



# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/03/ 3177	ULR No.	TC54322200000 0177P	Date :	14-03-2022
Job Code	M 0810222	Page No.	2 of 2		
Date of receipt	19-02-2022	Date of Completion of Test	13-03-2022		

COMPRESSIVE STRENGTH OF CONCRETE CUBE (IS: 516 Part-1 : 2021 Cl. Sec. 01)

SAMPLE No.: 75728A

S. NO.	DATE OF CASTING	DATE OF TESTING	LOAD TAKEN (KN)	SIZE mm (L/B)	COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	AVG. COMPRESSIVE STRENGTH N/mm <sup>2</sup>	WEIGHT OF CUBE kg.	Requirement as per IS: 456-2000 Table-II for 28 Days comp. strength
1	13-02-2022	13-03-2022	594.0	150.0	26.4	26.99 Say 27.0 28- Days Compressive Strength	8.233	(a) Average of 3 Cubes shall not be less than 24 N/mm <sup>2</sup> (b) Individual Result ≥16 N/mm <sup>2</sup>
				150.0				
2	13-02-2022	13-03-2022	612.0	150.0	27.2		26.99 Say 27.0 28- Days Compressive Strength	
				150.0				
3	13-02-2022	13-03-2022	616.0	150.0	27.4	26.99 Say 27.0 28- Days Compressive Strength		8.258
				150.0				

### Sun-Tech

40 P. Tupudana Industrial Area,  
Ranchi

Checked by:

Seal

Authorised Signatory:

*Handwritten signature*



*Handwritten signature*  
A. O. Nanda  
Laboratory-In-Charge  
Sun-Tech, Ranchi

\*\*\*\*\* END OF REPORT \*\*\*\*\*

*Signature*  
Assistant Engineer  
S P O Ranchi e/s

*Signature*  
जलविद्युत कार्य-परिचालक  
संयोजक बिना परिभाषित-परिचालक







# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/03/ 3176	ULR No.	TC54322200000 0176F	Date :	14-03-2022
Job Code	M 0810222	Page No.	2 of 2		
Date of receipt	19-02-2022	Date of Completion of Test	13-03-2022		

### COMPRESSIVE STRENGTH OF CONCRETE CUBE (IS: 516 P-1 : 2021 Cl. Sec. 01)

SAMPLE No.: 75728

S. NO.	DATE OF CASTING	DATE OF TESTING	LOAD TAKEN (KN)	SIZE mm (L/B)	COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	AVG. COMPRESSIVE STRENGTH N/mm <sup>2</sup>	WEIGHT OF CUBE kg.	Requirement as per IS: 456-2000 Table-II for 28 Days comp. strength
1	13-02-2022	13-03-2022	596.0	150.0	26.5	26.87 Say 27.0 28- Days Compressive Strength	8.244	(a) Average of 3 Cubes shall not be less than 24 N/mm <sup>2</sup> (b) Individual Result $\geq$ 16 N/mm <sup>2</sup>
				150.0				
2	13-02-2022	13-03-2022	612.0	150.0	27.2		8.254	
				150.0				
3	13-02-2022	13-03-2022	606.0	150.0	26.9			
				150.0				

## Sun-Tech

40 P, Tupudana Industrial Area, Ranchi

Checked by: Junior Engineer Ranchi 	Seal 	Authorised Signatory:  A. D. Hama Laboratory-In-Charge Sun-Tech, Ranchi
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Assistant Engineer  
SPO Ranchi

असिस्टेंट इंजीनियर  
आरक्षण विभाग  
राँची





# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/03/ 3178	ULR No.	TC54322200000 0178f	Date :	02-03-2022
Job Code	M 0810222	Page No.	2 of 2		
Date of receipt	19-02-2022	Date of Completion of Test	01-03-2022		

### TESTING OF BURNT CLAY BRICKS

SAMPLE No.: 75729

S. No.	NAME OF THE TEST	TEST METHOD	TEST RESULTS	Requirment Specification IS:1077-1992
1	AVERAGE COMPRESSIVE STRENGTH (AVERAGE OF 5 NOS. BRICKS) (N/mm <sup>2</sup> )	IS:3495-1992 PART-I RA 2011	8.0	7.5 N/mm <sup>2</sup> Min.
2	AVERAGE WATER ABSORPTION (AVERAGE OF 5 NOS. BRICKS ) (%)	IS:3495-1992 PART-II RA 2011	14.9	20% Max.
3	EFFLORESCENCE	IS:3495-1992 PART-III RA 2011	SLIGHT	Deposit of salts on the exposed surfaces; Nil:- 0% Slight:- <10% Moderate->10% but <50% Heavy:- ≥ 50% Serious:- ≥ 50% & Accompanied by powdering and/or flaking.

### Sun-Tech

40 P, Tupudana Industrial Area,  
Ranchi

Junior Engineer  
Jharkhand Education Deptt.  
Ranchi

Checked by:  
*Lalaya*

Seal



Authorised Signatory:

*A. D. Ram*  
A. D. Ram  
Laboratory-in-Charge  
Sun-Tech Ranchi

\*\*\*\*\* END OF REPORT \*\*\*\*\*

seen  
Assistant Engineer  
SPO Ranchi

असैनिक कार्य प्रकल्प  
घारखण्ड शिक्षा परियोजना पोस्ट  
रांची





# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL - 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/06/816	ULR No.	TC54322200000916F	Job Code	M 0360622
Date of receipt	15-06-2022	Date of issue of Test Report	22-06-2022		
Customer's Name & Address	सहायक अभियंता झारखण्ड शिक्षा परिषद शरदकेला खरसापै				
	C/O., कोशीपीठएसओएसओएस महिला उच्च विद्यालय शरदकेला मदन निर्माण कार्य में प्रयुक्त ईंट की गुणवत्ता के जाँच. (SUPER STRUCTURE DESIGNATION 100A FLY ASH BRICK WORK IN S/S.)				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT.LTD.				
	AGREEMENT NO:- JEPC/SOE/53/SER/29/2021      DATE:- 02/08/2021.				
Customer's Letter No.	LETTER REF. NO. :-SSA/2022/581			DATE:-20/06/2022	

### SAMPLE DETAILS:

Sample No.	80551	Material/ Item:	06 NOS FLY ASH . BRICK
Material Condition	GOOD	Environmental condition:	Laboratory Temperature : 28°C
Standard Applicable for testing	IS: 12894:2002	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	20-06-2022	Sample analysis End date:	22-06-2022

### TEST RESULTS

MATERIAL	FLY ASH BRICK MARK: MBR (100A)	Discipline/ Group	BUILDING MATERIAL
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### TESTING OF FLY ASH BRICKS

S.NO	NAME OF THE TEST	TEST METHOD	TEST RESULTS	Requirement Specification IS:1077-1992
1	AVERAGE COMPRESSIVE STRENGTH (AVERAGE OF 3 NOS. BRICKS) (N/mm <sup>2</sup> )	IS:3495-1992 PART-I RA 2011	10.8	10.0 N/mm <sup>2</sup> Min.
2	AVERAGE WATER ABSORPTION (AVERAGE OF 3 NOS. BRICKS) (%)	IS:4031 PART-4 1988 RA - 2014	12.80	20% Max.
3	EFFLORESCENCE	IS:3495-1992 PART-III RA 2011	SLIGHT	Moderate, min. for upto class 12.5

Remark:- The tested parameters of the sample conforms to the Specification IS: 12894:2002

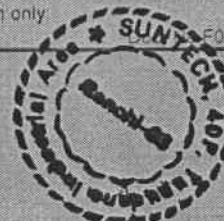
\*\*\*\*\*END OF REPORT\*\*\*\*\*

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law . without written approval of Laboratory provide assurance that parts of a report are not taken out of context 4 All disputes subject to Ranchi Jurisdiction only



Reviewed By:

Sanjay P O  
Assistant Engineer  
S P O Ranchi  
Page No. 1 of 1



A.D. Hans  
Laboratory-In-Charge  
Sun-Tech Ranchi  
Authorised Signatory





# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL - 7808266661/2/3

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## TEST REPORT

Test Report No.	ST/TR/22/06/820	ULR No.	TC543222000000920F	Job Code:	M 0360622
Date of receipt	20-06-2022	Date of Issue of Test Report	23-06-2022		
Customer's Name & Address	सहायक अभियंता डारखण्ड शिक्षा परियोजना, सरायकेला-खरसावाँ C/o. CONSTRUCTION OF BUILDING OF K.V.P.S. D.S.S. GIRLS HIGH SCHOOL SARAİKELA.				
Customer's Letter No.	LETTER No.: SSA/2022/581		DATE: 20/6/2022		

### SAMPLE DETAILS

Sample No.	80549	Material/ Item:	1 BAG SAMPLE OF FINE AGGREGATE
Material Condition	SEALED	Environmental condition:	Laboratory Temperature at time Analysis : 25°C
Standard Applicable for testing	IS:383 & (Clause 4.3)	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	21-06-2022	Sample analysis End date:	22-06-2022

### TEST RESULTS

MATERIAL	FINE AGGREGATE	Discipline/ Group	MECHANICAL / BUILDINGS MATERIALS		
S. No.	Sieve Size (mm)	% Passing	Requirements/Specificat ion for Sand Zone II as per IS:383 & (Clause 4.3)	Remarks	Conformity
1	10	100	100	The Sand Falls Under Sand Zone-II	YES ✓
	4.75	93	90 - 100		YES ✓
	2.36	80	75 - 100		YES ✓
	1.18	62	55 - 90		YES ✓
	0.600μ	42	35 - 59		YES ✓
	0.300μ	10	8 - 30		YES ✓
	0.150μ	1	0 - 10		YES ✓
FINENESS MODULUS		3.12			-

Remark:-

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Declarations: 1 Sample will be retained for three months from the testing 2. The test results shall be valid only to the sample as received or sampled for testing and as per applicable parameters 3. The report can not be used as an evidence in the court of law. 4. Any written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only

Doc. No F01(7.8)/Amnd-08



29/6/22  
Junior Engineer  
Ranchi  
Markhand Education Proj

2003  
Dyal Singh  
Assistant Engineer  
S P O Ranchi

Reviewed By: hdy

Page No. 1 of 1

SUNTECH  
Ranchi-03  
A. D. Hans  
Laboratory-In-Charge  
SunTech, Ranchi  
Authorised Signatory



# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

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TEL - 7808266661/2/3



## TEST REPORT

Test Report No.	ST/TR/22/06/821	ULR No.	TC543222000000921F	Job Code:	M 0360622
Date of receipt	20-06-2022	Date of issue of Test Report	23-06-2022		
Customer's Name & Address	सहायक अभियंता झारखण्ड शिक्षा परियोजना, सरायकेला-खरसावई C/o. CONSTRUCTION OF BUILDING OF K.V.P.S. D.S.S. GIRLS HIGH SCHOOL SARAIKELA.				
Customer's Letter No.	LETTER No.: SSA/2022/581		DATE: 20/6/2022		

### SAMPLE DETAILS:

Sample No.	80550	Material/ Item:	1KG. APPROXIMATELY SAMPLE OF 20mm STONE AGGREGATE
Material Condition	Good	Environmental condition:	Laboratory Temperature at time Analysis : 25°C
Standard Applicable for testing	IS: 383	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	21-06-2022	Sample analysis End date:	22-06-2022

### TEST RESULTS

MATERIAL	STONE CHIPS	Discipline/ Group	MECHANICAL / BUILDINGS MATERIALS			
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	Requirements as per MORTH	Conformity
1	AGGREGATE IMPACT VALUE	%	19	IS:2386-P- IV-1963 RA 2011	30.0% Max.	YES
2	AGGREGATE CRUSHING VALUE	%	20		-	-
3	LOS ANGELES ABRASION VALUE	%	22		50.0% Max.	YES
4	SPECIFIC GRAVITY	-	2.76	IS:2386- PART-III-1963 RA 2011	-	-
5	WATER ABSORPTION	%	0.11		2.00% Max.	YES

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in any court of law without the approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

Doc. No F01(7.8) Arndd 08



*Signature*  
27/6/22  
Junior Engineer  
Ranchi  
Jharkhand Education Project

*Signature*  
Assistant Engineer  
S P O Ranchi



*Signature*  
A. U. Hara  
Laboratory-In-Charge  
Sun-Tech, Ranchi

Reviewed By: *Signature*

Authorised Signatory





# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL - 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/06/ 819	ULR No.	TC543222000000911F	Job Code:	M 0360622
Date of receipt	15-06-2022	Date of Issue of Test Report	22-06-2022		
Customer's Name & Address	सहायक अभियंता झारखण्ड शिक्षा परियोजना सरायकेला खरसावई				
	C/O., के०मी०पी०एस०डी०एस०एस बालिका उच्च विद्यालय सरायकेला मवन निर्माण कार्या में प्रयुक्त कंक्रीट की गुणवत्ता के जाँच				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT.LTD.				
	AGREEMENT NO.:- JEP/COE/53/SER/29/2021		DATE:- 02/08/2021.		

Customer's Letter No.	LETTER REF. NO.:-SSA/2022/581	DATE:-20/06/2022
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### SAMPLE DETAILS:

Sample No.	80548	Material/ Item:	03 Nos CONCRETE CUBES M-20 (1:1:5:3) Casted on Date 15/06/2022as Declared by Customer
Material Condition	GOOD	Environmental condition:	Laboratory Temperature 28°C
Standard Applicable for testing	IS:516 P1 2021, CL SEC1.	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF, SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	20-06-2022	Sample analysis End date:	22-06-2022

## TEST RESULTS

MATERIAL	CUBE	Discipline/ Group	MECHANICAL/BUILDING MATERIAL
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COMPRESSIVE STRENGTH OF CONCRETE CUBE (IS:516 P1 2021, CL SEC1.) LOC:- FLOOR BEAM & ROOF SLABS

S.No. MARK	DATE OF CASTING	DATE OF TESTING	LOAD TAKEN (KN)	SIZE mm (L/B)	COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	AVG. COMPRESSIVE STRENGTH N/mm <sup>2</sup>	WEIGHT OF CUBE kg.	Requirement as per IS: 456-2000 Table-II for 28-days comp. Strength
1	15-06-2022	22-06-2022	396.3	150.0	17.61	18.3 Say 18.5 7-DAYS COMPRESSIVE STRENGTH	8.233	असैनिक कार्य प्रबंधक झारखण्ड शिक्षा परियोजना परिषद राँची
				150.0				
2	15-06-2022	22-06-2022	416	150.0	18.49		8.254	
				150.0				
3	15-06-2022	22-06-2022	425.6	150.0	18.92	8.268		
				150.0				

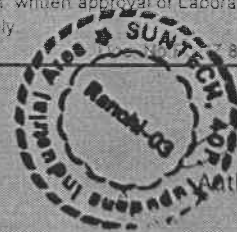
Remark: The sample has achieved comp. strength 76% of the expected 28 days comp. strength

### END OF REPORT

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only



Assistant Engineer  
SPO Ranchi



A.D. Man  
Laboratory-In-Charge  
Sun-Tech Ranchi

Reviewed By:





# Sun-Tech

40 P Tupudana Industrial Area Ranchi-834003, Jharkhand

TEL:- 7808200012, 3

Accredited as per ISO/IEC 17025:2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/07/ 819	ULR No.	TC543222000006972	Job Code.	M 0360622
Date of receipt	15-06-2022	Date of Issue of Test Report	13-07-2022		
Customer's Name & Address	सहायक अभियंता झारखण्ड शिक्षा परियोजना सरायकेला खरसावै।				
	C/O.. के०गी०पी०एस०डी०एस०एस० बालिका उच्च विद्यालय सरायकेला मवन निर्माण कार्या मे प्रयुक्त कंक्रीट की गुणवत्ता के जाँच				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT.LTD.				
	AGREEMENT NO:- JEPC/SOE/53/SER/29/2021 DATE:- 02/08/2021.				
Customer's Letter No.	LETTER REF. NO.:-SSA/2022/581			DATE:-20/06/2022	

### SAMPLE DETAILS:

Sample No.	80548	Material/ Item:	03 Nos CONCRETE CUBES M-20 (1:1:5:3) Casted on Date 15/06/2022as Declared by Customer
Material Condition	GOOD	Environmental condition:	Laboratory Temperature 28°C
Standard Applicable for testing	IS:516 P1 2021, CL SEC1.	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF, SAMPLING DONE BY LAB:ORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	20-06-2022	Sample analysis End date:	13-07-2022

### TEST RESULTS

MATERIAL	CUBE	Discipline/ Group	MECHANICAL/BUILDING MATERIAL					
COMPRESSIVE STRENGTH OF CONCRETE CUBE (IS:516 P1 2021, CL SEC1.)							LOC:- FLOOR BEAM & ROOF SLABS	
S.No. MARK	DATE OF CASTING	DATE OF TESTING	LOAD TAKEN (KN)	SIZE mm (L/B)	COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	AVG. COMPRESSIVE STRENGTH N/mm <sup>2</sup>	WEIGHT OF CUBE kg.	Requirement as per IS: 456-2000 Table-II for 28-days comp. Strength
1	15-06-2022	13-07-2022	612.3	150.0	27.21	28.1 Say 28.5 28-DAYS COMPRESSIVE STRENGTH	8.233	(a) Average of 3 Cubes shall not be less than 24N/mm2 (b) Individual Result ≥ 14 N/mm2
				150.0				
2	15-06-2022	13-07-2022	638.5	150.0	28.38		8.254	
				150.0				
3	15-06-2022	13-07-2022	648	150.0	28.80		8.268	
				150.0				

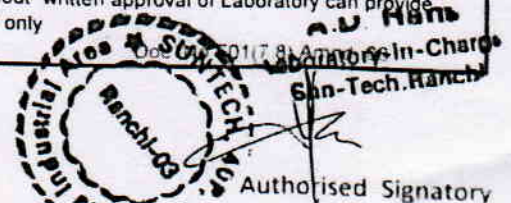
Remark:-Sample Pass as per Table-II of IS: 456-2000.

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Declarations: 1 Sample will be retained for three months from the testing 2 The test results relates only to the sample as received or sampled for testing and as per applicable parameters 3 The report can not be used as an evidence in the court of law without written approval of Laboratory can provide assurance that parts of a report are not taken out of context 4 All disputes subject to Ranchi Jurisdiction only



Reviewed By: *Lee*



Authorised Signatory





# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL:- 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/11/5131	ULR No.	TC543222000005231F	Job Code:	M 1781022
Date of receipt	15-10-2022	Date of Issue of Test Report	05-11-2022		
Customer's Name & Address	सहायक अभियंता सारखण्ड शिक्षा परियोजना सरायकेला खरसावर्वा				
	C/O. के०भी०पी०एस०सी०एस०एस० बलिका उच्च विद्यालय सरायकेला भवन निर्माण कार्य मे प्रयुक्त कंक्रीट				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT LTD				
Customer's Letter No.	LETTER REF. NO.:-SSA/2022/1013				
AGREEMENT NO:- 76/SBD/2021/22      DATE:- 10/12/2021					

### SAMPLE DETAILS:

Sample No.	94195	Material/ Item:	03 Nos CONCRETE CUBES M-20 Casted on Date 08/10/2022 as Declared by Customer
Material Condition	GOOD	Environmental condition:	Laboratory Temperature 28°C
Standard Applicable for testing	IS:516 P1 2021, CL SEC1.	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	15-10-2022	Sample analysis End date:	05-11-2022

## TEST RESULTS

MATERIAL	CONCRETE CUBE LOC:- RCC WORK IN FLOOR BEAM & ROOF SLABS OF TOILET, MAIN GATE AND BOUNDARY WALL.	Discipline/ Group	MECHANICAL/BUILDING MATERIAL
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### COMPRESSIVE STRENGTH OF CONCRETE CUBE (IS:516 P1 2021, CL SEC1.)

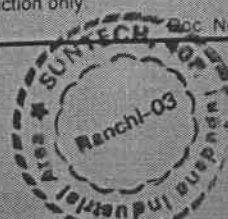
S.No. MARK	DATE OF CASTING	DATE OF TESTING	LOAD TAKEN (KN)	SIZE mm (L/B)	COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	AVG. COMPRESSIVE STRENGTH N/mm <sup>2</sup>	WEIGHT OF CUBE kg.	Requirement as per IS: 456-2000 Table-1f for 28-days comp. Cubes shall not be less than 24 N/mm <sup>2</sup> (b) Individual Result $\geq 16$ N/mm <sup>2</sup>	CONFORMITY
1	08-10-2022	05-11-2022	635.2	150.0	28.23	28.9 Say 29.0 28-DAYS COMPRESSIVE STRENGTH	8.215		YES
				150.0					
2	08-10-2022	05-11-2022	649.2	150.0	28.85		8.254		YES
				150.0					
3	08-10-2022	05-11-2022	666	150.0	29.60		8.287		YES
				150.0					

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context 4. All disputes subject to Ranchi Jurisdiction only.

Reviewed By:

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Authorised Signatory  
Sun-Tech Ranchi



# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL:- 7898266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



## TEST REPORT

Test Report No.	ST/TR/22/11/5130	ULR No.	TC543222000005230F	Job Code:	M 1781022
Date of receipt	15-10-2022	Date of issue of Test Report	05-11-2022		
Customer's Name & Address	सहायक अभियंता आरखण्ड शिक्षा परियोजना सरायकेला खरसावों				
	C/O. के०मी०पी०एस०डी०एस०एस० बलिका उच्च विद्यालय सरायकेला भवन निर्माण कार्य मे प्रयुक्त कंकीट				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT LTD				
Customer's Letter No.	LETTER REF. NO.:-SSA/2022/1013				
AGREEMENT NO:- 76/SBD/2021/22      DATE:- 10/12/2021					

### SAMPLE DETAILS:

Sample No.	94194	Material/ Item:	03 Nos CONCRETE CUBES M-20 Casted on Date 08/10/2022 as Declared by Customer
Material Condition	GOOD	Environmental condition:	Laboratory Temperature 28°C
Standard Applicable for testing	IS:516 P1 2021, CL SEC1.	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF, SAMPLING DONE BY LAB:ORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	15-10-2022	Sample analysis End date:	05-11-2022

### TEST RESULTS

MATERIAL	CONCRETE CUBE LOC:- RCC WORK IN FLOOR BEAM & ROOF SLABS OF TOILET, MAIN GATE AND BOUNDARY WALL.	Discipline/ Group	MECHANICAL/BUILDING MATERIAL
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#### COMPRESSIVE STRENGTH OF CONCRETE CUBE (IS:516 P1 2021, CL SEC1.)

S.No. MARK	DATE OF CASTING	DATE OF TESTING	LOAD TAKEN (KN)	SIZE mm (L/B)	COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	AVG. COMPRESSIVE STRENGTH N/mm <sup>2</sup>	WEIGHT OF CUBE kg.	Requirement as per IS: 456-2000 Table-II for 28-days comp. Cubes shall not be less than 24 N/mm <sup>2</sup> (b) Individual Resu ≥ 16 N/mm <sup>2</sup>	CONFORMITY
1	08-10-2022	05-11-2022	612.5	150.0	27.22	28.1 Say 28.5 28-DAYS COMPRESSIVE STRENGTH	8.230		YES
				150.0					
2	08-10-2022	05-11-2022	635.6	150.0	28.25		8.247		YES
				150.0					
3	08-10-2022	05-11-2022	648.2	150.0	28.81	8.289	YES		
				150.0					

\*\*\*\*\*END OF REPORT\*\*\*\*\*

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context 4. All disputes subject to Ranchi Jurisdiction only

Reviewed By:



Authorized Signatory





## TEST REPORT

Test Report No.	ST/TR/22/10/4939	ULR No.	TC54322200005039F	Job Code:	M 1781022
Date of receipt	15-10-2022	Date of Issue of Test Report	22-10-2022		
Customer's Name & Address	सहायक अभियंता				
	झरखण्ड शिक्षा परियोजना				
	सरायकेला खरसावों				
	C/O.. के 0 मी 0 पी 0 एस 0 डी 0 एस 0 एस 0 बलिका उच्च विद्यालय सरायकेला मवन निर्माण कार्य मे प्रयुक्त कंक्रीट				
AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT LTD					
AGREEMENT NO:- 76/SBD/2021/22      DATE:- 10/12/2021					
Customer's Letter No.	LETTER REF. NO.: -SSA/2022/1013				

### SAMPLE DETAILS:

Sample No.	94199	Material/ Item:	06 NOS. FLY ASH BRICKS
Material Condition	GOOD	Environmental condition:	Laboratory Temperature 28°C
Standard Applicable for testing	IS:12894:2002	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	15-10-2022	Sample analysis End date:	22-10-2022

### TEST RESULTS

MATERIAL	FLY ASH BRICK MARK: MBR(100A)	Discipline/ Group	BUILDING MATERIAL
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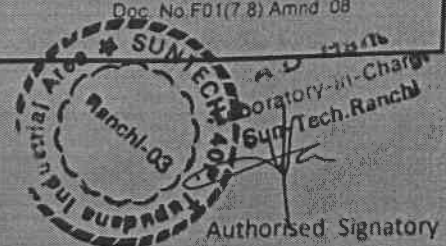
#### TESTING OF BRICKS

S. No.	NAME OF THE TEST	TEST METHOD	TEST RESULTS	Requirment Specification IS:12894:2002	CONFORMITY
1	AVERAGE COMPRESSIVE STRENGTH (AVERAGE OF 3 NOS. BRICKS) (N/mm <sup>2</sup> )	IS:3495-1992 PART-I RA 2011	10.5	10.0 N/mm <sup>2</sup> Min.	YES
2	AVERAGE WATER ABSORPTION (AVERAGE OF 5 NOS. BRICKS) (%)	IS:3495-1992 PART-II RA 2011	13.94	20% Max.	YES
3	EFFLORESCENCE	IS:3495-1992 PART-III RA 2011	SLIGHT	Moderate, min. for upto class 12.5	YES

\*\*\*\*\*END OF REPORT\*\*\*\*\*

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Doc. No F01(7.8) Amnd 08



Reviewed By: *hsh*



## TEST REPORT

Test Report No.	ST/TR/22/09/4938	ULR No.	TC543222000005038F	Job Code:	M 1781022
Date of receipt	15-10-2022	Date of Issue of Test Report	22-10-2022		
Customer's Name & Address	सहायक अभियंता आरखण्ड शिक्षा परियोजना, सरायकेला-खरसाची।				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT. LTD.				
	C/o. के०भी०पी०एस०एस० बालिका उच्च विद्यालय सरायकेला भवन निर्माण कार्या में प्रयुक्त कंक्रीट।				
Customer's Letter No.	REF. NO.: SSA/2022/2013		SARAIKELA, DATE: 15-10-2022		

### SAMPLE DETAILS

Sample No.	94197	Material/ Item:	1 SEALED BAG SAMPLE OF 20mm COARSE AGGREGATES
Material Condition	SEALED	Environmental condition:	Laboratory Temperature at time Analysis : 28°C
Standard Applicable for testing	IS:383 & (Clause 4.3) IS: 383-1970	Deviation in testing from Standard	NO
SAMPLING	Done by Laboratory		Done by Customer
IF, SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	15-10-2022	Sample analysis End date:	22-10-2022

### TEST RESULTS

MATERIAL		COARSE AGGREGATE	Discipline/ Group	MECHANICAL / BUILDINGS MATERIALS		
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	Requirements as per As per clause 3 of IS: 383-1970	Conformity
1	AGGREGATE IMPACT VALUE	%	25.0	IS:2386-P- IV-1963 RA 2011	45.0% Max.	YES
2	AGGREGATE CRUSHING VALUE	%	21.00	IS:2386- PART-IV-1963 RA 2011	30.0% Max.	YES
3	COMBINED FLAKINESS & ELONGATION INDEX	%	29.00	IS:2386-P-1-1963 RA 2011	40.0 % Max.	YES
4	SOUNDNESS by (5 CYCLES) Na <sub>2</sub> SO <sub>4</sub>	%	0.23	IS:2386- PART-5-1963 RA 2011	12.0% Max.	YES
S. No.	Sieve Size (mm)	% Passing	Requirements for 40mm Aggregate IS:383 As Per Table II (Clauses 4.1 & 4.2)	Remarks	Conformity	
1	80.00	100	100		YES	
	40.00	95	90 - 100		YES	
	20.00	39	30 - 70		YES	
	10.00	12	10 - 35		YES	
	4.75	1	0 - 5		YES	

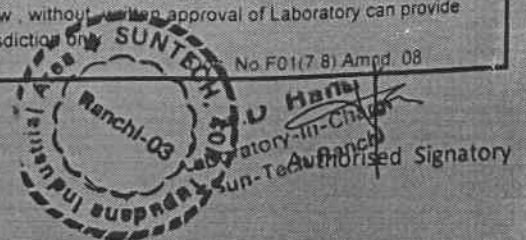
\*\*\*\*\*END OF REPORT\*\*\*\*\*

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

No F01(7.8) Ampd. 08

Reviewed By: hcl

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# Sun-Tech

40 P Tupudana Industrial Area Ranchi-834003, Jharkhand

TEL:- 7808266661/2/3

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## TEST REPORT

Test Report No.	ST/TR/22/09/4937	ULR No.	TC54322200005037F	Job Code:	M 1781022
Date of receipt	15-10-2022	Date of Issue of Test Report	22-10-2022		
Customer's Name & Address	सहायक अभियंता झारखण्ड शिक्षा परियोजना, सरायकेला-खरसाही।				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT. LTD.				
	C/o. के०भी०पी०ए०स०ए०स० बालिका उच्च विद्यालय सरायकेला पवन निर्माण कार्य में प्रयुक्त कंक्रीट।				
Customer's Letter No.	REF. NO.: SSA/2022/2013	SARAIKELA,			DATE: 15-10-2022

### SAMPLE DETAILS

Sample No.	94196	Material/ Item:	1 BAG SAMPLE OF FINE AGGREGATE
Material Condition	SEALED	Environmental condition:	Laboratory Temperature at time Analysis : 25°C
Standard Applicable for testing	IS:383 & (Clause 4.3)	Deviation in testing from Standard	NO
SAMPLING	Done-by-Laboratory		Done by Customer
IF, SAMPLING DONE BY LABORATORY	Sampling Location		NA
	Sampling Method/ Sampling Plan		NA
	Environmental Condition		NA
Sample analysis Start date:	15-10-2022	Sample analysis End date:	22-10-2022

### TEST RESULTS

MATERIAL	FINE AGGREGATE SOURCE:- CHANDANKIYARI	Discipline/ Group	MECHANICAL / BUILDINGS MATERIALS		
S. No.	Sieve Size (mm)	% Passing	Requirements/Specificat ion for Sand Zone II as per IS:383 & (Clause 4.3)	Remarks	Conformity
1	10	100	100	The Sand Falls Under Sand Zone-II	YES
	4.75	97	90 - 100		YES
	2.36	89	75 - 100		YES
	1.18	71	55 - 90		YES
	0.600μ	41	35 - 59		YES
	0.300μ	11	8 - 30		YES
	0.150μ	2	0 - 10		YES
FINENESS MODULUS		2.89			-

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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Doc. No F01(7 B) Amed. 08



Reviewed By: hdy



A. D. Hans  
Laboratory In-Charge  
Sun-Tech Ranchi

Authorised Signatory

# Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/2/3

## TEST REPORT

Test Report No.	ST/TR/22/09/4937A	ULR No.	TC54322200000	Job Code:	M 1781022
Date of receipt	15-10-2022	Date of Issue of Test Report	22-10-2022		
Customer's Name & Address	सहायक अभियंता आरखण्ड शिक्षा परियोजना, सरायकेला-खरसाचौ।				
	AGENCY:- M/S SRI RAJENDRA PRASAD SAHU CONSTRUCTION PVT. LTD.				
	C/o. के०भी०पी०एस०एस० बालिका उच्च विद्यालय सरायकेला भवन निर्माण कार्य में प्रयुक्त कंक्रीट।				
Customer's Letter No.	REF. NO.: SSA/2022/2013		SARAIKELA, DATE: 15-10-2022		

### SAMPLE DETAILS

Sample No.	94196	Material/ Item:	1 BAG SAMPLE OF FINE AGGREGATE		
Material Condition	SEALED	Environmental condition:	Laboratory Temperature at time Analysis : 25°C		
Standard Applicable for testing	IS: 2386-Part II-1963 RA 2011	Deviation in testing from Standard	NO		
IF, SAMPLING DONE BY LABORATORY	Done by Laboratory		Done by Customer		
	Sampling Location		NA		
	Sampling Method/ Sampling Plan		NA		
Environmental Condition		NA			
Sample analysis Start date:	15-10-2022	Sample analysis End date:	22-10-2022		

### TEST RESULTS

MATERIAL	FINE AGGREGATE SOURCE:- CHANDANKIYARI	Discipline/ Group	MECHANICAL / BUILDINGS MATERIALS			
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	Requirements as per MORTH	Conformity
1	DELETERIOUS MATERIALS	%	1.08	IS:2386-P- II-1963 RA 2011	5.0% Max.	YES
2	SILT CONTENT	%	1.26		-	-

\*\*\*\*\*END OF REPORT\*\*\*\*\*

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Reviewed By: hes

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A.D. Rao  
Laboratory-in-Charge  
Sun-Tech Ranchi

Authorised Signatory