



# KALYANI CONSULTING ENGINEER'S

CTS 7377/B, Sector – 10, Shop No. 1, Near Nandini Dairy Quarters,  
Malmaruti Road, Anjaneya Nagar, Belagavi – 590017.

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Date: 12/12/2024

Ref: KCE/Shree Renuka M-Sand/Sand Sieve analysis & Silt/RESULT/2024 Dec-01

Name of client: Shree Renuka M-Sand, Madamgeri, Belagavi.

Site Location: Madamgeri, Near Tavalgeri Cross, Gokak-Yargatti, Belagavi.

Sand collected on: 08/12/2024

Sand tested on: 09/12/2024 to 11/12/2024.

Sample: M sand (For Concrete Work).

Type of Tests: Sieve analysis, Silt content, Specific gravity and Water absorption Test in given Sand.

## Test Results: Sieve Analysis Test: IS: 383: 2016 (Part 1)

| Sample | IS Sieve Size in mm | Percentage of Passing (Average of 3 sample) | Limit as per IS: 383:2016 Zone-II |
|--------|---------------------|---------------------------------------------|-----------------------------------|
| Sand   | 10                  | 100.00                                      | 100                               |
|        | 4.75                | 100.00                                      | 90-100                            |
|        | 2.36                | 96.00                                       | 75-100                            |
|        | 1.18                | 78.00                                       | 55-90                             |
|        | 0.600               | 40.00                                       | 35-59                             |
|        | 0.300               | 11.00                                       | 8-30                              |
|        | 0.150               | 01.00                                       | 00-10                             |

## Test Results: Silt Content Test: IS: 383:2016 (Part 3)

| Sample | Original weight in g | Weight Passing 75 $\mu$ IS sieve in g (Average of 3 sample) | % Silt | Limit as per IS: 383:2016 |
|--------|----------------------|-------------------------------------------------------------|--------|---------------------------|
| Sand   | 1000                 | 75                                                          | 7.5    | 10%                       |



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| Sample | Test             |        | Remark    |
|--------|------------------|--------|-----------|
| Sand   | Specific Gravity | 2.75   |           |
|        | Finesse Modulus  | 2.74   | 2.2 - 3.2 |
|        | Water Absorption | 16.67% |           |

## **Final Remarks: Final Remarks:**

- As per IS: 383.2016 test result shows given sand sample confirms to Zone II.
- Sand sample have Slit Content (Material finer than 75 $\mu$  IS sieve) within the limit specified by IS: 383:2016 i.e., 10%.
- Given sand sample is medium fine to coarser.
- **Suitable for Concrete work.**



Yours sincerely

For

**KALYANI CONSULTING ENGINEERS**