

TEST REPORT

ULR No.

TC532519200001484F

Test Report No.

W-20190816036

Issue Date

16/08/19

Issued To

: M/s Barak Valley Infrastructure

Rampur, Porgona-Borkhola,

Lumding-Silchar Road, Assam-788111.

Sample Deposited by

Party

Sample Description

Said to be "Fine Aggregate, Qty: One Bag".

Date of Starting

02/08/19

Ref. No.

BVI/HO/19-20/00052

Date

24/07/19

Job Order No. : BTH-W/BM/190801/18

Date of Sample Receipt : 01/08/19

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Date of Completion

14/08/19

I. Chemical Testing

1. Building Material

| S.No. Tests & Clause Reference 1. Alkali Aggregate Reactivity (Chemical method) (Cl. 5.6, IS 2386-7:1963 RA 2016) | | Requirements as per IS 383:2016 (With 1 Amendment) | Results Innocuous Aggregate |
|--|--|--|-----------------------------|
| | | | |
| 2. | Total Alkali content as Na₂O equivalent, % by mass (Cl. 5.7, Table 3 IS 4032:1985 RA 2014) | 0.3 Max. | 0.10 |
| 3. | Total Sulphate content as SO ₃ (Cl. 5.7, Table 3 IS 4032:1985 RA 2014) | 0.5 Max. | 0.038 |
| 4. | Water Soluble Chloride content, % by mass (Cl. 5.7, Table 3 IS 14959-1:2001 RA 2016) | 0.04 Max. | 0.002 |

II. Mechanical Testing

1. Building Material

| S.No. | Tests & Clause Reference | Requirements as per IS 383:2016 (With 1 Amendment) | Results |
|-------|---|--|---------|
| 1. | Deleterious Material (Cl. 5.2.1 & Table 2) | | |
| 1.1 | Coal & lignite, % by mass (IS 2386-2:1963) (RA 2016) | 1.0 % Max. | Nil |
| 1.2 | Clay & lumps, % by mass (IS 2386-2:1963) (RA 2016) | 1.0 % Max. | 0.2 |
| 1.3 | Material finer than 75 μ IS Sieve, % by mass (IS 2386-1:1963) (RA 2016) | 15.00 % Max. (for crushed sand) | 9.3 |
| 1.4 | Soft Fragment, % by mass (IS 2386-2:1963 RA 2016) | N.A. (for Fine Aggregate) | N.A. |
| 1.5 | Shale, % by mass | N.A. (for crushed) | N.A. |
| 1.6 | Total of % of all deleterious material (except mica) (IS 383:2016) | 2.00 % Max. (for crushed sand) | 0.2 |
| 1.7 | Mica Content (Note 3 SP 23) | 1.00 Max. (for no tests for strength and | |



BHARAT TEST HOUSE

26, Wazirpur Industrial Area, Wazirpur, New Delhi-110052 Tel: 011-43111250, 43711251 | email: bthinfo@bharattesthouse.com

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Job Order No. : BTH-W/BM/190801/18

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| S.No. | Tests & Clause Reference | Requirements as per IS 383:2016 (With 1 Amendment) | | | Results | |
|-------|--|---|----------|------------------------------|-------------|--|
| 1.8 | Organic Impurities (Note 4, IS 2386-2:1963) (RA 2016) | Colour of | | n is lighter to solution. | han that of | Satisfactory |
| 1.9 | Compressive Strength (Note 4)(IS 2386-6:1963) (RA 2016) | A Fine a | | in Organic I used, wher | | A CONTRACTOR OF THE PARTY OF TH |
| 1.9 | 7 Days, % by standard sand | | 95 % | 6 Min. | | N.A. |
| | 28 Days, % by standard sand | | 95 % | Min. | | N.A. |
| 2, | Mechanical Properties (Cl. 5.4 & IS 2386-4:1963) (RA 2016) | | | | | The second section of the second section secti |
| 2.1 | Soundness of aggregate after 5 cycle (Cl. 5.5.1 IS 2386-5:1963 RA 2016) | | | | | |
| 2.1.1 | By Na₂SO₄ | | 10 % | Max. | | 1.5 |
| 2.1.2 | By MgSO ₄ | 15 % Max. | | 2.4 | | |
| 3. | Water absorption, % by mass (Cl. 5.7, Table 3 IS 2386-3:1963 RA 2016) | 5 Max. | | 1.30 | | |
| 4. | Specific gravity (Cl. 5.7, Table 3 IS 2386-3:1963 RA 2016) | 2.1 – 3.2 | | 2.66 | | |
| | Size and Grading of Aggregate (Cl. 6.3, Table 9) | 444000 (444 1440) | | | | and the second s |
| | Sieve analysis (IS sieve) | % of passing | | | | |
| | (IS 2386-1:1963 RA 2016) | Zone-I | Zone II | Zone-III | Zone-IV | W799 93 64 |
| | 10 mm | 100 | 100 | 100 | 100 | 100 |
| 5. | 4.75 mm | 90 – 100 | 90 – 100 | 90 – 100 | 95 – 100 | 98 |
| | 2.36 mm | 60 – 95 | 75 – 100 | 85 – 100 | 95 – 100 | 87 |
| | 1.18 mm | 30 – 70 | 55 – 90 | 75 – 100 | 90 – 100 | 74 |
| | 600 μm | 15 – 34 | 35 – 59 | 60 – 79 | 80 – 100 | 51 |
| | 300 μm | 5 – 20 | 8 – 30 | 12 – 40 | 15 – 50 | 15 |
| | 150 μm | 0-10 | 0 – 10 | 0-10 | 0-15 | 4 |

Remarks: -

Nil.

| Tested by | Authorized Signatory |
|-------------|----------------------|
| (Palandaga) | TEST TOWN HOD |

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TEST REPORT

ULR No.

TC532519200001483F

Test Report No.

W-20190816035

Issue Date : 16/08/19

Issued To

: M/s Barak Valley Infrastructure

Rampur, Porgona-Borkhola.

Lumding-Silchar Road, Assam-788111.

Sample Deposited by

: Party

Sample Description

: Said to be "Quick Lime, Class-C".

Date of Starting

02/08/19

Ref. No.

BVI/HO/19-20/00052

Date

24/07/19

Job Order No. : BTH-W/BM/190801/17

Date of Sample Receipt : 01/08/19

12/08/19

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Date of Completion

I. Chemical Testing

1. Building Material

| S.No | Tests & Clause Reference | Requirements as per IS 712:1984 (With 2 Amendments) for Class-C | Results |
|------|--|---|---------|
| | Chemical Tests | Quick | |
| | | | |
| 1. | Calcium and Magnesium oxide (on ignited basis) (IS 6932-1:1973) | 85 % Min. | 87.4 |
| 2. | Magnesium oxide (on ignited basis) (IS 6932-1:1973) | 6 % Max. | 3.0 |
| 3. | Insoluble residue in dilute acid and alkali, (On ignited basis) (IS 6932-1:1973) | li, 2 % Max. | |
| 4. | Carbon dioxide, (On oven dry basis) (IS 6932-2:1973) | 5 % Max. | 1.10 |
| 5. | Available lime as CaO 75 % Min. (IS 1514:1990) (on dry basis) | | 78.4 |

II. Mechanical Testing

1. Building Material

| A. | Physical Tests | | |
|----|---------------------------------------|---------------|------|
| 1. | Residue on slaking (IS 6932-3:1973) | | |
| | Residue on 850 micron IS Sieve | 5 % Max. | Nil |
| | Residue on 300 micron IS Sieve | 5 % Max. | 0.30 |
| 2. | Workability bumps (IS 6932-8:1973) | 12 Max. | 10 |
| 3. | Volume Yield (IS 6932-6:1973) | 1.7 ml/g Min. | 2.06 |

Remarks:

Nil.

| Tested by | Authorized Signatory |
|-----------|----------------------|
| ZVF. | A DELHI. |
| | TM/QM/HOD |

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