ARC TESTING LABORATORY

NABL ACCREDITED & ISO:9001:2008 CERTIFIED LABORATORY

Kh.No.- 42/9/4, Village - Badli, Near Aastha Hospital, New Delhi - 110042

Phone: 011-64642265, 9818555221, 9599221236

Email:- arctesting.lab@gmail.com, website:- www.arctestinglab.com

TEST REPORT

Issued To: Executive Engineer C-5
Delhi Urban Shelter Improvement Board
Govt. of NCT of Delhi, 01, Kilokari
Ring Road, Opp. Maharani Bagh
New Delhi-110014

Report No.: BD-250116002
Job Order No.: BD-2501002
Ref. No.: D-1149/EE C-5/DUSIB/2015-16
Sample Received On: 25/01/2016
Period of Testing: 25/01/2016-30/01/2016
Date of Report: 01/02/2016

Sample Name : Kota Stone Slab 25mm thick
Sample Quantity : 3 Nos.
Sample Condition : Good (Loose)
Name of Work : Pay & Use (Jan Suvidha Complex).
Sub-Head : Up-gradation & remodeling of 80 seater JSC in JJC Indira Gandhi Camp No.-2 Jeevan Nagar near Police Post Hari Nagar Ashram.
Name of Agency : M/s Durga Construction Co.
A. L. No. : AL-07/WH/4945/EE C-5/DUSIB/2015-16/D-323, dt. 08.06.2015

S.No.	Test	Test Method	Result
1.	**Water Absorption**, % by wt.	IS: 1124-1974	0.21
2.	**Hardness** (Moh's Scale)	IS: 13630(P-13)-2006 (Guideline)	5

****

Lab Incharge

ARC TESTING LABORATORY DELHI

Authorised Signatory

(1) The result listed refer only to tested sample and applicable parameters. Endorsement of product is neither inferred nor Implied.
(2) Total liability of our lab is limited of the invoiced amount.
(3) Sample will be destroyed after 90 days from date of test report unless otherwise specified.
(4) This report not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media our special permission in writing .
(5) Report refer to the sample submitted to us and not drawn by us unless mentioned otherwise.

R-1198

RECEIVED 04 JAN 2016

To

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Part I

Dispatch No D-1068/EEC-5/2015-16 ---------- Date: 04-01-16

Sub: Testing of Bricks/~~Brick tiles~~ for Compressive Strength/~~Dimension~~.

A.L. No.: AL-07/WH/4945/EE C-5/DUSIB/2014-15/D- 323 dt. 08.06.2015.

1. Name of Work:- Pay & Use (JSC)

   Sub-Head:- Up-gradation & remodelling of 80 seater JSC in JJC Indira Gandhi Camp, Jeevan Nagar near Police Post, Hari Nagar Ashram.

2. Details from where sample is collected ----------Site ----------
3. Name of Circle/Division: ----------II/C-5----------
4. Name of Junior Engineer: ----------
5. Name of Assistant Engineer: Sh. R. C. Navani
6. Name of Executive Engineer: Sh. S. K. Varshney ----------
7. Name of Contractor/Agency: M/S Durga Const. Co.
8. Name of Officer collecting sample: Sh. R. C. Navani
9. Date of collection: 31-12-2015/31-12-2015 ----------
10. Date of testing: 04-01-2016----------
11. Identification Mark: D 卐 K----------
12. Class designation: 75----------
13. No. of specimen sent for testing: 5+10 Nos.----------

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked----R------has/have been taken in my presence which represent 6000Nos.quantity of works/supply made at site/store.

Signature of AE
In charge of work

Signature of Contractor

Executive Engineer, C-5
Dy. No. 1955
Date 20/01/16
DUSIB, Govt. of NCT of Delhi

Signature of Officer
taking sample (EE/AE)

Part II **TEST REPORT**

No. S.E(Q.C)/A.E/2015-16/D-1207

Date: 8/1/16.

Test No. 1198 Date: 4.1.16

Date of Receipt: 4.1.16

Date of Testing: 4.1.16

(A) COMPRESSIVE STRENGTH

S. No	Dimensions Length (cms)	Width (cms)	Area (sq.cm)	Maximum Strength. Failure (T)	Compressive Strength Failure (kg/sq.cm)	Av. Comp. Strength. Kg/sq.cm
1.	21.90 ×	10.60 =	232.14	21.00	90.46	ACCEPTABLE
2.	22.10 ×	10.80 =	238.68	22.00	92.17	
3.	21.90 ×	10.70 =	234.33	20.00	85.35	88.26
4.	22.20 ×	10.60 =	235.32	19.50	82.86	
5.	22.00 ×	10.80 =	237.60	21.50	90.48	

Tested in my presence

(B) DIMENSION TEST FOR 20 BRICKS

1. Length :
2. Width : — NOT ASKED FOR —
3. Height :

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

8/1/16

Assistant Engineer (QC-Lab)
DUSIB, Vikas Kutir, ITO

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

Copy to:-
1. E.E C-5
2. O/C

AE-II 20/01/16.

S.E.(QC)/A.E.(LAB)// 15/10-1207

8/1/16.

C-5

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

R-1200

RECEIVED 04 JAN 2016

To

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Part I

Dispatch No D-1069/EEC-5/2015-16 Date: 04-01-16

Sub: Testing of Coarse sand for particle size distribution.

A.L. No.: AL-07/WH/4945/EE C-5/DUSIB/2014-15/D- 323 dt. 08.06.2015.

1. Name of Work:- Pay & Use (JSC)
   Sub-Head:- Up-gradation & remodelling of 80 seater JSC in JJC Indira Gandhi Camp, Jeevan Nagar near Police Post, Hari Nagar Ashram.
2. Details from where sample is collected ----------Site ----------
3. Name of Circle/Division: ----------II/C-5----------
4. Name of Junior Engineer: ----------
5. Name of Assistant Engineer: Sh. R. C. Navani
6. Name of Executive Engineer: Sh. S. K. Varshney ----------
7. Name of Contractor/Agency: M/S Durga Const. Co.
8. Name of Officer collecting sample: Sh. R. C. Navani
9. Date of collection: 31-12-2015----------
10. Quantity of sample sent for testing: 10 Kg----------

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked----A----has/have been taken in my presence which represent 22.66 Cum. quantity of works/supply made at site/store.

Signature of AE
In charge of work

Signature of Contractor

Signature of Officer
taking sample (EE/AE)

Part II **TEST REPORT**

No. SE (QC)/AE (Lab.)/2011-12 /D- 1208 Date: 8/1/16

Test No. 1200 Date: 4.1.16

Date of Receipt: 4.1.16

Date of testing: 4.1.16

Executive Engineer, C-5
Dy. No. 1956
Date 20/01/16
DUSIB, Govt. of NCT of Delhi

(A) SILT CONTENT:

Height of Silt :
Height of Sand :
% age of silt content:

— NOT ASKED FOR —

(B) PARTICLE SIZE DISTRIBUTION

Weight of sample tested: 500 gram

S.No	Sieve Size	Weight retained in (gms)	% age wt. retained	Cumulative %age retained	% age passing	Reqd. % age passing as per specs.	
1.	10mm	0.00	0.00	0.00	100.00	100	ACCEPTABLE
2.	4.75mm	0.00	0.00	0.00	100.00	90-100	W.R.I-
3.	2.36mm	62.00	12.40	12.40	87.60	85-100	Zone-III
4.	1.18mm	50.00	10.00	22.40	77.60	75-100	Sand
5.	600micron	48.00	9.60	32.00	68.00	60-79	In
6.	300micron	217.00	43.40	75.40	24.60	12-40	Acceptable
7.	150micron	69.00	13.80	89.20	10.80	0-10	Super
8.	Pan	54.00	10.80	100.00	0.00	—	

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

Assistant Engineer (QC-Lab)
DUSIB, Vikas Kutir, ITO

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

Copy to:-
1. E.E C-5
2. O/C

AE-II 20/01/16.

S.E.(QC)/A.E.(LAB) 15-10-2008

8/1/16.

EE(S) C-5

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

Executive Engineer, C-5
Dy. No 1533
Date 18/11/15
DUSIB, Govt. of NCT of Delhi

R. No 876 (Seizure Slip.

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Part I

Dispatch No ---------- Seizure Slip ---------- Date: RECEIVED 13 OCT 2015

Sub: Testing of Bricks/Brick tiles for Water Absorption / Efflorescence.

A. L. No. ---------- Date:

1. Name of work: Pay & Use (JSC) SH:- Upgradation & Remodelling
   SH: of 80 Seats JSC in JJC Indira Gandhi Campsite Hari Nagar Ashram
2. Details from where sample is collected — From Stack Near Site
3. Name of Circle/Division: — Circle-2 / C-5
4. Name of Junior Engineer: —
5. Name of Assistant Engineer: — Sh. R.C. Nawani
6. Name of Executive Engineer: — Sh. S.K. Vaishney
7. Name of Contractor/Agency: — M/s Durga Const. Co.
8. Name of Officer collecting sample: — Sh Anil Kr AE QC-1
9. Date of collection/Date of filling frog: — 13.10.15
10. Date of testing: —
11. Identification Mark: — KM1
12. Class designation: — 75
13. No. of specimen sent for testing: — 10 Nos

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked----------has/have been taken in my presence which represent---------quantity of works/supply made at site/store.

Signature of JE Incharge of work | Signature of Contractor | Signature of Officer taking sample (EE/AE)

Part II **TEST REPORT**

No. SE (QC)/AE (~~Lab.~~)/2014-15/D- 955 Date: 3/11/15

Test No. 876 Date: 13.10.15

Date of Receipt: 13.10.15

(A) WATER ABSORPTION

Date of testing up to: 16.10.15

S. No	Dry. Wt. (gms)	Wet. Wt (gms)	Water Absorbed (gms)	% age water absorbed	Average water absorption
1.	2448	2765	317	12.95	ACCEPTABLE
2.	2543	2899	356	14.00	
3.	2425	2818	393	16.21	14.36 %
4.	2509	2888	379	15.11	
5.	2478	2813	335	13.52	

(B) EFFLORESCENCE:

Date of testing up to: 3.11.15

Efflorescence found: ~~Nil~~ / Slight / ~~Moderate~~ / ~~Heavy~~

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

Assistant Engineer (QC-~~Lab~~)
DUSIB, Vikas Kutir, ITO
Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

3/11/15

Copy to:-
1. E.E (Q.C)/A.E (Q.C)-I
2. E.E C-5
3. O/C

AE-II 18/11/15

15/D-955

S.E.(SC)/A.E.(LAB)

3/11/15

Dt.

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

C-5

~~EE(QC)AE~~

EE(S)

R. No 878

RECEIVED 13 OCT 2015

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Part I

Dispatch No ---------- Seizure slip ---------- Date:

Sub: Testing of Stone Aggregate of nominal size.....mm for Grading/Impact test.

A. L. No. ----------

1. Name of work:- Pay and Use (JSC) Date:
   SH: Upgradation & remodeling of 80 seater JSC in JJC Indra Camp no 2 Hari Nagar Ashram
2. Details from where sample is collected Slack near site
3. Name of Circle/Division C-2 / C-5
4. Name of Junior Engineer –
5. Name of Assistant Engineer Sh. R.C. Nawani
6. Name of Executive Engineer Sh. S.K. Vaishney
7. Name of Contractor/Agency M/s Durga Const. Co.
8. Name of Officer collecting sample Sh. Anil Kumar AE
9. Date of collection: 12.10.15
10. Size and description of sample 20 mm
11. Quantity of sample sent for testing

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/samples marked----------has/have been taken in my presence which represent---------quantity of works/supply made at site/store.

Signature of JE In charge of work | Signature of Contractor | Signature of Officer taking sample (EE/AE)

Executive Engineer, C-5 Dy. No. 1446 Date 30/10/15 DUSIB, Govt. of NCT of Delhi

Part II **TEST REPORT**

No. SE (QC)/AE (Lab.)/2011-12 /D- 883

Test No. 878 Date: 13.10.15 Date: 14/x/15

Date of Receipt: 13.10.15

Date of testing: 14.10.15

(A) GRADING/SIEVE ANANLYSIS:

Wt. of sample tested: 2000 gram

S No	Sieve Size	Weight retained In (kgm/gms)	% age wt. retained	Cumulative %age retained	% age passing	Reqd. % age passing as per specification
1.	40 mm	0.00	0.00	0.00	100.00	100
2.	20 mm	75.00	3.75	3.75	96.85	85-100
3.	10 mm	1887.00	94.35	98.10	1.90	0-20
4.	4.75"	38.00	1.90	100.00	0.00	0-5
5.	Pan	0.00	0.00	100.00	–	
6.						

ACCEPTABLE

(B) IMPACT TEST

Acceptable for unpraded sieve ages

S. No	Total Wt. of sample (W_1) (gms)	Wt. of fines passing 2.36 mm IS Sieve (W_2) (in gms)	% impact value $W_2/W_1 \times 100$	Average impact Value % age
1.	344	54	15.70	
2.	321	48	14.95	15.33%

ACCEPTABLE

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

Sh Navani AE
31/10/15

14/10/15

Assistant Engineer (QC-Lab)
DUSIB, Vikas Kutir, ITO

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

Copy to E.E (Q.C) civil / A.E (Q.C) I
E.E C-5

15/D-883

14/10/15

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

5.5

To

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

P. No 877

RECEIVED 13 OCT 2015

Part I

Dispatch No ---------- Date:

Sub: Testing of Coarse/fine sand for particle size distribution/silt content.

Sample '4'

A. L. No. ---------- Date:

1. Name of work: Pay & Use (JSC)
   SH: Upgradation & remodelling of 80 seats JSC in JJC Indira Camp No 2 Hari Nagar Ashram
2. Details from where sample is collected: From stock near site (100 yd appro)
3. Name of Circle/Division: Circle-II / C-5
4. Name of Junior Engineer:
5. Name of Assistant Engineer: Sh. R.C. Nayani
6. Name of Executive Engineer: Sh. S.K. Vashney
7. Name of Contractor/Agency: M/s Durga Const Co.
8. Name of Officer collecting sample. Mr Anil Kum AE(QC)
9. Date of collection: 12.10.15
10. Quantity of sample sent for testing:

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked----------has/have been taken in my presence which represent---------quantity of works/supply made at site/store.

Signature of JE Incharge of work | Signature of Contractor | Signature of Officer taking sample (EE/AE)

Part II **TEST REPORT**

No. SE (QC)/AE (Lab.)/2011-12 /D- 882 Date: 14/10/15

Test No. 877 Date: 13.10.15

Date of Receipt: 13.10.15

Date of testing: 13.10.15 | 14.10.15

(A) SILT CONTENT:

Height of Silt : 8.00 ml

Height of Sand : 105.00 ml

% age of silt content: 7.62%

ACCEPTABLE

Executive Engineer, Cell
Dy. No. 1445
Date 30/10/15
DUSIB, Govt. of NCT of Delhi

(B) PARTICLE SIZE DISTRIBUTION

Weight of sample tested: 500 gms

S.No.	Sieve Size	Weight retained in (gms)	% age wt. retained	Cumulative %age retained	% age passing	Reqd. % age passing as per specs.	
1.	10mm	0.00	0.00	0.00	100.00	100 ACCEPTABLE	
2.	4.75mm	0.00	0.00	0.00	100.00	90-100	
3.	2.36mm	64.00	12.80	12.80	87.20	85-100	W.r.t. Zone-III Sand is Acceptable type.
4.	1.18mm	38.00	7.60	20.40	79.60	75-100	
5.	600micron	32.00	6.40	26.80	73.20	60-79	
6.	300micron	227.00	45.40	72.20	27.80	12-40	
7.	150micron	83.00	16.60	88.80	11.20	0-10	
8.	Pan	56.00	11.20	100.00	0.00	—	

Only testing has been conducted in this laboratory. The sample/samples has/have been collected & handed over by the field staff of the concerned division.

Sh Nayani AE 31/10/15

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

14/10/15

Copy to:- (1) E.E (Q) Civil / A.E (Q) II
(2) E.E C-5
P/C

No. E.E.(QC)/A.E.(LAB)/ 15/D-882 Dt. 14/8/15

EE(S) C-5

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

R. No 879

To

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Sample 'B'

Part I

Dispatch No ---------- Seizure Slip ---------- Date:

Sub: Testing of Coarse/~~fine~~ sand for particle size distribution/silt content.

A. L. No. ---------- Date:

1. Name of work: Pay & Use (JSC)
   SH: Upgradation & remodelling of 80 seater JSC in JJC Indira Camp Stall Near Site (250 Gt.) appx No 2 Hari Nagar Ashram
2. Details from where sample is collected
3. Name of Circle/Division: Circle-2/ C-5
4. Name of Junior Engineer: —
5. Name of Assistant Engineer: Sh. R.C. Navani
6. Name of Executive Engineer: Sh. S.K. Varshney
7. Name of Contractor/Agency: M/s Durga Const. Co.
8. Name of Officer collecting sample. Mr Anil Kumar AE QC-I
9. Date of collection: 12.10.15
10. Quantity of sample sent for testing:

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/samples marked----------has/have been taken in my presence which represent---------quantity of works/supply made at site/store.

Signature of JE Incharge of work | Signature of Contractor | Signature of Officer taking sample (EE/AE)

Part II **TEST REPORT**

No. SE (QC)/AE (~~Lab.~~)/2011-12 /D- 884 Date: 14/x/15

Test No. 879 Date: 13.10.15

Date of Receipt: 13.10.15

Date of testing: 14.10.15

(A) SILT CONTENT:

Height of Silt : 21.00 ml

Height of Sand : 118.00 ml

% age of silt content: 17.80%

Non-Acceptable

Non-Acceptable

Executive Engineer, C-5
Dy. No. 1447
Date 30/10/15
DUSIB, Govt. of NCT of Delhi

(B) PARTICLE SIZE DISTRIBUTION Weight of sample tested: 500 gram

S.No.	Sieve Size	Weight retained in (gms)	% age wt. retained	Cumulative %age retained	% age passing	Reqd. % age passing as per specs.
1.	10mm	0.00	0.00	0.00	100.00	100
2.	4.75mm	0.00	0.00	0.00	100.00	90-100
3.	2.36mm	66.00	~~132.00~~ 13.20	13.20	86.80	85-100
4.	1.18mm	128.00	25.60	38.80	61.20	75-100
5.	600micron	31.00	6.20	45.00	55.00	60-79
6.	300micron	141.00	28.20	73.20	26.80	12-40
7.	150micron	11.00	2.20	75.40	24.60	0-10
8.	Pan	123.00	24.60	100.00	0.00	—

Non-Acceptable

W.r.t. Zone-III Sand is Non Acceptable

Only testing has been conducted in this laboratory. The sample/samples has/have been collected & handed over by the field staff of the concerned division.

URGENT
For retesting please
Sh Navani AE
31/10/15

14/10/15

Assistant Engineer
DUSIB, Vikas Kutir
Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T., of Delhi
ITO, New Delhi-02

Copy to:
(1) E.E (Q.C) civil / A.E (Q.C) I
(2) E.E C-5

15/D-884

S.E.(QC)/A.E.(LAB)/

14/10/15

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITC, New Delhi-02

C-5

EE(S)

R. No 875 (Seizure Slip)

To

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

RECEIVED 13 OCT 2015

Part I

Dispatch No ---- Seizure Slip ---- Date:

Sub: Testing of Bricks/~~Brick tiles~~ for Compressive Strength/~~Dimension~~.

A. L. No. ---- Date:

1. Name of work: Pay & Use JSC SH:- Upgradation & remodelling of 80 Seater JSC in JJC Indira Gandhi Camp No 2 Hari Nagar Ashram
   SH:
2. Details from where sample is collected: From Stack near Site
3. Name of Circle/Division: Circle-2 / C-5
4. Name of Junior Engineer: –
5. Name of Assistant Engineer: Sh. R.C. Nawani
6. Name of Executive Engineer: Sh. S. K. Vaishney
7. Name of Contractor/Agency: M/s Durga Const-Co.
8. Name of Officer collecting sample: Sh. Anil Kumar AE QC-I
9. Date of collection/Date of filling frog: 13.10.15 / 15.10.15
10. Date of testing: 19.10.15
11. Identification Mark: K.M.I
12. Class designation: .75
13. No. of specimen sent for testing: 5 No.

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sampl samples marked----------has/have been taken in my presence which represent---------quantit of works/supply made at site/store.

Executive Engineer, C-5
Dy. No. 1448
Date 30/10/15
DUSIB, Govt. of NCT of Delhi

Signature of JE Incharge of work — Signature of Contractor — Signature of Office taking sample (EE/

Part II **TEST REPORT**

No. SE (QC)/AE (~~Lab.~~)/2011-12/D- 896 Date: 19/x/15

Test No. 875 Date: 13.10.15

Date of Receipt: 13.10.15

Date of Testing: 19.10.15

(A) COMPRESSIVE STRENGTH

S. No	Dimensions Length (cms)	Width (cms)	Area (sq.cm)	Maximum Strength. Failure (T)	Compressive Strength Failure (kg/sq.cm)	Av. Comp Strength. Kg/sq.cm
1.	22.60 ×	10.80 =	244.08	20.50	83.99	91.88
2.	22.40 ×	10.60 =	237.44	24.50	103.18 / 100.00	
3.	23.00 ×	10.50 =	231.00	23.00	99.56	
4.	22.00 ×	10.40 =	228.80	24.00	104.89 / 100.00	
5.	22.80 ×	10.70 =	243.96	18.50	75.83	

ACCEPTABLE

Tested in my presence

(B) DIMENSION TEST FOR 20 BRICKS

1. Length :
2. Width : —— NOT ASKED FOR —
3. Height :

Only testing has been conducted in this laboratory. The sample/samples has/have been collec handed over by the field staff of the concerned division.

19/10/15

Assistant Engineer (QC-I
DUSIB, Vikas Kutir, IT

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T., of Delhi
ITO, New Delhi-02

Sh Nawani AE
31/10/15

Copy to:- (1) E.E (Q.C) Civil / A.E (Q.C) I
(2) E.E C-5

15/D-896

S.E.(QC)/A.E.(LAB)/

19/6/15

Dy.

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

C-5

EE(S)

To

R.No 498
RECEIVED 31 JUL 2015

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Part I

Dispatch No --473/EEC-5/2015-16---------- Date: 30/07/15

Sub: Testing of Bricks/~~Brick tiles~~ for Water Absorption / Efflorescence.

A.L. No.: 07/WH/4945/EE C-5/DUSIB/2015-16/D-323 Dated.08.06.2015

1. Name of Work:- Pay & Use (JSC)
   Sub-Head:- Up-gradation & remodelling of 80 seater JSC in JJC Indira Gandhi Camp No.- 2, Jeevan Nagar near Police Post, Hari Nagar Ashram.
2. Details from where sample is collected ----------Site ----------
3. Name of Circle/Division: ----------II/C-5----------
4. Name of Junior Engineer: ----------
5. Name of Assistant Engineer: Sh. R. C. Navani
6. Name of Executive Engineer: Sh. S. K. Varshney ----------
7. Name of Contractor/Agency: M/S Durga Construction Co.
8. Name of Officer collecting sample: Sh. R. C. Navani
9. Date of collection: 27-07-2015----------
10. Date of testing: ----------
11. Identification Mark: ~~S~~BF----------
12. Class designation: 75----------
13. No. of specimen sent for testing: 10 Nos.----------

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked----~~A~~------has/have been taken in my presence which represent 6000Nos. quantity of works/supply made at site/store.

Signature of AE
In charge of work

Signature of Contractor

Signature of Officer
taking sample (EE/AE)

Part II **TEST REPORT**

No. S.E(Q.C)/A.E/2015-16/D-565 Date: 24/8/15

Test No. 498 Date: 30.7.15

Date of Receipt: 31.7.15

Executive Engineer (QC-5) Dy. No. 1157 Date 9/9/15 DUSIB, Govt. of NCT of Delhi

(A) WATER ABSORPTION

Date of testing up to: 4.8.15

S. No	Dry. Wt. (gms)	Wet. Wt (gms)	Water Absorbed (gms)	% age water absorbed	Average water absorption
1.	2425	2797	372	15.34	ACCEPTABLE
2.	2416	2789	373	15.44	
3.	2446	2825	379	15.49	15.47
4.	2345	2713	368	15.69	
5.	2394	2762	368	15.37	

(B) EFFLORESCENCE:

Date of testing up to: 20.8.15

Efflorescence found: Nil ✓ / ~~**Slight**~~ / ~~**Moderate**~~ / ~~**Heavy**~~

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

24/8/15

Assistant Engineer (QC-Lab)
DUSIB, Vikas Kutir, ITO
Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

Sh Navani

Copy to:-
1. E.E C-5
2. O/C

10/09/15

15/D-565 24/8/15

C-5

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

SUNBEAM AUTO PVT. LTD.

38/6, K. M. Stone, Delhi-Jaipur Highway, Narsingpur, Gurgaon - 122 001 (Haryana) India
Ph.: +91-124-4129254, **Fax:** +91-124-4129751/52
E-mail: lab@sunbeamauto.com **URL :** sunbeamlabs.com

TESTING, RESEARCH & DEVELOPMENT CENTRE

Certificate No. 412792

TEST CERTIFICATE

Party Name : EXECUTIVE ENGINEER C-5
D.U.S.I.B GOVT.OF NCT OF DELHI
01,KILOKARI,RING ROAD,
OPP.MAHARANI BAGH,NEW DELHI-14

Date : 25/08/2015

Job Order No. : 508-711-0823

Reference No. : D-476/EEC-5/2015-16
DT.31.7.15
Date : 17.08.2015

Sample Particulars : ONE SAMPLE OF OPC CEMENT MARKED AS BIRLA UTTAM NAME OF WORK-PAY & USE (JSC) SH: UP-GRADATION & REMODELLING OF 80 SEATER JSC IN JJC INDIRA GANDHI CAMP NO.-2, JEEVAN NAGAR NEAR POLICE POST, HARI NAGAR ASHRAM AGENCY: SH. DURGA CONSTRUCTION CO. WAS RECEIVED.

RESULTS

Cement Gr.43 Test As Per IS : 4031 & 4032

S.No.	Test	Results	Specified As Per IS : 8112 - 2013	Conformity
	Chemical Test			
1	Lime Saturation Factor	0.87	0.66 - 1.02	Yes
2	Ratio Of % Alumina To That Of % Iron Oxide (Al_2O_3/Fe_2O_3)	1.21	0.66 Min	Yes
3	Magnesia (Mgo)	1.63%	6.0% Max	Yes
4	Total Sulphate Content (As So_3)	1.73%	3.5% Max	Yes
5	Insoluble Residue	3.44%	4.0% Max	Yes
6	Loss On Ignition	2.69%	5.0% Max	Yes
7	Chloride (As Cl)	0.045%	0.10% Max	Yes
	Physical Test			
1	Fineness (Blaine)	295 M^2/kg	225 M^2/kg (Min)	Yes
2	Setting Time			
	I) Initial	155 Minutes	Not Less Than 30 Minutes	Yes
	II) Final	255 Minutes	Not More Than 600 Minutes	Yes
3	Soundness			
	Le - Chatelier Expansion	1.5 mm	10mm (Max)	Yes
4	Compressive Strength			
	3 Days	28.0 Mpa	23 Mpa (Min)	Yes
	7 Days	37.0 Mpa	33 Mpa (Min)	Yes

Remarks : The Sample Conforms To IS : 8112 - 2013 Grade Of 43 OPC Cement W.R.T Above Test.

***** End of Results *****

Sunbeam Auto Pvt. Ltd. ★ Testing R & D Center ★

A.G.M.

Authorised Signatory

1. Sample will be retained only for one month.
2. The results listed refer only to the tested samples and applicable parameter. Endorsement of product is neither inferred nor implied.
3. Total liability of our works is limited to invoiced amount.
4. This report can not be used as an evidence in a court of law without prior permission of laboratory.

SUNBEAM AUTO PVT. LTD.

38/6, K. M. Stone, Delhi-Jaipur Highway, Narsingpur, Gurgaon - 122 001 (Haryana) India
Ph.: +91-124-4129254, **Fax:** +91-124-4129751/52
E-mail: lab@sunbeamauto.com **URL :** sunbeamlabs.com

TESTING, RESEARCH & DEVELOPMENT CENTRE

Certificate No. 412256

TEST CERTIFICATE

arty Name : EXECUTIVE ENGINEER C-5
D.U.S.I.B GOVT.OF NCT OF DELHI
01,KILOKARI,RING ROAD,
OPP.MAHARANI BAGH,NEW DELHI-14

Date : 18/08/2015

Job Order No. : 508-711-0766

Reference No. : D-478/EEC-5/2015-16 DT.31.7.15

Date : 14.08.2015

Sample Particulars : ONE SAMPLE OF WATER MARKED AS NAME OF WORK-PAY & USE(JSC) SH:UP-GRADATION & REMODELLING OF 80 SEATER JSC IN JJC INDIRA GANDHI CAMP NO.2,JEEVAN NAGAR NEAR POLICE POST, HARI NAGAR ASHRAM AGENCY: SH. DURGA CONSTRUCTION CO. WAS RECEIVED.

RESULTS

(As Per IS:456-2000)

S.No.	Tests	Results	IS:Limit	Protocol	Conformity
a.	**Alkalinity Test**				
	(Volume Of 0.02N H_2SO_4 Required To Neutralize 100ml Sample Using Mixed Indicator (ml))	6.8	25.0 Max	IS:456	Yes
b.	**Acidity Test**				
	(Volume Of 0.02N NaOH Required To Neutralize 100ml Sample Using phenolphthalein (ml))	0.3	5.0 Max	IS:456	Yes
c.	Tests (ppm)				
(I)	Inorganic Solids	180	3000 Max	IS:3025 Part-18	Yes
(II)	Sulphates As SO_3	22	400 Max	IS:3025 Part-24	Yes
(III)	Chlorides Cl	28	2000 Max For Plain Concreate & 500 Max For Reinforced Concreates	IS:3025 Part-32	Yes
(IV)	Suspended Matter	28	2000 Max	IS:3025 Part-17	Yes
(V)	Organic Matter	20	200 Max	IS:3025 Part-18	Yes
d.	pH	7.8	Not Less Than 6	pH Meter	Yes

Remarks : The Sample of Water Conforms To IS:456-2000, For Construction Purpose w.r.t above test.

***** End of Results *****

Sunbeam Auto Pvt. Ltd. Testing R & D Center

A.G.M.

Authorised Signatory

1. Sample will be retained only for one month.
2. The results listed refer only to the tested samples and applicable parameter. Endorsement of product is neither inferred nor implied.
3. Total liability of our works is limited to invoiced amount.
4. This report can not be used as an evidence in a court of law without prior permission of laboratory.

SUNBEAM AUTO PVT. LTD.

38/6, K. M. Stone, Delhi-Jaipur Highway, Narsingpur, Gurgaon - 122 001 (Haryana) India
Ph.: +91-124-4129254, **Fax:** +91-124-4129751/52
E-mail: lab@sunbeamauto.com **URL :** sunbeamlabs.com

TESTING, RESEARCH & DEVELOPMENT CENTRE

Certificate No: 412754

TEST CERTIFICATE

Party Name : EXECUTIVE ENGINEER C-5
D.U.S.I.B GOVT.OF NCT OF DELHI
01,KILOKARI,RING ROAD,
OPP.MAHARANI BAGH,NEW DELHI-14

Date : 24/08/2015

Job Order No. : 508-711-0763

Reference No. : D-479/EEC-5/2015-16
DT.31.7.15
Date : 14.08.2015

Sample Particulars : ONE SAMPLE OF CERAMIC GLAZED TILE MARKED AS WALL TILES 200X300MM,ORIENT NAME OF WORK-PAY & USE(JSC) SH:UP-GRADATION & REMODELLING OF 80 SEATER JSC IN JJC INDIRA GANDHI CAMP NO.-2, JEEVAN NAGAR NEAR POLICE POST, HARI NAGAR ASHRAM AGENCY: SH. DURGA CONSTRUCTION CO. WAS RECEIVED.

RESULTS

Test As Per IS : 13630 Pt.8

S.No.	Parameters	Observed	Specified As Per IS : 15622 Table - 9	Conformity
	Physical Test :			
1	Water Absorption (E > 10%)			
	Average	14.6%	10.0% (Min)	Yes
2	Modulus of Rupture			
	Average	12.6 N/mm²	12.0 N/mm² (Min) (For < 7.5MM THK.)	Yes
3	Crazing Resistance	Resistant	4 Cycles @ 7.5 bar (Min.)	Yes
4	Moh's Hardness	7	3 (Min.)	Yes
	Chemical Test			
1	Resistance to Staining	No Staining, No Damage, No Mark Observed on the Tile.	Class - 1 (Min)	Yes
2	Resistance to House Hold Chemicals and Swimming Pool Water Cleansers	No Staining, No Damage, No Mark Observed on the Tile.	Class - AA (Min)	Yes
3	Resistance to Acids	No Erossion, No Damage, No Mark Observed on the Tile.	To be specified by Manufacture	-
4	Resistance to Alkalis	No Erossion, No Damage, No Mark Observed on the Tile.	To be specified by Manufacture	-

*****End of Result*****

Sunbeam Auto Pvt. Ltd. ★ Testing & R&D Center ★
A.G.M.
Authorised Signatory

1. Sample will be retained only for one month.
2. The results listed refer only to the tested samples and applicable parameter. Endorsement of product is neither inferred nor implied.
3. Total liability of our works is limited to invoiced amount.
4. This report can not be used as an evidence in a court of law without prior permission of laboratory.

SUNBEAM AUTO PVT. LTD.

38/6, K. M. Stone, Delhi-Jaipur Highway, Narsingpur, Gurgaon - 122 001 (Haryana) India
Ph.: +91-124-4129254, **Fax:** +91-124-4129751/52
E-mail: lab@sunbeamauto.com **URL :** sunbeamlabs.com

TESTING, RESEARCH & DEVELOPMENT CENTRE

Certificate No. 412755

TEST CERTIFICATE

Party Name : EXECUTIVE ENGINEER C-5
D.U.S.I.B GOVT.OF NCT OF DELHI
01,KILOKARI,RING ROAD,
OPP.MAHARANI BAGH,NEW DELHI-14

Date : 24/08/2015

Job Order No. : 508-711-0764

Reference No. : D-479/EEC-5/2015-16
DT.31.7.15
Date : 14.08.2015

Sample Particulars : ONE SAMPLE OF CERAMIC GLAZED TILE MARKED AS RECTIFIED FLOOR TILES 300X300MM,ORIENT NAME OF WORK-PAY & USE(JSC) SH:UP-GRADATION & REMODELLING OF 80 SEATER JSC IN JJC INDIRA GANDHI CAMP NO.-2, JEEVAN NAGAR NEAR POLICE POST, HARI NAGAR ASHRAM AGENCY: SH. DURGA CONSTRUCTION CO. WAS RECEIVED.

RESULTS

Test As Per IS : 13630 Pt.8

S.No.	Parameters	Observed	Specified As Per IS : 15622 Table - 10	Conformity
	Physical Test :			
1	Water Absorption (3 < .E ≥ 6%)			
	Individual (Max)	6.1%	6.2%(Max)	Yes
	Average	5.9%	6.0% (Max)	Yes
2	Modulus of Rupture			
	Individual (Min)	28.3 N/mm²	28 N/mm² (Min)	Yes
	Average	30.0 N/mm²	30 N/mm² (Min)	Yes
3	Crazing Resistance	Resistant	4 Cycles @ 7.5 bar (Min.)	Yes
4	Moh's Hardness	7	5 (Min.)	Yes
	Chemical Test			
1	Resistance to Staining	No Staining, No Damage, No Mark Observed on the Tile.	Class - 1 (Min)	Yes
2	Resistance to House Hold Chemicals and Swimming Pool Water Cleansers	No Staining, No Damage, No Mark Observed on the Tile.	Class - AA (Min)	Yes
3	Resistance to Acids	No Erossion, No Damage, No Mark Observed on the Tile.	To be specified by Manufacture	-
4	Resistance to Alkalis	No Erossion, No Damage, No Mark Observed on the Tile.	To be specified by Manufacture	-

*****End of Result*****

Sunbeam Auto Pvt. Ltd. Testing R & D Center

A.G.M.
Authorised Signatory

1. Sample will be retained only for one month.
2. The results listed refer only to the tested samples and applicable parameter. Endorsement of product is neither inferred nor implied.
3. Total liability of our works is limited to invoiced amount.
4. This report can not be used as an evidence in a court of law without prior permission of laboratory.

R. No 499
RECEIVED 31 JUL 2015

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Part I

Dispatch No --471/EEC-5/2015-16---------- Date: 30/07/15

Sub: Testing of ~~Fine sand~~ Coarse sand for particle size distribution.

A.L. No.: 07/WH/4945/EE C-5/DUSIB/2015-16/D-323 Dated.08.06.2015

1. Name of Work:- Pay & Use (JSC)
   Sub-Head:- Up-gradation & remodelling of 80 seater JSC in JJC Indira Gandhi Camp No.- 2, Jeevan Nagar near Police Post, Hari Nagar Ashram.
2. Details from where sample is collected ----------Site ----------
3. Name of Circle/Division: ----------II/C-5----------
4. Name of Junior Engineer: ----------
5. Name of Assistant Engineer: Sh. R. C. Navani
6. Name of Executive Engineer: Sh. S. K. Varshney ----------
7. Name of Contractor/Agency: M/S Durga Construction Co.
8. Name of Officer collecting sample: Sh. R. C. Navani
9. Date of collection: 27-07-2015----------
10. Quantity of sample sent for testing: 10Kg----------

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked--A-------has/have been taken in my presence which represent 8.50 Cum.quantity of works/supply made at site/store.

Signature of AE
In charge of work

Signature of Contractor

Signature of Officer
taking sample (EE/AE)

Part II **TEST REPORT**

No. SE (QC)/AE (Lab.)/2011-12 /D- 508 Date: 31/7/15

Test No. 499 Date: 31.7.15

Date of Receipt: 31.7.15

Date of testing: 31.7.15

(A) SILT CONTENT:

Height of Silt :

Height of Sand : NOT ASKED FOR

% age of silt content:

Executive Engineer, C-5
Dy. No. 900
Date 4/8/15
DUSIB, Govt. of NCT of Delhi

(B) PARTICLE SIZE DISTRIBUTION Weight of sample tested: 500 gram

S.No	Sieve Size	Weight retained in (gms)	% age wt. retained	Cumulative %age retained	% age passing	Reqd. % age passing as per specs.
1.	10mm	0.00	0.00	0.00	100.00	100
2.	4.75mm	7.00	1.40	1.40	98.60	90-100
3.	2.36mm	59.00	11.80	13.20	86.80	85-100
4.	1.18mm	48.00	9.60	22.80	77.20	75-100
5.	600micron	42.00	8.40	31.20	68.80	60-79
6.	300micron	211.00	42.20	73.40	26.60	12-40
7.	150micron	81.00	16.20	89.60	10.40	0-10
8.	Pan	52.00	10.40	100.0	0.00	—

ACCEPTABLE

W.R.T Zone-III Sand in Acceptable Range

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

31/7/15

Assistant Engineer (QC-Lab)
DUSIB, Vikas Kutir, ITO

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

Copy to:-
1. E.EC-5
2. O/C

Sh RC Navani AE
05/08/15

A.E.(QC)/A.E.(LAB) 15/D-508

Dt. 31/7/15

C-5

EE(S)

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T., of Delhi
ITO, New Delhi-02

To

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

R.NO 497
RECEIVED 31 JUL 2015

Part I

Dispatch No 472/EEC-5/2015-16 Date: 30/07/15

Sub: Testing of Bricks/~~Brick tiles~~ for Compressive Strength/~~Dimension~~.

A.L. No.: 07/WH/4945/EE C-5/DUSIB/2015-16/D-323 Dated.08.06.2015

1. Name of Work:- Pay & Use (JSC)

   Sub-Head:- Up-gradation & remodelling of 80 seater JSC in JJC Indira Gandhi Camp No.- 2, Jeevan Nagar near Police Post, Hari Nagar Ashram.

2. Details from where sample is collected ----------Site ----------
3. Name of Circle/Division: ----------II/C-5----------
4. Name of Junior Engineer: ----------
5. Name of Assistant Engineer: Sh. R. C. Navani
6. Name of Executive Engineer: Sh. S. K. Varshney ----------
7. Name of Contractor/Agency: M/S Durga Construction Co.
8. Name of Officer collecting sample: Sh. R. C. Navani
9. Date of collection/Date of filling frog: 26-07-2015/27-07-2015 ----------
10. Date of testing: 31-07-2015----------
11. Identification Mark: SBF----------
12. Class designation: 75----------
13. No. of specimen sent for testing: 5+10 Nos.----------

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked---(R)--------has/have been taken in my presence which represent 6000Nos.quantity of works/supply made at site/store.

Signature of AE
In charge of work

Signature of Contractor

Signature of Officer
taking sample (EE/AE)

Part II **TEST REPORT**

No. S.E (Q.C)/A.E/2015-16/LD-507 Date: 31/7/15

Test No. 497 Date: 31.7.15

Date of Receipt: 31.7.15

Date of Testing: 31.7.15

Executive Engineer, C-5 Dy. No. 899 Date 4.8.15 DUSIB, Govt. of NCT of Delhi

(A) COMPRESSIVE STRENGTH

S. No	Dimensions Length (cms)	Width (cms)	Area (sq.cm)	Maximum Strength. Failure (T)	Compressive Strength Failure (kg/sq.cm)	Av. Comp. Strength. Kg/sq.cm
1.	22.50 ×	11.00 =	247.50	23.00	92.93	ACCEPTABLE
2.	22.00 ×	10.90 =	239.80	21.000	87.54	
3.	22.10 ×	11.00 =	243.10	20.000	82.27	87.03
4.	22.00 ×	10.60 =	233.20	19.50	81.48	
5.	22.00 ×	11.00 =	242.00	22.00	90.91	

Tested in my presence

(B) DIMENSION TEST FOR 20 BRICKS

1. Length :
2. Width :
3. Height :

— NOT ASKED FOR —

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

31/7/15

Assistant Engineer (QC-Lab)
DUSIB, Vikas Kutir, ITO

Copy to:-
1. E.E C-5
2. O/C

Sh Navani AE 05/08/15

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

S.E.(QC)/A.E.(LAB) 15/D-507

31/7/15

C-5

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T., of Delhi
ITO, New Delhi-02

Executive Engineer (QC)
Dy. No. 2098
Date 10/2/16
DUSIB, Govt. of NCT of Delhi

R-1199

RECEIVED 04 JAN 2016

To,

The Assistant Engineer (QC)
Quality Control Lab., DUSIB
Vikas Kutir, ITO, New Delhi

Part I

Dispatch No D-1667/EEC-5/2015-16 Date: 04-01-16

Sub: Testing of Bricks/~~Brick tiles~~ for Water Absorption / Efflorescence.

A.L. No.: AL-07/WH/4945/EE C-5/DUSIB/2014-15/D- 323 dt. 08.06.2015.

1. Name of Work:- Pay & Use (JSC)

   Sub-Head:- Up-gradation & remodelling of 80 seater JSC in JJC Indira Gandhi Camp, Jeevan Nagar near Police Post, Hari Nagar Ashram.

2. Details from where sample is collected ----------Site----------
3. Name of Circle/Division: ----------II/C-5----------
4. Name of Junior Engineer: ----------
5. Name of Assistant Engineer: Sh. R. C. Navani
6. Name of Executive Engineer: Sh. S. K. Varshney ----------
7. Name of Contractor/Agency: M/S Durga Const. Co.
8. Name of Officer collecting sample: Sh. R. C. Navani
9. Date of collection: 31-12-2015
10. Date of testing: ----------
11. Identification Mark: ~~WAGAN~~ DHK ----------
12. Class designation: 75----------
13. No. of specimen sent for testing: 10 Nos.----------

Specimen relating to work mentioned above is/are sent for testing. It is certified that the sample/ samples marked----A----has/have been taken in my presence which represent 6000Nos. quantity of works/supply made at site/store.

Signature of AE
In charge of work

Signature of Contractor

Signature of Officer
taking sample (EE/AE)

Part II **TEST REPORT**

No. S.E(QC)-II/A.E/2015-16/D-1323 Date: 25/1/16

Test No. 1199 Date: 4.1.16

Date of Receipt: 4.1.16

(A) WATER ABSORPTION

Date of testing up to: 7.1.16

S. No	Dry. Wt. (gms)	Wet. Wt (gms)	Water Absorbed (gms)	% age water absorbed	Average water absorption
1.	2426	2808	382	15.75	ACCEPTABLE
2.	2484	2888	404	16.26	
3.	2676	3107	431	16.11	16.26%
4.	2493	2913	420	16.85	
5.	2573	2993	420	16.32	

(B) EFFLORESCENCE:

Date of testing up to: 25.1.16

Efflorescence found: ~~Nil~~ / Slight / ~~Moderate~~ / Heavy

Only testing has been conducted in this laboratory. The sample/samples has/have been collected and handed over by the field staff of the concerned division.

25/1/16

Assistant Engineer (QC-Lab)
DUSIB, Vikas Kutir, ITO

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02

Copy to:-
1. E.E C-5
2. O/C

AE-II 11/01/16.

No. A.E.(QC)/A.E.(LAB)/ 15/D-1323 25/1/16.

C-5

Assistant Engineer (QC)
Delhi Urban Shelter Improvement Board
Govt. of N.C.T. of Delhi
ITO, New Delhi-02