National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ESSAR LABORATORIES AND RESEARCH CENTRE, FAZAL MANZIL, 36, SUVIDHA COLONY, KESHWAPUR, HUBLI, DHARWAD, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6191 **Page No** 1 of 5

Validity 17/11/2022 to 16/11/2024 **Last Amended on** 08/01/2023

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
LOCATION 1-FAZAL MANZIL, 36, SUVIDHA COLONY, KESHWAPUR, HUBLI, DHARWAD, KARNATAKA, INDIA Permanent Facility				
1	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24 Sec 1) (Gravimetric & Turbidity Methods)
2	CHEMICAL- WATER	Water	Calcium	IS 3025 (Part 40)
3	CHEMICAL- WATER	Water	Chloride	IS 3025 Part 32
4	CHEMICAL- WATER	Water	Dissolved Solids	IS 3025 Part 16
5	CHEMICAL- WATER	Water	Fluoride	IS 3025 Part 60(a)
6	CHEMICAL- WATER	Water	Hardness	IS 3025 Part 21
7	CHEMICAL- WATER	Water	Iron	IS 3025 Part 53
8	CHEMICAL- WATER	Water	Nitrate	IS 3025 Part 34
9	CHEMICAL- WATER	Water	pH	IS 3025 Part 2
10	CHEMICAL- WATER	Water	Residual Chlorine	IS 3025: Part 26
11	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Test - Practice A	ASTM A262
12	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Test - Practice B	ASTM A262
13	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Test - Practice C	ASTM A262
14	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Test - Practice E	ASTM A262
15	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steel	Inter Granular Corrosion Test - Practice F	ASTM A262

SCOPE OF ACCREDITATION

Laboratory Name : ESSAR LABORATORIES AND RESEARCH CENTRE, FAZAL MANZIL, 36, SUVIDHA COLONY, KESHWAPUR, HUBLI, DHARWAD, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6191 **Page No** 2 of 5

Validity 17/11/2022 to 16/11/2024 **Last Amended on** 08/01/2023

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
LOCATION 2 - ROSE VILLA, 4TH CROSS, GOPANAKOPPA, HUBLI, DHARWAD, KARNATAKA, INDIA Permanent Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Aggregate Crushing Value	IS 2386 : Part 4
2	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Bulk Density	IS 2386 : Part 3
3	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Impact Value	IS 2386 : Part 4
4	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Sieve Analysis of Aggregate	IS 2386 (Part 1)
5	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Specific Gravity (Fine)	IS 2386 : Part 3
6	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Specific Gravity: Aggregate (Coarse)	IS 2386 : Part 3
7	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Water Absorption	IS 2386 : Part 3
8	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 : Part 1
9	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 : Part 2
10	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks	Block Density	IS 2185 : Part 1
11	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks	Compressive Strength	IS 2185 : Part 1
12	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks	Water Absorption	IS 2185 : Part 1
13	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516 : Part 1 : Sec 1
14	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516 : Part 1 : Sec 1
15	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
16	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires	Bend Test	IS 1599

SCOPE OF ACCREDITATION

Laboratory Name : ESSAR LABORATORIES AND RESEARCH CENTRE, FAZAL MANZIL, 36, SUVIDHA COLONY, KESHWAPUR, HUBLI, DHARWAD, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6191 **Page No** 3 of 5

Validity 17/11/2022 to 16/11/2024 **Last Amended on** 08/01/2023

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
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires	Mass per Metre	IS 1786
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires	Re Bend Test	IS 1786
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires (up to 25mm diameter)	% Elongation	IS 1608 : Part 1
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires size up to 25mm diameter	Tensile Strength	IS 1608 : Part 1
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars and wires size up to 25mm diameter	Yield Strength	IS 1608 : Part 1
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	% Elongation	IS 1608 - Part 1
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	IS 1599
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy Impact Energy Test (V-notch) Room temperature to -70°C and - 196°C	IS 1757 Part 1
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Tensile Strength	IS 1608 : Part 1
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Strength	IS 1608 : Part 1
28	MECHANICAL- SOIL AND ROCK	Clays & Soils	Direct Shear Test	IS 2720 : Part 13
29	MECHANICAL- SOIL AND ROCK	Clays & Soils	CBR (California bearing ratio test)	IS 2720 : Part 16
30	MECHANICAL- SOIL AND ROCK	Clays & Soils	Free Swell Index	IS 2720 : Part 40
31	MECHANICAL- SOIL AND ROCK	Clays & Soils	Grain Size Analysis	IS 2720 : Part 4
32	MECHANICAL- SOIL AND ROCK	Clays & Soils	Liquid Limit & Plastic limit	IS 2720 : Part 5

SCOPE OF ACCREDITATION

Laboratory Name : ESSAR LABORATORIES AND RESEARCH CENTRE, FAZAL MANZIL, 36, SUVIDHA COLONY, KESHWAPUR, HUBLI, DHARWAD, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6191 **Page No** 4 of 5

Validity 17/11/2022 to 16/11/2024 **Last Amended on** 08/01/2023

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
33	MECHANICAL- SOIL AND ROCK	Clays & Soils	Modified Proctor test - Dry Density	IS 2720 : Part 8
34	MECHANICAL- SOIL AND ROCK	Clays & Soils	Modified Proctor Test - Water Content	IS 2720 : Part 8
35	MECHANICAL- SOIL AND ROCK	Clays & Soils	Specific Gravity	IS 2720 : Part 3 : Sec 1
36	MECHANICAL- SOIL AND ROCK	Rock	Density of Rock	IS 13030
37	MECHANICAL- SOIL AND ROCK	Rock	UCS of Rock	IS 9143
38	MECHANICAL- SOIL AND ROCK	Rock	Water Content of Rock	IS 13030

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ESSAR LABORATORIES AND RESEARCH CENTRE, FAZAL MANZIL, 36, SUVIDHA COLONY, KESHWAPUR, HUBLI, DHARWAD, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6191 **Page No** 5 of 5

Validity 17/11/2022 to 16/11/2024 **Last Amended on** 08/01/2023

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
LOCATION 2 - ROSE VILLA, 4TH CROSS, GOPANAKOPPA, HUBLI, DHARWAD, KARNATAKA, INDIA Site Facility				
1	MECHANICAL- SOIL AND ROCK	Clays & Soils	SPT (Standard Penetration Test)	IS 2131
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer	IS 516 (Part 5/Sec 4)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS 516 : Part 5 : Sec 1