



ISO 9001:2015

Discipline: Mechanical Testing
Group: Soil and Rock

CENTRE FOR DEVELOPMENT OF STONES

(An autonomous organisation promoted by Government of Rajasthan and RIICO)
SP-8, SITAPURA INDUSTRIAL AREA, PHASE (IV) JAIPUR-302 022, INDIA
Email: testinglab@cdos-india.com, info@cdos-india.com,
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**STONE TESTING LABORATORY
(R&D CENTRE)**

Test Report No. – 2025-26/014

TEST REPORT

1. Name and address of the customer	M/s Indus Planet Mineral Solutions, Shop No. 02, Khasra No. 2560/1115, 2562/1116, 2564/2288, NH-48, Gram Gidani Mauzmabaad, Dudu-303008, Rajasthan, India
2. Reference No.	TRF dated February 13, 2026
3. Rock Type	Quartzite
4. Commercial Name	----
5. Customer Sample ID No.	IPMS-54 to IPMS-73
6. Location of the Sample	Village: Agwali, Tehsil: Bayana, Bharatpur, Rajasthan, India
7. Nature of the Sample	Machine cut
8. Condition of Sample	Ok
9. Date of receipt of sample	February 4, 2026
10. Date of testing	February 9, 2026 to March 18, 2026

TEST RESULT**Resistance to ageing by Thermal Shock (Test Method- EN 14066:2013)****Pre Flexural Strength (Test Method- EN 12372:2022) before Thermal Shock cycle**

(Room Temperature: 20.2°C)

S.No.	Sample Mark	Length (mm)	Width (mm)	Height (mm)	Breaking Load (KN)	Flexural Strength (F.) (MPa)
1.	32/2025-26/SS/2022	300.00	54.32	48.65	8.740	25.50
2.	32/2025-26/SS/2023	300.00	52.78	49.45	6.340	18.40
3.	32/2025-26/SS/2024	300.00	51.92	49.65	3.800	11.10
4.	32/2025-26/SS/2025	300.00	54.18	48.87	5.330	15.40
5.	32/2025-26/SS/2026	300.00	52.94	49.85	5.770	16.40
6.	32/2025-26/SS/2027	300.00	50.95	49.24	7.540	22.90
7.	32/2025-26/SS/2028	300.00	54.24	48.79	6.910	20.10
8.	32/2025-26/SS/2029	300.00	53.86	49.36	8.720	24.90
9.	32/2025-26/SS/2030	300.00	54.12	49.56	9.590	27.10
10.	32/2025-26/SS/2031	300.00	52.85	49.72	6.250	17.90
Average Value						19.97
Standard Deviation						5.09


(Manish Gupta)
Quality & Technical Manager
Prepared & Reviewed by


(K. K. Mathur)
Consultant Geologist
Authorised Signatory

End of Test Report



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STONE TESTING LABORATORY (R&D CENTRE)

Test Report No. – 2025-26/014

Post Flexural Strength (Test Method- EN 12372:2022) after 20th Thermal Shock Cycle

(Room Temperature: 20.7°C)

S.No.	Sample Mark	Length (mm)	Width (mm)	Height (mm)	Breaking Load (KN)	Flexural Strength (F _f) (MPa)
1.	32/2025-26/SS/2032	300.00	54.43	45.88	6.280	20.60
2.	32/2025-26/SS/2033	300.00	45.59	50.02	6.430	21.10
3.	32/2025-26/SS/2034	300.00	50.12	45.96	7.240	25.60
4.	32/2025-26/SS/2035	300.00	49.87	45.31	4.080	14.90
5.	32/2025-26/SS/2036	300.00	56.17	47.87	12.880	37.50
6.	32/2025-26/SS/2037	300.00	49.07	44.88	6.490	24.60
7.	32/2025-26/SS/2038	300.00	53.57	45.06	8.540	29.40
8.	32/2025-26/SS/2039	300.00	49.94	44.91	7.890	29.40
9.	32/2025-26/SS/2040	300.00	44.66	54.20	10.720	30.60
10.	32/2025-26/SS/2041	300.00	44.88	55.71	9.680	26.10
Average Value						25.98
Standard Deviation						6.28

Percentage (%) change in Flexural Strength (ΔF)

S. No.	Flexural Strength (F _i) (MPa)	Flexural Strength (F _f) (MPa)	Change in Flexural Strength ΔF (%)
1.	25.50	20.60	(-)19.22
2.	18.40	21.10	14.67
3.	11.10	25.60	130.63
4.	15.40	14.90	(-) 3.25
5.	16.40	37.50	128.66
6.	22.90	24.60	7.42
7.	20.10	29.40	46.27
8.	24.90	29.40	18.07
9.	27.10	30.60	12.92
10.	17.90	26.10	45.81
Average Change in Percentage			38.20

Visual Appearance after 20th cycle of Resistance to ageing by Thermal Shock

- No change in colour and texture
- No sign of cracking and breaking along the corners.
- No sign of scaling or exfoliation.



Quartzite Stone Sample

Date of issue of report: March 23, 2026


(Manish Gupta)
Quality & Technical Manager
Prepared & Reviewed by


(K. K. Mathur)
Consultant Geologist
Authorised Signatory

End of Test Report