
SBIA	IS 383-1970																													
SGS India Pvt. Ltd.	IS 383-1970																													
SR. Quality Assurance Estt. (Metals)	IS 383-1970																													
SRI	IS 383-1970																													
Standard Testing Laboratory	IS 383-1970																													
Star Wire (India) Limited	IS 383-1970																													
Xplorer Testing Laboratory	IS 383-1970																													

Test Houses →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
	b)	Physical Analysis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IS	3025(Part 17, 18)																											
	4)	Lime																											
	a)	CaCO ₃ content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IS	1195-1978																											
	b)	Sieve Analysis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IS	1195-1978																											
	5)	Earth																											
	a)	Atterberg Limits	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	IS	2720 Part 5																											

Test Houses →	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
		b) CBR	IS 2720 Part 16	c) Clay content	IS 2720 Part 4	d) OMC	IS 2720 Part 16	e) Density	IS 2720 Part 8	f) Grading	IS 2720 Part 4																				
AES	Apex Assessment Labs Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Bharat Test House	Bureau of Indian Standards	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Balaji Analytical Laboratories	Cengrs Geotechnica Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Central Institute of Plastics Engineering & Technology	Central Institute of Plastics Engineering & Technology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
DTH	DTH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Gail India Ltd.	Enkay Testing Technologies Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IITD	Meterious Laboratories	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NCB	National Test House (NR)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RTC	Northem India Textile Research Association	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAL	S.G. Analytical Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SBA	SGS India Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRI	Sr. Quality Assurance Estt. (Metals)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Standard Laboratory	Star Wire (India) Limited	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xplorer Testing Laboratory	XSplorer Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Test Houses →	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		b) Dimension & Mass	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AES	c) Physical Properties	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
APex Assessment Labs Pvt. Ltd.	d) Elongation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bharat Test House	e) Relaxation Properties	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bureau of Indian Standards	IS 14268 - 1995	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cengrs Geotechnica Pvt. Ltd.	Central Institute of Plastics Engineering & Technology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DTH	CRRI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Elnakay Testing Technologies Ltd.	Gail India Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IIITD	Meritorious Laboratories	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSME Testing Centre	National Test House (NR)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NCB	National Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Northern India Textile Research Association	Northem India Textile Research Association	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RTC	S.G. Analytical Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAL	SBA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SGS India Pvt. Ltd.	Sr. Quality Assurance Estt. (Metals)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Star Wire (India) Limited	Standard Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xplorer Testing Laboratory	Xplorer Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Test Houses →	Tests ↓	Cement																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
AES	Apex Assessment Labs Pvt. Ltd.																												
Bharat Test House	Bureau of Indian Standards																												
Balaji Analytical Laboratories	Cengrs Geotechnica Pvt. Ltd.																												
Apex Assessment Labs Pvt. Ltd.	Central Institute of Plastics Engineering & Technology																												
AES	DTH																												
Gail India Ltd.	Enkay Testing Technologies Ltd.																												
IITD	Meritorious Laboratories																												
MSME Testing Centre	National Test House (NR)																												
NCB	National Testing Laboratory																												
RTC	Northern India Textile Research Association																												
SAL	S.G. Analytical Laboratory																												
SBA	SGS India Pvt. Ltd.																												
SRI	S.R. Quality Assurance Est. (Metals)																												
Star Wire (India) Limited	Standard Testing Laboratory																												
Xplorer Testing Laboratory																													

Test Houses →	AES	Apex Assessment Labs Pvt. Ltd.	Bharat Test House	Bureau of Indian Standards	Cengrs Geotechnica Pvt. Ltd.	Central Institute of Plastics Engineering & Technology	CRRI	DTH	Enkay Testing Technologies Ltd.	Gail India Ltd.	IITD	Meritorious Laboratories	MSME Testing Centre	National Test House (NR)	SG. Analytical Laboratory	SAL	SBA	SGS India Pvt. Ltd.	Sr. Quality Assurance Est. (Metals)	SRI	Standard Testing Laboratory	Star Wire (India) Limited	Xplorer Testing Laboratory					
	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
9) Concrete																												
(IRC :21, IS 456)																												
a) Mix Design	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b) Compressive Strength	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c) Flexural Test	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d) Permeability Test	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10) Plasticiser																												
IS 9103-1999																												
a) Water content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b) Compressive strength	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c) Flexural Strength	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d) Length change	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

11) Epoxy

E.I.P. Guidelines

Test Houses →	Tests 1																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
AES																											
Apex Assessment Labs Pvt. Ltd.																											
Balaji Analytical Laboratories																											
Bharat Test House																											
Bureau of Indian Standards																											
Centres Geotechnica Pvt. Ltd.																											
Central Institute of Plastics Engineering & Technology																											
CRRI																											
DTH																											
Enkay Testing Technologies Ltd.																											
Gail India Ltd.																											
IITD																											
Meritorious Laboratories																											
MSME Testing Centre																											
National Test House (NR)																											
NCB																											
National Testing Laboratory																											
Northem India Textile Research Association																											
RTC																											
S.G. Analytical Laboratory																											
SAL																											
SBA																											
SGS India Pvt. Ltd.																											
Sr. Quality Assurance Est. (Metals)																											
SRI																											
Standard Testing Laboratory																											
Star Wire (India) Limited																											
Xplore Testing Laboratory																											

12) Non Shrink Grout

ASTM C109-99

ASTM 469-94

BS 4551, 1998

- a) Compressive Strength
- b) Flexural Strength

Test Houses →	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	c) Time for expansion	✓																											
	13) Water Proofing Compounds																												
	IS 2645-1975																												
	a) Permeability	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	b) Setting Time	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	c) Compressive Strength	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	d) Chloride Content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	e) Sulphate Content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	14) Polysulphide Sealant																												
	IS 12118 (Part I)-1987																												
	a) Pot life/work life	✓																											

Test Houses →	Tests ↑	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		b) Adhesion & Tensile Modulus	c) Plastic deformation	d) Adhesion in Peel	e) Loss of mass after heat ageing	f) Standing	g)	h)	i)	j)	k)	l)	m)	n)	o)	p)	q)	r)	s)	t)	u)	v)	w)	x)	y)	z)	aa)	bb)	cc)
AES	Apex Assessment Labs Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Balaji Analytical Laboratories	Bharat Test House	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bureau of Indian Standards	Cengrs Geotechnica Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bharat Test House	Central Institute of Plastics Engineering & Technology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CRRI	DTH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Enkay Testing Technologies Ltd.	Gail India Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ITD	Metrological Laboratories	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSME Testing Centre	National Test House (NR)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NCB	National Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Northern India Textile Research Association	RTC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAL	S.G. Analytical Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SBA	SGS India Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SRI	Sr. Quality Assurance Estt. (Metals)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Star Wire (India) Limited	Standard Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xplorer Testing Laboratory		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Test Houses →	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		c)	d)	e)	f)	g)	h)	i)	16)	a)																			
AES	Shore 'A' Hardness	✓																											
Apex Assessment Labs Pvt. Ltd.	Tensile Strength	✓																											
Balaji Analytical Laboratories	Elongation at rupture	✓																											
Bharat Test House	Modulus at 100% elongation	✓																											
Bureau of Indian Standards	Tooling time	✓																											
Cengrs Geotechnica Pvt. Ltd.	Cured State	✓																											
Central Institute of Plastics Engineering & Technology	Base	✓																											
CRI																													
DTH																													
Enkay Testing Technologies Ltd.																													
Gail India Ltd.																													
IITD																													
Meritorious Laboratories																													
MSME Testing Centre																													
National Test House (NR)																													
National Testing Laboratory																													
NCB																													
Northern India Textile Research Association																													
RTC																													
S.G. Analytical Laboratory																													
SAL																													
SBA																													
SGS India Pvt. Ltd.																													
Sr. Quality Assurance Est. (Metals)																													
SRI																													
Standard Testing Laboratory																													
Star Wire (India) Limited																													
Xplorer Testing Laboratory																													

Test Houses →	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
		b) Water, percent by mass																												
IS 1211-1978	c) Flash Point, Cleveland open cup, IS 1209:1978	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IS 1205:1978	d) Softening point	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IS 1203:1978	e) Penetration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IS 1208:1978	f) Penetration Ratio	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IS 1208:1983	g) Ductility	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IS 1208:1983	h) Paraffin Wax Content,	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AES	Apx Assessment Labs Pvt. Ltd.																													
Bharat Test House	Bureau of Indian Standards																													
Cengrs Geotechnica Pvt. Ltd.	Cenrgs Geotechnical																													
CRRI	Central Institute of Plastic Engineering & Technology																													
DTH	DTI																													
Gail India Ltd.	Enkay Testing Technologies Ltd.																													
Metrofous Laboratories	IITD																													
MSME Testing Centre	National Test House (NR)																													
NCB	National Testing Laboratory																													
NCI	Northern India Textile Research Association																													
SAL	RTC																													
SBA	S.G. Analytical Laboratory																													
SGS India Pvt. Ltd.	SRI																													
SR. Quality Assurance Estt. (Metals)	Standard Testing Laboratory																													
Star Wire (India) Limited	Xplorer Testing Laboratory																													

Test Houses →	Tests ↓																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
AES																														
Apex Assessment Labs Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Balaji Analytical Laboratories																														
Bharat Test House																														
Bureau of Indian Standards																														
Cengrs Geotechnica Pvt. Ltd.																														
Central Institute of Plastics Engineering & Technology																														
CRRI																														
DTH																														
Enkay Testing Technologies Ltd.																														
Gail India Ltd.																														
IIID																														
Meritorious Laboratories																														
MSME Testing Centre																														
National Test House (NR)																														
National Testing Laboratory																														
NCB																														
Northern India Textile Research Association																														
RTC																														
S.G. Analytical Laboratory																														
SAL																														
SBA																														
SGS India Pvt. Ltd.																														
Sr. Quality Assurance Estt. (Metals)																														
SRI																														
Standard Testing Laboratory																														
Star Wire (India) Limited																														
Xplore Testing Laboratory																														

Test Houses →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	Pre-stressing Hardware																											
	17) MS Sheathing																											
	IRC:8-2000 (Appendix – 1 A)																											
	a) Physical Test.	✓																										
	b) Chemical Tests.		✓																									
	18) Anchor Head																											
	DIN 17200																											
	a) Ultrasound	✓																										
	b) Dimension		✓																									
	c) Hardness			✓																								
	d) Chemical analysis				✓																							

Test Houses →	19) Bearing Plates	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	DIN 17200																												
	a) Dimension	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	b) Hardness																												
	20) Barrel																												
	DIN 17200																												
	a) Physical Test.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	b) Dimension Test																												
	c) Hardness Test																												
	d) Chemical Test																												
	21) Wedges																												
	Manufacturer's specifications																												
	a) Dimension	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Test Houses →	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		b) Surface Hardness	c) Load Test	Pipes																									
AES	Apex Assessment Labs Pvt. Ltd.																												
Balaji Analytical Laboratories	Bharat Test House																												
Apex Assessment Labs Pvt. Ltd.	Bureau of Indian Standards																												
Cengrs Geotechnica Pvt. Ltd.	Central Institute of Plastics Engineering & Technology																												
CRRI	DTH																												
Gail India Ltd.	Enkay Testing Technologies Ltd.																												
ITD	Meritorious Laboratories																												
MSME Testing Centre	National Test House (NR)																												
NCB	Northern India Textile Research Association																												
RTC	National Testing Laboratory																												
SAL	S.G. Analytical Laboratory																												
SBA	SGS India Pvt. Ltd.																												
SRIL	Sr. Quality Assurance Est. (Metals)																												
Star Wire (India) Limited	Standard Testing Laboratory																												
Xplorer Testing Laboratory																													

Test Houses →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
23) RCC Pipes																												
IS 458:1988																												
a) Wall Thickness	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
b) Three Edge Bearing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
c) Water absorption	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
d) Hydrostatic Pressure	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
e) Straightness	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
f) Reinforcement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
g) Cube Strength	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24) HDPE Pipes																												
IS 4984-1995																												
a) Hydraulic Characteristics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Test Houses →	Tests ↴	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		b) Reversion Test	c) Density	d) Melt Flow Rate (MFR)	e) Carbon Black Content & DIS persion																								
AES	Apex Assessment Labs Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Balaji Analytical Laboratories	Bharat Test House	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bureau of Indian Standards	Cenrgs Geotechnica Pvt. Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Central Institute of Plastics Engineering & Technology	Centrlal Institute of Plastics Engineering & Technology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
CRRI	DTH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Enkay Testing Technologies Ltd.	Enkay Testing Technologies Ltd.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Gail India Ltd.	IITD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Meritorious Laboratories	MSME Testing Centre	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
National Test House (NR)	National Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NCB	Northem India Textile Research Association	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAL	RTC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SBA	S.G. Analytical Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SGS India Pvt. Ltd.	SG Quality Assurance Est. (Metals)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Star Wire (India) Limited	Standard Testing Laboratory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xplorere Testing Laboratory	Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

25) Thermoplastic Paints

BS:3262 and MOST Specifications clause 803

- a) Binder contents
- b) Glass Beads
- c) Titanium Dioxide content
- d) Calcium Carbonate & Inert fillers

Test Houses →	Tests ↓	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		e) Yellow Pigments	f) Luminance (Daylight)	g) Drying Time	h) Skid Resistance	i) Cracking Resistance at low temperature	j) Softening Point	k) Flow resistance	l) Yellowness Index																				
AES	Apex Assessment Labs Pvt. Ltd.																												
Bharat Test House	Bureau of Indian Standards																												
Balaji Analytical Laboratories	Cengrs Geotechnica Pvt. Ltd.																												
Central Institute of Plastics Engineering & Technology	Central Geotechnical Pvt. Ltd.																												
CRRI	DTH																												
Gail India Ltd.	Enkay Testing Technologies Ltd.																												
IITD	Metrotrous Laboratories																												
MSME Testing Centre	National Test House (NR)																												
NCB	National Testing Laboratory																												
RTC	Northern India Textile Research Association																												
SAL	S.G. Analytical Laboratory																												
SBA	SGS India Pvt. Ltd.																												
SRIL	S.R. Quality Assurance Est. (Metals)																												
Star Wire (India) Limited	Standardard Testing Laboratory																												
Xplorer Testing Laboratory																													

26) Geotextile

ASTM D 4355

a) Thickness

b) Weight

Test Houses →	Tests ↑	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		e) Accelerated Ageing	f) Shear Modules	g) Ash Content																									
AES																													
Apex Assessment Labs Pvt. Ltd.																													
Balaji Analytical Laboratories																													
Bharat Test House																													
Bureau of Indian Standards																													
Cengrs Geotechnica Pvt. Ltd.																													
Central Institute of Plastics Engineering & Technology																													
CRRI																													
DTH																													
Enkay Testing Technologies Ltd.																													
Gail India Ltd.																													
IITD																													
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National Test House (NR)																													
National Testing Laboratory																													
NCB																													
Northem India Textile Research Association																													
RTC																													
S.G. Analytical Laboratory																													
SAL																													
SBA																													
SGS India Pvt. Ltd.																													
SR. Quality Assurance Est. (Metals)																													
SRI																													
Standard Testing Laboratory																													
Star Wire (India) Limited																													
Xplore Testing Laboratory																													

28) PTFE (Poly Tetra Fluro Ethylene)
BS:3784

BS:6564 Part 2 - 1991

- a) Form
- b) Density
- c) Tensile Strength
- d) Elongation
- e) Resistance to heat
- f) Dimensional stability

Test Houses →	AES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	Apex Assessment Labs Pvt. Ltd.																												
	Balaji Analytical Laboratories																												
	Bharat Test House																												
	Bureau of Indian Standards																												
	Cengrs Geotechnical Pvt. Ltd.																												
	Central Institute of Plastics Engineering & Technology																												
	CRRI																												
	DTH																												
	Enkay Testing Technologies Ltd.																												
	Gail India Ltd.																												
	IITD																												
	Meritorious Laboratories																												
	MSME Testing Centre																												
	National Test House (NR)																												
	National Testing Laboratory																												
	NCB																												
	Northern India Textile Research Association																												
	RTC																												
	S.G. Analytical Laboratory																												
	SAL																												
	SBA																												
	SGS India Pvt. Ltd.																												
	Sr. Quality Assurance Estt. (Metals)																												
	Standard Testing Laboratory																												
	Star Wire (India) Limited																												
	Xplorer Testing Laboratory																												

Test Houses →	Tests ↓	Elastomer Bearings																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Xploreer Testing Laboratory	IRC:83 part-II																										
Star Wire (India) Limited	a)	✓																									
Standard Testing Laboratory	b)	✓																									
SRI	c)	✓																									
Sr. Quality Assurance Est. (Metals)	d)	✓																									
SGS India Pvt. Ltd.	e)	✓																									
SBA	f)	✓																									
SAL	g)	✓																									
S.G. Analytical Laboratory																											
RTC																											
Northem India Textile Research Association																											
NCB																											
National Testing Laboratory																											
National Test House (NR)																											
MSME Testing Centre																											
Meritorious Laboratories																											
IITD																											
Gail India Ltd.																											
Enkay Testing Technologies Ltd.																											
DTH																											
CRII																											
Central Institute of Plastics Engineering & Technology																											
Cengrs Geotechnica Pvt. Ltd.																											
Bureau of Indian Standards																											
Bharat Test House																											
Balaji Analytical Laboratories																											
Apx Assessment Labs Pvt. Ltd.																											
AES																											

(The Official amendments to this document would be published by the IRC in its periodical, 'Indian Highways' which shall be considered as effective and as part of the code/guidelines/manual, etc. from the date specified therein)