

## **READY MIX PLASTER RATE ANALYSES**

### **100 Sq. ft. Plastering Cost Comparison (1:4)**

#### **Between Traditional Method (using Sand in bag) & Ready Mix Plaster**

Plastering considering Ideal Scenarios of 12mm = 0.5 inch

1. Wet Volume of 100 Sq. ft. plaster =  $100 \times 0.5 / 12$

**Wet Volume of 100 Sq. ft. plaster = 4.166 CFT**

2. **Add Volume for Joints & Undulation by 8% =  $4.166 \times 1.08 = 4.5$  CFT.**

3. Dry Volume = Wet Volume X Shrinkage Ratio (1.4)

Dry Volume =  $4.5 \times 1.4$

**Dry Volume = 6.3 CFT**

4. Volume of sand =  $6.3 \times 4 / 5$

**Volume of sand = 5.04 CFT**

Dry Density of Sand = 1810 kg /m<sup>3</sup>

Dry Density of Sand = 1810 / 35.35 Kg / CFT

**Dry Density of Black Sand = 51.2 Kg / CFT**

Weight of sand for 100 sq.ft. Plaster =  $51.2 \times 5.04$

Weight of sand for 100 sq.ft. Plaster = 258 Kg

Weight of 1 bag = 40 Kg

No of bags =  $258 \text{ kg} / 40\text{kg}$

**No of bags = 6.45 Bags**

Rate of Sand in Bag = Rs. 95+GST/ Bag = Rs. 99.75 Per Bag (Including GST)

There is 10% moisture in sand which is supplied in bag

Rate of Sand Absolutely dry = Rs 110 / Bag

Cost of sand =  $110 \times 6.45$

**Cost of sand = Rs 709.**

5. **Volume Of One Bag Cement = 1.25 CFT.**

6. Volume of Cement =  $7.5 / 5 = 1.26$  CFT

Volume of Cement =  $1.26 / 1.25$  CFT.

**Volume of Cement = 1.01 Bag**

**Cost of Cement = Rs. 300+ GST = 384 Rs. Per Bag (Including GST)**

**Cost of cement for 100 Sq. ft. =  $1.2 \times 384 = \text{Rs } 461$**

7. **Traditional Cost for 100 Sq. ft. = Rs 384 + Rs 709**

8. **Traditional Cost for 100 Sq. ft. = Rs 1093**

#### **Plastering cost by using RMP**

1. RMP Coverage per Bag = 20 Sq. ft.

2. No of bag required for 100 Sq. ft. = 5 Bags

3. Cost of RMP = RS 180 + GST Per Bag

4. Cost of RMP for 100 Sq. ft. = Rs 212 x 5 bags

5. **Cost of RMP for 100 Sq. ft. = Rs 1060.**

**Conclusion:- RMP Is Cheaper By 3% Approx And It Has Polymer & Fiber Which Is Additional Advantage.**