



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

NABL                      RSPCB                      ISO 9001:2015                      OHSAS 18001:2007                      JDA/UDH

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## TEST REPORT

Report No./ULR No.	700000005	Date :	30-01-2020
Issued To :	<b>M/S Shree Ganpati Chemical &amp; Minerals</b> Off Add.: A - 144, Ansal Sushant City , Jaisalmer Road, Bikaner, Bikaner (Rajasthan), Site Add.: 20 KHM , Ballar Road, Dantor , Bikaner	Type of Unit :	Industry
Type of Sample :	Mineral Ore	Date of Sample Collection/Monitoring	18-01-2020
Point of Collection	<b>Gypsum Powder</b>	Date of Receipt :	20-01-2020
Date of Test/Analysis :	20-01-2020 to 30-01-2020	Sampling Plan :	Not Available
Quantity of Sample	30 Kg <b>Gypsum Powder</b>	Sample Collected by	Unit's Representative
Unit's representative :	Pankaj Kumar Ramawat (+919660900655)	Condition of Sample :	Fit for testing

## RESULTS

### (A) CHEMICAL ANALYSIS

S. No.	Parameter	Unit	Observed Value	Testing Protocol
1	Loss on Ignition	%	8.98	IS-1288, 1982, RA-1999
2	Calcium oxide (Total CaO)		32.95	
3	Sulphuric Anhydride (SO <sub>3</sub> )		44.17	
4	Free Lime		< 0.005	

### Specifications :- IS 2547 (Part-1)- 1976: "Specification For Gypsum Building Plaster".

S. No.	Parameter	Plaster of Paris	Retarded Hemihydrate Gypsum Plaster	Anhydrous Gypsum Plaster	Keene's Plaster
1	Sulphuric Anhydride (SO <sub>3</sub> ) %	Min 35	Min 35	Min 40	Min 47
2	Calcium oxide (Total CaO) %	Min 2/3 of SO <sub>3</sub>	Min 2/3 of SO <sub>3</sub>	Min 2/3 of SO <sub>3</sub>	Min 2/3 of SO <sub>3</sub>
3	Loss on Ignition %	4-9	4-9	Max 3.0	Max 2.0
4	Free Lime %	-	3+	-	-

-Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst  
Pooja Devidas Moon

K.N. Mukhophadyay  
Authorized Signatory  
(Report No: 700000005)



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<b>Type of Sample :</b>	Mineral Ore	<b>Date of Sample Collection/Monitoring</b>	18-01-2020
<b>Point of Collection</b>	<b>Gypsum Powder</b>	<b>Date of Receipt :</b>	20-01-2020
<b>Date of Test/Analysis :</b>	20-01-2020 to 30-01-2020	<b>Sampling Plan :</b>	Not Available
<b>Quantity of Sample</b>	30 Kg <b>Gypsum Powder</b>	<b>Sample Collected by</b>	Unit's Representative
<b>Unit's representative :</b>	Pankaj Kumar Ramawat (+919660900655)	<b>Condition of Sample :</b>	Fit for testing

## RESULTS

### (A) PHYSICAL ANALYSIS

S. No.	Parameter	Unit	Observed Value	Testing Protocol
1	Compressive Strength (1 Day)	N/mm <sup>2</sup>	8.9	IS-2542 (Part-I) Sec.1 to 12, 1978 RA 2002
2	Compressive Strength (7 Day)	N/mm <sup>2</sup>	23.4	
3	Setting Time	Minutes	10.0	
4	Flexural Strength (1 Day)	Kg/ cm <sup>2</sup>	50.10	
5	Bulk Density	Kg / m <sup>3</sup>	642.0	
6	Residue on 150 Micro meter Sieve	%	1.78	

### Requirement As Per IS 2547 (Part-2)-1976, RA-2002, "Specification For Gypsum Building Plaster."

S. No.	Test	Undercoat Plaster (Type A)			Final Coat Plaster (Type B), Finish Plaster
		Browning Plaster	Metal Lathing Plaster	Bonding Plaster	
1	Compressive Strength - N/mm <sup>2</sup>	0.93	1.0	1.0	-
2	Bulk Density- Kg / m <sup>3</sup>	640	770	770	-

### Requirement As Per IS 2547 (Part-1)-1976, RA-2002, Amend No.-2 "Specification For Gypsum Building Plaster."

S. No.	Test	Plaster of Paris		Anhydrous Gypsum Plaster	Keene's Plaster
		Type A (short time setting )	Type A (Long time setting)		
1	Flexural Strength – Kg/cm <sup>2</sup>	5	4*	-	-
2	Residue on 150 Micro meter Sieve -%	5.0	5.0* (1.0)+	2.0	2.0
3	a) Plaster sand mixture	45-120	120-900	-	-
	b) Neat Plaster	10-30	60-180	20-360	20-360

- Applicable to undercoat plasters only
- + Applicable to final coat plasters.

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