GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T-9460 TO 9463 /Lab/ 308 /2019-20 **Dated: 26/ 11/2019.** **Laboratory:** Bicholim
Sand –T: 4931 &4932. **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub: Improvement to the RBMC of TIP by Providing 100 mm thick RCC lining from ch 0.00 kms to 6.020 km excluding Hassapur aquaduct and Kalna aquaduct between Ch 4.165 km to 4.227 and 4.772 to 5.117 km at village Ankane-Hassapur and Hali in Pernem Taluka.
Ref to requisition No: SDI/WDVII/WRD/F. 353/2019-20/216 Dated: 19/11/2019.
Qty. Received: 1 bags each **Date of Receipt**: 21/11/2019 **Tested on**: 22,23 & 25/11/2019 **Ref to Specification:** CPWD 2002, Vol. I&IS:4031-4-1988
Sample: Sand,20mm, **O.S. No.** 2767 TO 2772/ SS **Lab. Sample No**.: 6929 TO 6934 **Tested by**: Mrs. S.B. Naik Shirodkar, JE.
12.5mm size aggrt,

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Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	**20 mm Size Aggregate:**	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – -- m^3)	
2.	**12.5 mm Size Aggregate**: (L.S.No.6929 & 6931)	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size. **REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size**.	(Qty. rep. – -- m^3)	
3.	**20 mm Size Aggregate:**	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – -- m^3)	
4.	**12.5 mm Size Aggregate**: (L.S.No.6930 & 6932)	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size. **REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size**.	(Qty. rep. – -- m^3)	
5.	**Coarse Sand:** (L.S.No.6933)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.00% : - 3.33% : - 2.53 : - III		
6.	**Coarse Sand:** (L.S.No.6934)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.20% : - 4.34% : - 2.40 : - II		

To be used for – PCC 1:3:6 & RCC 1:1.5:3 **REMARK: The observed results are within the permissible limits of the coarse sand.**

Copy to: 1. The Assistant Engineer, SDI, WDVII,WRD, Dhargal, Pernem – Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D.VII, WRD, Dhargal,Pernem – Goa.
4. Q.C. Lab file 5. Bill File.

Junior Engineer **Assistant Engineer**