**REF: KDMEI/HYD/CA/2023/05-6534(1&2)-A Dated: 02nd June, 2023**

**To TC6470 23000001269F**

**M/s ACC Limited,**

**Hyderabad.**

**TEST REPORT**

Source of the sample : Sample supplied by the customer

Technical Reference : IS: 2386-1963 (Part-I, III, IV & V) (Reaffirmed 2016)

Group & Discipline : Building Materials & Mechanical.

Customer’s Reference\* : Lr. No: Nil; Date: 27.05.2023.

Product/Material Type\* : Coarse Aggregate 20 mm &10 mm

Source\* : Lakdaram.

Material received on : 27.05.2023

Period of Test : 27.05.2023 to 02.06.2023

Condition of samples : Satisfactory

SIEVE ANALYSIS – 20 MM

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IS Sieve Designation | Cumulative PercentRetained Passing | | Specification as per IS:383-2016 in respect of 20mm nominal size aggregate (% Passing)  Graded Single size | |
| 40.0mm | 0.00 | 100.00 | 100 | 100 |
| 20.0 mm | 12.10 | 87.90 | 90–100 | 85–100 |
| 10.0 mm | 99.65 | 0.35 | 25–55 | 0–20 |
| 4.75 mm | 99.95 | 0.05 | 0–10 | 0–5 |
| Remarks: - The above tested sample conforms to the requirements of **Single size** aggregate as per IS: 383-2016 | | | | |

|  |  |  |
| --- | --- | --- |
| Test Conducted | Results | Requirements IS: 383-2016 |
| Specific Gravity | 2.627 | --- |
| Water Absorption (%) | 0.385 | --- |
| Elongation Index (%) | 11.03 | --- |
| Flakiness Index (%) | 2.73 | --- |
| Bulk Density (Kg/Lit)  Loose  Rodded | 1.451  1.560 | --- |
| 10% Fines Value | 209.70 | Minimum load is 50KN |
| Impact Value (%) | 13.40 | The aggregate impact value shall not exceed 45% by weight for aggregates used for concrete other than wearing surfaces & 30% by weight for concrete for wearing surfaces, such as runways etc. |
| Crushing Value (%) | 17.90 | The aggregate crushing value shall not exceed 30% for concrete wearing surfaces, such as runways, roads and pavements. |
| Soundness (% by Weight)  (weight loss after 5 cycles)  Sodium Sulphate | 0.58 | Maximum 12% |
| Deleterious Materials (%) Material finer than 75 microns | 0.35 | Maximum 1.0 % (% by weight) |

**Checked by Page 1 of 2**

**REF: KDMEI/HYD/CA/2023/05-6534(1&2)-A Dated: 02nd June, 2023**

SIEVE ANALYSIS – 10 MM

|  |  |  |  |
| --- | --- | --- | --- |
| IS Sieve Designation | Cumulative PercentRetained Passing | | Specification as per IS:383-2016 in respect of 10mm nominal size aggregate (% Passing) |
| Single size |
| 12.5mm | 0.00 | 100.00 | 100 |
| 10.0mm | 2.80 | 97.20 | 85-100 |
| 4.75mm | 95.75 | 4.25 | 0-20 |
| 2.36mm | 99.65 | 0.35 | 0-5 |
| Remarks: - The above tested sample conforms to the requirements of Single size aggregate as per IS: 383-2016 | | | |

|  |  |  |
| --- | --- | --- |
| Test Conducted | Results | Requirements IS: 383-2016 |
| Specific Gravity | 2.618 |  |
| Water Absorption (%) | 0.410 | --- |
| Elongation Index (%) | 20.63 | --- |
| Flakiness Index (%) | 4.76 | --- |
| Bulk Density (Kg/Lit)  Loose  Rodded | 1.402  1.512 | --- |
| 10% Fines Value | 201.83 | Minimum load is 50KN |
| Impact Value (%) | 12.43 | The aggregate impact value shall not exceed 45% by weight for aggregates used for concrete other than wearing surfaces & 30% by weight for concrete for wearing surfaces, such as runways etc. |
| Crushing Value (%) | 18.65 | The aggregate crushing value shall not exceed 30% for concrete wearing surfaces, such as runways, roads and pavements. |
| Soundness (% by Weight)  (weight loss after 5 cycles)  Sodium Sulphate | 0.66 | Maximum 12% |
| Deleterious Materials (%) Material finer than 75 microns | 0.40 | Maximum 1.0 % (% by weight) |

\* As furnished by the customer

Note: 1. The results relate to the samples supplied by the customer.

2. Report shall not be reproduced, except in full, without the written approval of the laboratory.

3. Any correction invalidates this report.

4. Retention period of samples is 15days from the date of issue of test report, then it will be dispose off.

Disclaimer: Laboratory is not liable for the Information (data) provided by Customers.

From **KDM ENGINEERS (INDIA) PVT.LTD.,**

**AUTHORISED SIGNATORY**

**Checked by RAMBALA.SURESH**

**B.SAI KUMAR TECHNICAL MANAGER**

**Page 2 of 2**

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

**REF: KDMEI/HYD/CA/2023/12-7392-B Dated: 18th December, 2023**

**To TCKDMH23000011252  
M/s. Power Grid Corporation of India Limited.**

**Villa No-103, Nandi Paradise,**

**Kranthi Nagar, Nandyal(Mandal &District),**

**Andhra Pradesh- 518501.**

**TEST REPORT**

**TEST REPORT**

Source of the sample : Sample supplied by the customer

Technical Reference : IS: 2386-1963 (Part-II)

Group & Discipline : Building Materials & Mechanical.

Customer’s Reference\* : Ref. No: SR-1/NDL/KM/F-41/Freq/1; Date: 09.12.2023.

Group & Discipline : Building Materials & Mechanical.

Reference\* : (i) TW02 NOA Ref CC/NT/W-TW/DOM/A00/22/00744/NOA-

1&2/23-102982/01&02 dated 16.06.2023.

(ii) Agency Request Letter Reference SL/SO/EPC/PGCIL/2023-24/TW02/

dated 09.12.2023

Product/Material Type\* : Coarse Aggregate 20 mm.

Source\* : Sri Lakshmi Road Metal Industries, Banaganapalli.

Sample ID\* : PG/NDL/CA/LAXMI-20/9, Dated; 09/12/2023.

Details of site\* : Transmission Line Tower Package TW02 for 765Kv D/C Kurnool III-

Maheswaram NOA Ref CC/NT/W-TW/DOW/A00/22/00744/NOA-

1&2/23-102982/01&02 dated 16.06.2023.

Agency request Letter Ref\* : SL/SO/EPC/PGCIL/2023-24/TW02/ dated: 09.12.2023.

Material received on : 14.12.2023

Period of Test : 15.12.2023 to 18.12.2023

Condition of samples : Satisfactory

|  |  |  |
| --- | --- | --- |
| **Test Conducted** | **Results** | **Requirements**  **IS:383-2016** |
| **20 mm** |
| Clay lumps | Nil | Max 1.00 % |
| Soft fragments | Nil | -- |
| Coal & Lignite | Nil | Max 1.00 % |
| shale | Nil | -- |

\* As furnished by the customer

Note: 1. The results relate to the samples supplied by the customer.

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From**KDM ENGINEERS (INDIA) PVT LTD.**

**AUTHORISED SIGNATORY**

**Checked by RAMBALA.SURESH**

**B.SAI KUMAR TECHNICAL MANAGER Page 1 of 1**

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