

Letter no. AE to U-C/1647/5F/ 110

Date. 18/01/2018

To,

Shri. Subhash Manapure
 M/s SMS Ltd. IT Park, Gayatri Nagar,
 Nagpur

Sub.- "Upgradation of Umred-Bhisi-Chimur-Warora, NH-353E, Package-I, Malewada to Chimur, from km. 16+000 to km. 47+700 (design chainage) excluding the 4 lane road of 1.165 km in Chimur town to two lane with paved shoulders configuration in the state of Maharashtra on EPC mode"- **Approval of Concrete Mix Designs and Admixture.**

Ref.- Your letter no. SMSL/MCRP/2018/48, dated 14.01.2018

Sir,

With reference to your letter cited above this Office has gone through the Mix Designs of concrete for M-15, M-20, M-25 and the admixture used.

The proportion proposed in Mix Design is as follows-

1. Concrete Mix Design for M-15 for PCC

Proportion for one cu. m.			
Sr. No.	Material	Weight of Material in Kg.	Source / Manufacturer
1	Cement	250.0	Ultratech 53 Grade OPC
2	Fly Ash	40.0	Reliance Power Plant at Mauda
3	20 mm aggregate	847.5	Crusher Plant , Botezarri
4	10 mm aggregate	406.2	
5	Crushed Sand	779.8	
6	Water	167.5	Base Camp in Km 19+00
7	Admixture	2.03	Supreme Brand Shellcon 300



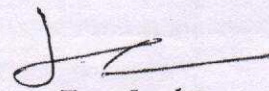
2. Concrete Mix Design for M-20 for RCC

Proportion for one cu. m.			
Sr. No.	Material	Weight of Material in Kg.	Source/ Manufacturer
1	Cement	300.0	Ultratech 53 Grade OPC
2	Fly Ash	30.0	Reliance Power Plant at Mauda
3	20 mm aggregate	811.80	Crusher Plant , Botezarri
4	10 mm aggregate	398.3	
5	Crushed Sand	747.40	
6	Water	175.50	Base Camp in Km 19+00
7	Admixture	2.310	Supreme Brand Shellcon 300

3. Concrete Mix Design for M-25 for RCC

Proportion for one cu. m.			
Sr. No.	Material	Weight of Material in Kg.	Source/ Manufacturer
1	Cement	320	Ultratech 53 Grade OPC
2	Fly Ash	45.0	Reliance Power Plant at Mauda
3	20 mm aggregate	801.8	Crusher Plant , Botezarri
4	10 mm aggregate	393.4	
5	Crushed Sand	738.6	
6	Water	183.22	Base Camp in Km 19+00
7	Admixture	2.555	Supreme Brand Shellcon 300

As concrete using above proportion of materials achieved desired strength and meet other specifications the Mix Design is hereby approved. The consistency in quality of concrete shall be maintained and statistical analysis of test cubes (Standard Deviation) shall be submitted to this office periodically


Team Leader

Copy to,

1. Executive Engineer, NH Division, Gadchiroli for information.
2. Shri..Bagle, Project Manager, M/s SMS Ltd., Chimur