



# COSMO ANALYTICAL LAB

C-423, SECTOR-10  
NOIDA ( U.P )

(**BIS** Approved & **NABL** Accredited Laboratory )

**Website** : [www.cosmoanalytical.com](http://www.cosmoanalytical.com)

**EMAIL** : [info@cosmoanalytical.com](mailto:info@cosmoanalytical.com), [cosmolabs.noida@gmail.com](mailto:cosmolabs.noida@gmail.com)

**Enclosed Documents :**

1. Intrduction Letter
2. Quality Policy
3. BIS Certificate
4. NABL Certificate
5. ISO Certificate
6. Registration Certificate
7. CPWD- Delhi Approval letter
8. DMRC Approvel Letter
09. Airport Authority of India
10. Our Client List

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## INTRODUCTION LETTER

Date :- .....

To,

.....  
.....

**Kind Attn.:-**

**SUB: - To the Empanelment of Testing Laboratory.**

Cosmo Analytical Lab is **BIS Approved and NABL** (National Accreditation Board for Calibration and Testing Laboratories) accredited lab in accordance to ISO/IEC: 17025-2017 and ISO: 9001 certified in disciplines of Mechanical and Chemical Testing

**Laboratory is providing testing services in following field**

- 1) Chemical Testing of Ferrous and Non-Ferrous alloys : By OES ( Spectro-Max-Germany)
- 2) Chemical Testing of Ferrous and Non-Ferrous alloys : By Wet Analysis
- 3) Mechanical Testing of Ferrous and Non Ferrous alloys: Hardness, Tensile, Bend tests  
(1000 KN, 400 KN, 50 KN, 5 KN)
- 4) Metallurgical Testing of Ferrous and Non Ferrous -Microscopes with image analysis  
Software'
- 5) Compression Testing
- 6) Building material and Road material testing
- 7) Rubber & Polymer (FTIR, MFI, Impact, Tensile)
- 8) Soil & Rock
- 9) Stone (Granite, Marble & Kota Stone)
- 10) Water
- 11) Wood & its Product

**Our lab is equipped with metallurgical , Building materials & Polymer testing  
Ferrous and Non Ferrous alloys.**

## **BUILDING MATERIALS :-**

- 1) **Cement** :-Chemical and Mechanical properties
- 2) **Aggregate (Coarse and Fine):** Sieve Analysis, Specific Gravity& Water Absorption, Impact value, Crushing Value, Abrasion value, Flakiness & Elongation index, Soundness, Bulk Density, Deleterious Material, Silt Content and Moisture Content. 10 % fine Value.Petrography, Alkali Aggregate Reactivity & Chemical Parameters.
- 3) **Bricks:** Dimension, Water Absorption, Compressive Strength, & Effloresce .
- 4) **Bitumen:** Penetration, Ductility, Softening Point, Flash & Fire Point, Binder Content, Solubility in Trichloroethylene.,
- 5) **Concrete Core & Cube:** Compressive Strength & Core Cutting.
- 6) **Concrete Beam:** Flexural Strength  
Concrete Split Tensile, Drying Shrinkage, Moisture Movement.
- 7) **Admixture:** Chemical and Physical
- 8) **TMT:** Chemical and Physical
- 9) **AAC Block:** Dimension, Compressive Strength, Density, Water Absorption, Drying Shrinkage
- 10) **Paver Block:** Compressive Strength, Water Absorption,
- 11) **Fly Ash:** Chemical and Mechanical properties
- 12) **Silica Fume:** Chemical and Mechanical properties
- 13) **Soil and Sub Base:** Atterberg Limits, Particle Size, Proctor Test, California Bearing Ratio (CBR) Value, Field Density
- 14) **Stone (Marble, Kota Stone & Granite)**
- 15) **Wood**
- 16) **Construction Water,**
- 17) **NDT Test:** (UPV, Rebound Hammer, UT. Dye Penetration Test).
- 18) **Bituminous Concrete, Job Mix Formula (GSB, WMM, BM, DBM, DBC),**
- 19) **Seamless Pipes, ERW Pipes Chemical and Physical Testing**
- 20) **Design Mix**
- 21) **Tiles**
- 22) **Structural Steel:** MS Angle, Pipe, ISMB, etc.

## Ferrous and Non Ferrous alloys metallurgical Testing

- 1) Chemical Composition-By OES
- 2) Macro Structure as per ASTM E-381 (C, S, R)
- 3) Micro structure; Ferrite and pearlite (Ferrite Banding)
- 4) Non Metallic Inclusions (As per ASTM E 45A, A,B,C and D Types)
- 5) Macro-Streaks (Step Down Test)
- 6) Grain Size ( ASTM no 6-8 at 100 X )
- 7) Hardness HRB, HRC and HBW
- 8) Jominy End Quench Test
- 9) Decarburization (Microscope + Micro vickers )
- 10) Distribution of Sulphur (Sulphur Print)
- 11) Ultrasonic Test
- 12) Magnetic Particle Inspection (Out Sourcing)
- 13) Mechanical Testing (U T M)
- 14) Hot Compression test (Hot Upset test -for forge-ability)
- 15) ) Chemical Composition-By Wet Analysis

## RUBBER & POLYMER:

- 1) **Rubber** : Identification (FTIR), Density, Ash Content, Hardness, Tensile Strength, Tear Strength, Compression Set, Elongation at Break,
- 2) **Plastics**: Identification (FTIR), Density, Ash Content, Hardness, Tensile Strength, Tear Strength, Compression Strength, Elongation at Break, Impact Testing. MFI, Flexural Properties.

## **More over we are providing testing facilities to following organizations:**

- 1) Delhi Metro Rail Corporation (DMRC)
- 2) RITES Limited
- 3) Rapid Metro
- 4) PWD Uttrakhand
- 5) Shapoorji Pallonji
- 6) CSIR
- 7) Indian Institute of Technology -DELHI
- 8) U.P State Bridge Corporation
- 9) Central Public Works Department (CPWD) -DELHI
- 10) Public works Department (PWD) –DELHI
- 11) Central Water housing Corporation
- 12) Doing work with NHAI, KRCL, PM MAP, BRO, AF STATION BAMRAULI  
ALLAHABAD & SURATGARH RAJSTHAN, MES IN JAMMU & KASHMIR.

## Major Testing Equipments : Metal

1. Spectrometer (OES) - Spectro Maxx
2. Portable XRF
3. U.T.M. - 1500 KN
4. U.T.M. - 1000 KN
5. U.T.M.- 400 KN
6. U.T.M.-50 KN
7. U.T.M.- 5KN
8. Hardness Rockwell / Vickers / Brinell
9. Impact Tester (Charpy/Izod)
10. Microscope
11. Profile Projectors
12. Micro Hardness Tester
13. Salt Spray Chambers
14. Dye Penetrate Test Kits
15. Ultrasonic Flaw Detector
16. Cupping Test Machine
17. Spring Compression Tester

## Building Materials :

1. Vibration Machine
2. Cement Autoclave
3. Water permeability App
4. Vicat Apparatus
5. Aggregate Impact
6. Aggregate Crushing Value App.
7. Loss Angles Abrasion Test App.
8. Bitumen Extractor
9. Standard Procter Test (Light&Heavy) App.
10. CBR Test Apparatus
11. . CTM - 300 Tons
12. Blain Air Permeability Apparatus
13. Bitumen Penetrometer
14. Core Cutter Machine
15. Softening Point App.
16. Ultrasonic Concrete Tester (Proceq)

17. Rebound Hammer
18. Humidity Chamber
19. Flash Point App.
20. Ductility Machine
21. Field Density (Sand Replacement) App.
22. Atterberg Limit App.
23. Vibrating Table
24. Concrete Mixture
25. Flow Table
26. Mortar Mixture

## **Rubbers & Plastics:**

1. Impact Tester (Charpy/Izod)
2. Melt Flow Apparatus
3. FTIR Spectrometer – Bruker
4. U.T.M.- 5KN
5. Digital Specific gravity Balance
6. Compression Set Tester
7. Hardness Tester (Shore A & Shore D)

Laboratory has a strong network of marketing team and we also provide services of collection of samples. we give main trust on customer satisfaction giving prompt, accurate and reliable results at very reasonable rates

Director of lab **Mr.N.K KHULLAR -B.Tech-Metallurgy-I.I.T.-Roorkee -1973** is having 44 years experience in the fields of Closed Die hot forging, heat treatment and metallurgical and Building Materials testing.

We here by request you to kindly include the name of our laboratory on your testing panels.

We assured you to serve you with dedicated spirit and passion.

Thanking You,

You're sincerely,  
For Cosmo Analytical Lab

**Mr. Narinder Kumar Khullar**  
(Technical Manager)  
Mobile No: 9818388925

**Mr.Shrawan Kumar Pandey**  
(Quality Manager)  
Mobile No. 7985377877

# COSMO ANALYTICAL LAB

## *Details of Registration /Accreditation of Lab*

1. Lab Registered under Indian Partnership Act 1932 (Registration No.GBN/0003555)
2. BIS Approved (OSL-CODE- 8167006, Valid until 15/01/2024)
3. Accredited by NABL - Certificate No. TC-6379, Valid until- 13/10/2024
4. ISO Certificate No. 110607
5. Approved by Delhi Metro Rail Corporation Ltd.
6. Approved by Airport Authority of India
7. Approved by CPWD Delhi
8. Approved by PWD-Uttarakhand
9. Approved by PWD-Delhi

(Certificate are Enclosed)

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## Quality Policy

COSMO ANALYTICAL LAB is committed to continual improvement of processes and services to achieve ongoing customer satisfaction. It is therefore our policy to:

- a) Professionally and effectively perform testing services to produce accurate and precise results.
- b) Provide quality service to customers by following International/National test methods such as ISO, BIS, ASTM etc.
- c) Consistently provide quality testing services that conform to customer and regulatory requirements.
- d) Ensure that all personnel are competent and qualified for the tasks they perform and that all personnel familiarize themselves with quality system documentation in order to implement the policies and procedures in their work.
- e) Training & Retaining competent personnel in our laboratory
- f) Executing laboratory activities impartially
- e) Consistently comply with ISO 17025: 2017 to ensure quality testing services, and to continually improve the effectiveness of the Quality Management System.

Date: 02.01.2019

  
**Kavita Khullar**  
(Managing Director)





भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

**BUREAU OF INDIAN STANDARDS**

(Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India)

मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली-110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi-110002

दूरभाष Phones : 2323 0131 / 2323 3375 / 2323 9402

वेबसाइट Website : [www.bis.org.in](http://www.bis.org.in)

Our Ref: LPPD/LRS/OSL-8167006

15-01-2021

M/s Cosmo Analytical Lab  
C-423, Sector-10,  
Gautam Budh Nagar,  
Noida-201301 (UP)

**Subject: Grant of Recognition of M/s Cosmo Analytical Lab, Noida**

Dear Sir,

The competent authority has decided to grant recognition to your laboratory for three years with effect from 14-01-2021 to 13-01-2024. The scope is enclosed as Annex-1.

All other terms and conditions of BIS LRS 2020 remain the same.

Thanking you,

Yours faithfully,

(Ajay Tewari)

Sc.D, LPPD

एलपीपीडी डायरी नं. ....  
LPPD Diary No. 688  
दिनांक .....  
Dated 15/01/2021

**DATA ON OUTSIDE RECOGNISED LABORATORIES**

w.e.f : from 2021/01/14 to 2024/01/13

**Annex-I**

**OSL CODE** 8167006  
**NAME** Cosmo Analytical Lab  
**ADDRESS** C-423, Sector-10  
Gautam Budh Nagar  
Noida 201301  
Uttar Pradesh

**CONTACT :** Mrs Kavita Khullar, Managing Director  
**TELEPHONE:** 9212097495  
**FAX:**  
**E-mail** [cosmolabs.noida@gmail.com](mailto:cosmolabs.noida@gmail.com)  
**REMARKS**

IS Number	Product	Testing Charge	Remark
1	IS 1077 : 1992 COMMON BURNT CLAY BUILDING BRICKS	Rs.4400/-	
2	IS 2062 : 2011 Hot Rolled low, medium and high tensile structural steel	Rs.14200/- (10% discount to BIS)	Cl.13 (Y-Groove crackability test (only grade E250C material having thickness 12mm and above)]



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**COSMO ANALYTICAL LAB**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

C-423 SECTOR 10, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

in the field of

**TESTING**

Certificate Number: TC-6379

Issue Date: 14/10/2022

Valid Until:

13/10/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : Cosmo Analytical Lab

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer





# Certificate of Registration

This is to certify that the  
Quality Management System  
of

## COSMO ANALYTICAL LAB

At

REG.OFFICE: C- 423, SECTOR – 10, NOIDA, UTTAR PRADESH, INDIA

Has been independently assessed and  
is compliant with the requirements of:

**ISO 9001-2015**

**Quality Management System**

For the following scope of activities:

**METALLURGICAL TESTING, CHEMICAL TESTING,  
MECHANICAL TESTING, WATER TESTING OF ALL PRODUCTS  
OF CIVIL & CONSTRUCTION TESTING**

**Certificate Number: 110607**

Validity of this certificate can be verified at [www.nficertifications.co.uk/verify](http://www.nficertifications.co.uk/verify)

Date of Initial Registration	22 <sup>ND</sup> December 2020
Date of This Certificate	19 <sup>TH</sup> December 2022
Certificate Expiry	19 <sup>TH</sup> December 2023
Recertification Due (subject to the company maintaining its system to the required standard)	19 <sup>TH</sup> December 2023

Authorised Signatory



CB-003



9001:2015



Certificate





फर्म निबन्धक, उत्तर प्रदेश के कार्यालय में

सर्वश्री मेसर्स/ **M/S COSMO ANALYTICAL LAB**  
**C 423 SECTOR 10 NOIDA UP 201301 GAUTAM BUDH NAGAR, Gautam Buddha**  
**Nagar ,201301**

के मामले में, मैं

एतद्वारा प्रमाणित करता हूँ कि निम्नांकित लेख्य, 1932 के इंडियन पार्टनरशिप ऐक्ट संख्या 9 के उपबन्धों के अनुसरण में आज दिन यथा विधि निविष्ट और निबद्ध किये गये हैं।

फर्म के ब्योरों का विवरण-पत्र ( फार्म 1 )

मेरे हस्ताक्षर और मुहर से आज के दिनांक **27/05/2019** को दिया गया।

**Digitally Signed By**  
**( subhash singh )**

फर्म निबन्धक

उत्तर प्रदेश।

शुल्क ₹0: 5000.00

संख्या : 00239/2019-2020

पंजीकरण संख्या: GBN/0003555

दिनांक : 27/05/2019

NARINDER KUMAR KHULLAR, साझेदार/Partner

मेसर्स/ M/S COSMO ANALYTICAL LAB

C 423 SECTOR 10 NOIDA UP 201301 GAUTAM BUDH NAGAR, Gautam Buddha Nagar  
,201301

को उनके पत्र-संख्या \_\_\_\_\_ दिनांक 09/04/2019 के संदर्भ में प्रेषित

**Digitally Signed By**  
**( subhash singh )**

फर्म निबन्धक

उत्तर प्रदेश।





भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA

Ref, No. AAI / RHQ-NR/ Lab Empanelment/2022/637

Dated: 07.04.2022

To,

**M/S COSMO ANALYTICAL LAB  
C-423, SECTOR-10, NOIDA, GAUTAM BUDH NAGAR,  
UTTAR PRADESH, INDIA**

Subject: Empanelment of material testing lab reg.

Dear Sir,

Reference is invited to your application **vide letter no. "NIL" dated 22.02.2022** for empanelment in Airports Authority of India of your Material testing laboratory.

In this connection, it is to inform that your laboratory has been approved for empanelment on the following conditions:

- 1) The empanelment is for conducting only those test for which NABL have accredited your material testing laboratory.
- 2) The period of empanelment will get terminated with the expiry of validity of NABL accreditation or **31.12.2023**, whichever is earlier.

Yours faithfully

General Manager (Engg.)-I  
Northern Region



Govt. of India  
O/o Additional Director General  
(Projects, Delhi)  
CPWD, Sewa Bhawan, R.K. Puram  
New Delhi -110066.  
Tel. No. 011-26104978, 26104016  
Email: deladg-prd@cpwd.gov.in

Through E-mail

भारत सरकार  
कार्यालय अपर महानिदेशक  
(परियोजनायें, दिल्ली)  
केंद्रीय लोक निर्माण विभाग सेवा भवन,  
आर.के.पुरम, नई दिल्ली-110066  
Tel. No. 011-26104978, 26104016  
ई मेल: deladg-prd@cpwd.gov.in



S.No. 23(32)/ADG(PRD)/2022/ 3215

Dated: 19 Sep, 2022

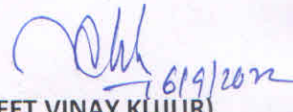
### Office Memorandum

विषय: Approval of **Cosmo Analytical Lab**, C-423, Sector-10, Noida, UP-201301.

With reference to the application dated 29.03.2022, the Competent Authority has accorded the approval to "Cosmo Analytical Lab" for the period of one year for conducting Chemical & Mechanical Tests of Building material limited to the scope of accreditation of NABL issued vide Test Certificate No. TC-6379, as per terms & conditions mentioned below:-

#### Terms & Conditions:-

- 1) The empanelment will get terminated after one year from the date of issue of this order, or on the expiry of validity of NABL accreditation, whichever is earlier.
- 2) Acknowledgment of test Samples shall be reported by e-mail on same day when sampling is done, to the concerned EE in-charge and their Project Head.
- 3) Test results / reports shall be submitted / conveyed by the laboratory within time period promised for completing each test through email and physical means.
- 4) This approval does not make the firm eligible for claiming any right to get testing done through them only.
- 5) Approval may be withdrawn prematurely in the event of complaints / fraudulent activity / undesirable action of the lab without assigning any reasons.
- 6) CPWD reserves the right to witness the tests process to be carried out in laboratory as and when required.
- 7) Logo of NABL should be printed on all test reports issued by the laboratory.

  
(AJEET VINAY KUJUR)  
Chief Engineer (W&TLQA)

To,

M/s Cosmo Analytical Lab,  
C-423, Sector-10, Noida,  
Uttar Pradesh-201301  
(Ph-0120-4218852, +91-9818388925)  
(Email: cosmoanalyticallabs@gmail.com)

Copy to:- All the CE-cum-EDs /SE-cum-PDs, in-charge of the Projects under ADG(Projects Delhi) for information and necessary action and get the materials tested from Labs approved by ADG(Projects Delhi) only by complying the requirements as under:-

- a) Performance of the Laboratory may be watched by field units {refer para-3 (iv) of SOP-5/16 of CPWD Works Manual}, and report to this office prior to expiry of validity of this approval.
- b) NABL accreditation of various tests to be conducted by the Lab may be checked on website [www.nabl.india.org](http://www.nabl.india.org) before assigning the job.

  
Chief Engineer (W&TLQA)





# दिल्ली मेट्रो रेल कॉर्पोरेशन लि० DELHI METRO RAIL CORPORATION LTD.

( भारत सरकार एवं दिल्ली सरकार का संयुक्त उपक्रम )  
(A JOINT VENTURE OF GOVERNMENT OF INDIA AND GOVT. OF DELHI)

No. DMRC/Corp/20/Design/001/99/Vol. X

March 8, 2017

**Cosmo Analytical Lab.**  
C-423, Sector-10, Noida  
Uttar Pradesh – 201 301

Kind Attn:- Mr. N. K. Khullar

**Sub:- Approval to M/s Cosmo Analytical Lab. for rendering its services in Delhi Metro Rail Projects.**

**Ref:- Your letter dated 06.03.2017**

Dear Sir,

This has reference to your letter regarding the subject cited above and the technical documents/credentials submitted by you to this office for approval of your laboratory for testing of materials. In this regard, we would like to inform you that we have **'no objection if M/s Cosmo Analytical Lab.** renders its services in the ongoing/upcoming Phase-IV Delhi Metro Rail Projects/Metro Rail Projects in various other cities for testing of materials in disciplines of Mechanical and Chemical testing.

This approval is being accorded considering **M/s Cosmo Analytical Lab.** is an NABL accredited Lab in accordance to ISO/IEC:17025 and ISO:9001 and certified in disciplines of Mechanical and Chemical Testing vide Certificate Nos. T-3627 (Mechanical Testing) and T-3626 (Chemical Testing). It is also noted that you are providing testing facilities to various organizations viz; IIT/Delhi, CPWD, PWD, AIIMS and U.P. State Bridge Corporation etc.

In view of above, you are advised to approach to our various contractors at sites, depending upon the requirements, for providing your services in the ongoing DMRC projects/other metro rail projects since DMRC is not directly receiving the services from testing laboratories.

*Handwritten signature/initials*

However, the Corporation wholly reserves the rights to revoke/suspend the enlistment on the basis of review any time during the enlistment period.

Please note that this approval has been accorded on the conditions of maintaining quality. In case of any negative feedback and deterioration in quality, this approval will stand cancelled automatically.

Mandatory checks about the quality will also be carried out as and when required so as to satisfy the site about the quality and the performance.

The above authorization, however, does not bind the Corporation in anyway for use of your services in the works.

Cosmo  
G-123  
Unit P

Yours sincerely,



**(Rajan Kataria)**  
**Executive Director (Technical)**





कार्यालय प्रमुख अभियन्ता एवं विभागाध्यक्ष,  
लोक निर्माण विभाग उत्तराखण्ड, देहरादून



Office of the Engineer in Chief, PWD Uttarakhand, Dehradun

Phone/ Fax:- 0135-2531424/2530431

Web - <http://pwd.uk.gov.in>

E-mail: [rcpwduk@gmail.com](mailto:rcpwduk@gmail.com)

पत्रांक-1058/ 195 सा0प्रा0 /2022

दिनांक :-15 अक्टूबर, 2022

**OFFICE ORDER**

The following NABL accredited laboratories are approved for third party testing of building, road and bridge construction material for PWD Uttarakhand works for a period of two years from the date of issue of this letter in addition to laboratories approved vide E-in-C, PWD Uttarakhand Office Order No. 1029/ 195 सा0प्रा0/ 2020 dated 07.11.2020, Order No. 1122/ 195-II सा0प्रा0/ 2020 dated 18.12.2020, Order No. 143/ 195 सा0प्रा0/ 2021 dated 11.02.2021, Order No. 217/ 195 सा0प्रा0/ 2021 dated 09.03.2021 and Order No. 792/ 195 सा0प्रा0/ 2021 dated 09.08.2021 –


S. No.	Name of Laboratory	Address	Contact Details
1	Cosmo Analytical Lab	C-423. Sector 10, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301	<b>Narinder Kumar Khullar, Technical Manager</b> Phone No. – 9818388925, 0120-4218852 e-mail: <a href="mailto:cosmolabs.noida@gmail.com">cosmolabs.noida@gmail.com</a>
2	Raicon Labs Pvt. Ltd.	02, Goyal Rice Mill Compound, SIDCUL Bypass Road, Bahadradab, Haridwar, Uttarakhand - 249402	<b>Dheeraj Tahan, Executive Manager</b> Phone No. – 9215793344, 8222070403 e-mail: <a href="mailto:dheeraj@raiconlabs.com">dheeraj@raiconlabs.com</a> <a href="mailto:ukraicon@gmail.com">ukraicon@gmail.com</a>
3	Alpha Test House	Plot No. 160, Industrial Area, Phase-IX, Mohali - 160062	<b>Aditya Singla, CEO</b> Phone No. – 8288094215, 8288094219 0172-5099707 e-mail: <a href="mailto:chandigarh@alphatesthouse.com">chandigarh@alphatesthouse.com</a> <a href="mailto:alphatesthouse160@gmail.com">alphatesthouse160@gmail.com</a>
4	HS Labs Pvt. Ltd.	Plot No. 576, Loni Road, Mohan Nagar, District-Ghaziabad, Uttar Pradesh - 201007	<b>S C Pande, CEO</b> Mobile No. – 9355465550, 9355275550 e-mail: <a href="mailto:hslabs83@gmail.com">hslabs83@gmail.com</a>
5	QA Testing Laboratories Private Limited	B-76, Sector-64, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301	<b>Ratnesh Rai</b> Phone No. – 0120-4133953, 8287945370 e-mail: <a href="mailto:admin@qatestinglaboratories.com">admin@qatestinglaboratories.com</a>

The approval of the aforementioned laboratories are subjected to following conditions –

1. There should be a continued renewal of validity of NABL accreditation.
2. This approval has been accorded on the condition that the Laboratory shall maintain quality and integrity of service intact. In case, any negative feedback and deterioration in quality of lab setup is found, this approval will stand cancelled automatically.
3. The Department wholly reserves the right to revoke/ suspend the approval on the basis of review at any time. Approval can be withdrawn prematurely if the laboratory is found to be engaged in fraudulent practice.


*nrp*

4. Above approval does not make the firm eligible for claiming right to take the work done through them which is subjected to their competitive stand amongst other qualifying specialized firm in the field to avail material testing facilities.
5. The tests shall be done in conformity with requirements of the relevant BIS/ ISO standards.
6. Logo of NABL should be displayed on all testing reports issued by the lab.
7. Hard Copies as well as Scanned Copies of reports of all the tests conducted by the laboratory shall be submitted to the concerned PWD divisions as well as to the Executive Engineer, Research Cell, Office of Engineer-in-Chief, PWD Uttarakhand, failing which, the approval shall be cancelled.  
(E-mail Id: [rcpwduk@gmail.com](mailto:rcpwduk@gmail.com))
8. Retention of balance material of tested sample is to be done for at least thirty days in case of conforming samples and sixty days for non-conforming samples from date of receipt of test reports by the Department for witness/ verification as per the requirements of the Department.
9. The field staff shall have the liberty to witness conducting of test on samples in their presence.
10. The approval will automatically lapse after the expiry of this period unless got renewed.
11. The performance of the firm shall be monitored by field units and submitted to the approving authority before expiry of validity of approval.
12. The laboratories outside Uttarakhand shall have to establish an Office/ Collection Centre in Uttarakhand within 60 days of this approval, failing which, the approval shall be cancelled.
13. The laboratories outside Uttarakhand shall have to establish their properly functioning Laboratory in Uttarakhand within 180 days of this approval, failing which, the approval shall be cancelled.

  
 15.10.2022  
 (Er. Ayaz Ahmad)  
 Engineer-in-Chief  
 PWD Uttarakhand

**Copy to below for information and necessary action:**

1. All Zonal Chief Engineers, Dehradun/ Pauri/ Almora/ Haldwani, PWD Uttarakhand.
2. Chief Engineer, NH, Dehradun, PWD Uttarakhand.
3. Chief Engineer, ADB/ World Bank, Dehradun, PWD Uttarakhand.
4. All Superintending Engineers, PWD Uttarakhand.
5. All Executive Engineers, PWD Uttarakhand.
6. Cosmo Analytical Lab, C-423. Sector 10, Noida, Gautam Buddha Nagar, UP-201301.
7. Raicon Labs Pvt. Ltd., 02, Goyal Rice Mill, Bahadradab, Haridwar-249402.
8. HS Labs Pvt. Ltd., Plot No. 576, Loni Road, Mohan Nagar, District-Ghaziabad, Uttar Pradesh – 201007.
9. Alpha Test House, Plot No. 160, Industrial Area, Phase-IX, Mohali – 160062.
10. QA Testing Laboratories Private Limited, B-76, Sector-64, Noida, UP-201301.
11. Executive Engineer, IT Cell, PWD Uttarakhand for uploading on website of PWD Uttarakhand.

  
 15.10.2022  
 Engineer-in-Chief  
 PWD Uttarakhand

Ref # HILL-SPCPL-LTR-07-2021-0030

Date: 17<sup>th</sup> July 2021

**To:** Mr. Pankaj Srivastava,  
Project Manager,  
Shapoorji Pallonji and Company Private Limited,  
Indian Oil Technology Development & Deployment Centre,  
Plot-1 & 1A, Industrial Model Town, Sector-67, Faridabad, Haryana  
E-mail: [pankaj.srivastava@shapoorji.com](mailto:pankaj.srivastava@shapoorji.com)

**Project:** Indian Oil Technology Development & Deployment Centre,  
Plot-1 & 1A, Industrial Model Town, Sector-67, Faridabad, Haryana

**Subject:** Regarding Approval Third Party Testing Laboratory

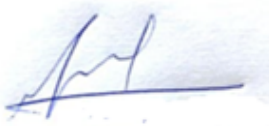
**Reference:** FOA No. RHQ/PJ/IOTDDC/2020-21/EPCC-1/FOA-1 dated 18<sup>th</sup> March 2021  
SPCPL Letter No. SPCPL/HILL/LTR/0621/0020 dated 16th June 2021

Dear Sir,

With reference to your Letter No. SPCPL/HILL/LTR/0621/0020 dated 16th June 2021 for Approval of Third Party Testing Laboratory, among the four testing labs proposed, the **Cosmo Analytical Lab** being the nearest, was visited and found to be suitable for testing of steels. Another lab, **NCCBM** being very close to site was also visited and found to be suitable for testing of cement and aggregates. You may use these two labs accordingly.

Sincerely yours,

For and on behalf of M/s Hill International Project Management (India) Pvt Ltd.



**Nalin Gupta**  
(Resident Construction Manager)

**Enclosures:** 1. Cosmo Analytical Lab Visit Report  
2. NCCBM Visit Report

**CC:** IOCL (Mr. Gyanesh Kumar, Ms. Aparna Bhargava, Mr. Sumit Kumar)  
Hill (Mr. Manoj Mittal, Mr. Pramod Mittal)  
SPCPL (Mr. Devender Singh, Mr. Ashwani Prasher)



**Mr. Sasisekar Subramanian, Project Director – WDFC/EMP-4 Larsen & Toubro Limited.**  
Vinayak Heights, Gautam Marg, Vaishali Circle, Vaishali Nagar, Jaipur-302021, Rajasthan, INDIA.

**Sub:** 2x25 KV Traction System for Rewari – Makarpura (Vadodara) section of WDFC – Phase-I (ICB No.: EMP4) – **Regarding Approval of NABL Accredited 3<sup>rd</sup> Party Laboratory – M/s. Cosmo Analytical Lab. NOIDA..**

**Ref.:** 1. SLT4/NKC/EMP-4/QAQC/GEN/2020/1075 Dt. 15/07/2020

Dear Sir,

Vide letter at 1 above, Contractor has submitted request for approval of NABL accredited 3<sup>rd</sup> Party Laboratory M/s. Cosmo Analytical Lab. NOIDA .for carrying out 03 Tests on SS Fasteners as per ASTM standards for Inter crystalline Corrosion Bend Test and Micro examination Test and Crushing Test as per RDSO. The Engineer has reviewed the same and following are the observations which were discussed with SLT-4 representative to explain.

1. Basis of following the ASTM standard. for the above two tests, .
2. There are 05 types of tests for inter crystalline test .The method being followed by the lab. and basis of the same may be advised. .

It is more than one month since it was discussed . but .Nothing is heard..

Therefore the SLT-4 contractor is requested to submit the compliance of the above observations at the earliest.

Thanking you

h

**Resident Engineer (Co.) – Electrical**  
Project Management Team – NKC - Jaipur

CC:

1. GM/WC/Elect, DFCCIL, New Delhi.
2. GM(Co.)DFCCIL Jaipur
3. CGM DFCCIL Ajmer
4. CGM DFCCIL Ahmadabad
5. CPM/Elect./DFCCIL/Ajmer
6. Dy. CPM (Elect.), DFCCIL, Jaipur
7. Dy. CPM/Elect./DFCCIL/Ahmadabad
8. The Project Director, NKC, New Delhi





# National Accreditation Board for Testing and Calibration Laboratories

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<b>Laboratory Name :</b>	COSMO ANALYTICAL LAB, C-423 SECTOR 10, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-6379	<b>Page No</b>	1 of 15
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Alumina	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Calcium Oxide	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Chloride	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Iron Oxide	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Loss of Ignition	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Magnesium Oxide	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Silica	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement OPC, PPC	Total Sulphur (as SO <sub>3</sub> )	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Fly ash	Combined Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) and Alumina (Al <sub>2</sub> O <sub>3</sub> )	IS 1727
16	CHEMICAL- BUILDING MATERIAL	Fly ash	Fe <sub>2</sub> O <sub>3</sub>	IS 1727
17	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesium Oxide (MgO)	IS 1727





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19	CHEMICAL- BUILDING MATERIAL	Fly ash	Silicon dioxide (SiO <sub>2</sub> )	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly ash	Total Sulphur As Sulphur Trioxide (SO <sub>3</sub> )	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Silica Fume	Loss on Ignition	IS 1727
22	CHEMICAL- BUILDING MATERIAL	Silica Fume	SiO <sub>2</sub>	IS 1727
23	CHEMICAL- CORROSION TESTS	Salt Spray Test	Salt Spray Test	ASTM B 117
24	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Phosphate Coating	Phosphate Coating	IS 3618
25	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Sheet	Uniformity of Zinc Coating	IS 2633
26	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coating	Mass of Zinc Coating	IS 6745
27	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Carbon	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Manganese	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Phosphorus	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Silicon	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Sulphur	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium alloys	Tin	ASTM E 1251-a
33	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Chromium	ASTM E 1251-a
34	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Copper	ASTM E 1251-a
35	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Iron	ASTM E 1251-a
36	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Lead	ASTM E 1251-a



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37	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Magnesium	ASTM E 1251-a
38	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Manganese	ASTM E 1251-a
39	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Nickel	ASTM E 1251-a
40	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Silicon	ASTM E 1251-a
41	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Titanium	ASTM E 1251-a
42	CHEMICAL- METALS & ALLOYS	Aluminum and Aluminum Alloy	Zinc	ASTM E 1251-a
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 1999
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 228 (Part 1)
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 1999
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	ASTM E 1999
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 228 (Part 2)
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 228 (Part 3)
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 228 (Part 8)
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999
55	CHEMICAL- METALS & ALLOYS	Copper & Copper alloy	Cobalt	BS EN 15079



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**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-6379

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
56	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Magnesium	BS EN 15079
57	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Manganese	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Aluminium	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Antimony	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Arsenic	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Bismuth	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Iron	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Lead	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Nickel	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Phosphorus	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Silicon	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Tin	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper and Copper Alloys	Zinc	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 228 (Part 1)
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 228 (Part 6)
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 228 (Part 2)
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 228 (Part 3)
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 228 (Part 8)
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Aluminium	ASTM E 415





# National Accreditation Board for Testing and Calibration Laboratories

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75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Boron	ASTM E 415
76	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Chromium	ASTM E 415
77	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Copper	ASTM E 415
78	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Molybdenum	ASTM E 415
79	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Nickel	AETM E 415
80	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Cobalt	ASTM E 415
81	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Lead	ASTM E 415
82	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Niobium	ASTM E 415
83	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Tin	ASTM E 415
84	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Titanium	ASTM E 415
85	CHEMICAL- METALS & ALLOYS	Low Alloy Steel/Carbon Steel	Vanadium	ASTM E 415
86	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Carbon	IS 228 (Part 1)
87	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Manganese	IS 228 (Part 2)
88	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Phosphorus	IS 228 (Part 3)
89	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Silicon	IS 228 (Part 8)
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G1253-02/ ASTM E 1086
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1)
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part 6)
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G1253-02/ ASTM E 1086



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94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G1253
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G1253-02/ ASTM E 1086
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part 2)
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G1253-02/ ASTM E 1086
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G1253-02/ ASTM E 1086
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G1253-02/ ASTM E 1086
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 (Part 3)
102	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G1253-02/ ASTM E 1086
103	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8)
104	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G1253-02/ ASTM E 1086
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G1253-02/ ASTM E 1086
106	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
107	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
108	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS G1253
109	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253
110	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	JIS G 1253
111	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253
112	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253



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113	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	JIS G 1253
114	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	JIS G 1253
115	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253
117	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS G 1253
118	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	JIS G 1253
119	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Product	Identification	ASTM E 1252-e1 (By FTIR)-1998 RA
120	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Product	Ash Content	ASTM D-297
121	CHEMICAL- WATER	Construction Water	Acidity (ml of 0.02N NAOH Solution used to neutralize 100 ml of Water Sample)	IS 3025 (Part 22)
122	CHEMICAL- WATER	Construction Water	Alkalinity (ml of 0.02 N H2SO4 Solution used to neutralize 100 ml of water sample using mixed indicator)	IS 3025 (Part 23)
123	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32)
124	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 18)
125	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part 18)
126	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (Part 11)
127	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 Part 24
128	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part 17)
129	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility at 25 degree C	IS 1208
130	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1448 (Part 69)
131	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
132	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205





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133	MECHANICAL- BUILDINGS MATERIALS	Bituminous mix	Binder Content	IRC SP11
134	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Compressive Strength	IS 3495 (Part 1)
135	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Dimension b) Width	IS 1077
136	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Dimension c) Height	IS 1077
137	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Dimension a) Length	IS 1077
138	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Efflorescence	IS 3495 (Part 3)
139	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay /Flyash Bricks	Water Absorption	IS 3495 (Part 2)
140	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness (By Autoclave)	IS 4031 (Part 3)
141	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
142	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031 (Part 4)
143	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part 11)
144	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part 5)
145	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness (By Blaine Air Permeability Apparatus)	IS 4031 (Part 2)
146	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031( Part 5)
147	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness (By Lechatelier Method)	IS 4031 (Part 3)
148	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386 (Part 4)
149	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
150	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
151	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material- Clay lumps	IS 2386 (Part 2)





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152	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious material-Coal & Lignite	IS 2386 (Part 2)
153	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious material-Finer than 75 $\mu$ IS Sieve	IS 2386 (Part 1)
154	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
155	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
156	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
157	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Loss Angeles Abrasion value	IS 2386 (Part 4)
158	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Organic Impurities	IS 2386 (Part 2)
159	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (2.36 mm to 80 mm) IS Sieve	IS 2386 (Part 1)
160	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na <sub>2</sub> So <sub>4</sub> /MgSo <sub>4</sub>	IS 2386 (Part 5)
161	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
162	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
163	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
164	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (part 1/sec 1)
165	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious material-Finer than 75 $\mu$ IS Sieve	IS 2386 (Part 1)
166	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
167	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material - Clay lumps	IS 2386 (Part-2) 1963 RA
168	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious material -Coal & Lignite	IS 2386 (Part 2) 1963 RA
169	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part-2) 1963 RA
170	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Particle Size (Sieve Analysis)	IS 2386 (Part 1) 1963 RA



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171	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness By Na <sub>2</sub> So <sub>4</sub> /Mgso <sub>4</sub>	IS 2386 (Part-5) 1963 RA
172	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3) 1963 RA
173	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3) 1963 RA
174	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Compressive Strength at 28 days	IS 1727
175	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness by wet sieving (45 micron IS Sieve)	IS 1727
176	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness-specific surface by Blaine's permeability method	IS 1727
177	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Lime reactivity	IS 1727
178	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness by autoclave test	IS 1727
179	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 1727
180	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
181	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
182	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Bend Test(Mandrel dia 24mm, 32mm,36mm,44mm, 50mm,60mm, 70mm, 72mm,80mm, 96mm,100mm,120mm,125mm ,144mm,,150mm,175mm,200 mm,256mm)	IS 1599
183	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Elongation %	IS 1608 (Part 1)
184	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Mass per Meter	IS 1786
185	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Rebend Test(Mandrel dia 24mm, 32mm,36mm,44mm, 50mm,60mm, 70mm, 72mm,80mm, 96mm,100mm,120mm,125mm ,144mm,,150mm,175mm,200 mm,256mm)	IS 1786



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186	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Tensile Strength	IS 1608 (Part 1)
187	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (TMT)	Yield Strength	IS 1608 (Part 1)
188	MECHANICAL- BUILDINGS MATERIALS	Silica Fumes	Compressive Strength	IS 1727
189	MECHANICAL- BUILDINGS MATERIALS	Silica Fumes	Oversize percent retained on 45 micron IS sieve	IS 1727
190	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloy & Product	Tensile Strength	ASTM A370
191	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & product	0.2 % Proof Stress	ASTM A370
192	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & product	Elongation	ASTM A 370
193	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & product	Yield Strength	ASTM A370
194	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	0.2% Proof Stress	IS 1608 Part 1
195	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Elongation %	IS 1608 Part 1
196	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Reduction Area %	IS 1608 Part 1
197	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Tensile Strength	IS 1608 Part 1
198	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper, Aluminium	Yield Strength	IS 1608 Part 1
199	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials ,alloy & product	0.2 % Proof Stress	IS 1608 (Part 1)
200	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Rockwell Hardness Test HRC	IS 1586-1





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201	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Bend Test	IS 1599
202	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Brinell Hardness Test	IS 1500 (Part 1)
203	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Rockwell Hardness Test HRB	IS 1586-1
204	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & non Ferrous alloy & Product	Rockwell Hardness Test: HRA	IS 1586-1
205	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material , alloys & product	Reduction Area	ASTM A 370
206	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	Load Test	IS 1608 (Part 1)
207	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	Proof Load (Nut)	IS 1367 (Part-6)
208	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & product	Proof Load -Bolt	IS 1367 (Part-3)
209	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & Product	Tensile Strength	ASTM E8/E8M
210	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Product	Yield Strength	ASTM E8/E8M
211	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, Alloys & products	% Elongation	ASTM E8/E8M
212	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Flattening Test	ASTM A 370-21 IS 2328
213	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Charpy Impact "V" Notch (-60°C to 22°C)	IS 1757 (Part 1)
214	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Izod Impact "V" Notch	IS 1598 1977 RA



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215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron	Elongation	IS 1608 Part 1
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron	Reduction Area	IS 1608 Part 1
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron	Yield Strength	IS 1608 Part 1
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless Steel , cast Iron,	Tensile Strength	IS 1608 Part 1
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded specimens	Bend Test	ASME (Sec.IX )
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded specimens	Transverse in Tensile	ASME (Sec.IX)
221	MECHANICAL-METALLOGRAPHY TEST	Aluminium	Microstructure	ASM Handbook vol 9
222	MECHANICAL-METALLOGRAPHY TEST	Austenite Stainless Steel	Intergranular Corrosion Test Practice E	ASTM A 262 2015 RA
223	MECHANICAL-METALLOGRAPHY TEST	Austenite Stainless Steel	Intergranular Corrosion Test Practice A	ASTM A 262-2015 RA
224	MECHANICAL-METALLOGRAPHY TEST	Cast Iron	Designation of microstructure of graphite in cast iron by form, size & distribution by comparison method	IS 7754 1975 RA
225	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (1 kg)	IS 1501 (part 1)
226	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (100gm)	IS 1501 (Part 1)
227	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (200gm)	IS 1501 (part 1)
228	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (300gm)	IS 1501 (Part 1)
229	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non Ferrous material, alloys & product	Microvickers Hardness Test (500gm)	IS 1501 (part 1)
230	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & product	Macro Examination	ASTM SEC-9/ISO 15614 (Part-1)



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231	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Vicker Hardness Tester (Load- 5 Kgf, 10 Kgf, 30 Kgf)	IS 1501 (Part-1)
232	MECHANICAL- METALLOGRAPHY TEST	Materials, alloys & Products (Steel, Stainless Steel)	Microstructure	ASM Handbook Vol. 9
233	MECHANICAL- METALLOGRAPHY TEST	Metallic coating materials	Plating Thickness	ASTM B487 (by Microscopic Method)
234	MECHANICAL- METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer by Microscopic Method	IS 6396 2000 RA
235	MECHANICAL- METALLOGRAPHY TEST	Steel	Determination of case Depth by Hardness Traverse Method	IS 6416
236	MECHANICAL- METALLOGRAPHY TEST	Steel	Determination of Case Depth by Microscopic Method	IS 6416 1988 RA
237	MECHANICAL- METALLOGRAPHY TEST	Steel	Grain Size by Comparison Method	IS 4748
238	MECHANICAL- METALLOGRAPHY TEST	Steel	Grain Size by Comparison Method	ASTM E 112
239	MECHANICAL- METALLOGRAPHY TEST	Steel	Inclusion Rating	ASTM E 45-a
240	MECHANICAL- METALLOGRAPHY TEST	Steel	Inclusion Rating (Steel Products) for method -A	IS 4163
241	MECHANICAL- METALLOGRAPHY TEST	Steel	Macro Test	ASTM E 381
242	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Prodct	Hardness Shore D	ASTM D 2240 e1
243	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Product	Density	IS 3400 (Part 9)
244	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & its Product	Compression Set	IS 3400 (Part-10)-1977 RA
245	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & its Product	Elongation at break	ASTM D 412
246	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & its Product	Tensile Strength	ASTM D412
247	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber & Product	Hardness Shore A	ASTM D 2240-e1
248	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid limit	IS 2720 (Part 5) 1985 RA
249	MECHANICAL- SOIL AND ROCK	Bentonite	pH at 2% suspension	IS 2720 (Part 26) 1987 RA





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250	MECHANICAL- SOIL AND ROCK	Bentonite	Swelling Index	IS 2720 (Part 40) 1977 RA
251	MECHANICAL- SOIL AND ROCK	Clay & Soils	Plastic Limit	IS 2720 (Part-5) 1985 RA
252	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR) value	IS 2720 Part 16 1987 RA
253	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 Part 1 1983 RA
254	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test b) Optimum Moisture Content	IS 2720 Part 8 1983 RA
255	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test a) Maximum Dry Density	IS 2720 Part 8 1983 RA
256	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test : a) Maximum Dry Density	IS 2720 Part 7 1980, RA
257	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test: b) Optimum Moisture Content	IS 2720 (Part 7) 1980, RA
258	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 Part 5 1985 RA
259	MECHANICAL- SOIL AND ROCK	Stone (Marble, Kota Stone & Granite)	Compressive Strength	IS 1121 (Part 1): 2013, RA
260	MECHANICAL- SOIL AND ROCK	Stone (Marble, Kota Stone & Granite)	Moisture Content	IS 1124-1974 RA
261	MECHANICAL- SOIL AND ROCK	Stone (Marble, Kota Stone & Granite)	Specific Gravity	IS 1122-1974 RA
262	MECHANICAL- SOIL AND ROCK	Stones (Marble, Kota Stone & Granite)	Water Absorption	IS 1124-1974 RA
263	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber	Density	IS 1708 (Part 1 to 18):1986, RA
264	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber	Moisture Content	IS 1708 (Part 1to 18)-1986 RA



## **COSMO ANALYTICAL LAB**

C-423, Sector-10 Noida (UP)-201301  
Contact No.-9818388925, 7985377877

### **OUR CLIENTS :-**

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- 2- CPWD
- 3- PWD-delhi
- 4- RITES Ltd.
- 5- Northern Railway
- 6- UP RAJKIYA NIRMAN NIGAM
- 7-NCRTC
- 8- PWD- Jammu
- 9- PWD- Uttarakhand
- 10- KRCL
- 11- U.P.State Bridge Co. Ltd.
- 12- Indian oil
- 13-Bharat Petroleum
- 14-NBCC
- 15- IRCON International Ltd.
- 16- L &T Ltd.
- 17- NHAI
- 18- Delhi Agriculture Marketing Board
- 19- UP JAL NIGAM
- 20- CSIR
- 21- NTPC
- 22- INDIAN RAILWAYS
- 23- IIT Delhi
- 24- AIIMS
- 25- Delhi Jal Board
- 26- Ministry of Defence (DGQA)
- 27- Shapoorji Pallonji
- 28- BHEL
- 29- AFCON
- 30- HSCC
- 31- HCC
- 32- ITD Cementation India Ltd.
- 33- CWC

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