GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/ Aggr-T- 9517 To 9519, Sand-T-4963, Cement-T-1129 /Lab/ 373 / 2019-20 Dated: 06 / 01 / 2020.

<u>Laboratory</u>: Bicholim – Goa.

Sub DivV/ (QC)/WRD/Bicholim – Goa.

<u>Sub</u>: Improvement and strengthening of nallah bank near the house of Shri. Dilip Varak in Sy. No.16/1 village Bhuipal V.P. Honda in Sattari Taluka.

Ref to requisition No: MI/ WDVI /WRD/ SDII/ F62/ 2019-20/372 Dated: - 18 /12 / 2019

Qty. Received: 1 bags each **Date of Receipt:** 24 / 12 / 2019 **Tested on:** 24 & 26/12/2019 **Ref to Specification:** CPWD 2009, Vol. I & IS: 4031, 1968,

Sample: 20mm, 12mm, 40mm size aggrt., Sand, J.K. cement 43 grade O.S. No.: 1455/AF to 1459/AF Lab. Sample No.: 7323 TO 7327. Tested by: Mr. Anil R. Fadte, J.E.

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 a	agregate of 20 mm nominal size (Qty	y rep.)	
2.	12 mm Size Aggregate:	Particle size distribution:	It is not single size	d aggregate of 12.5 mm nominal size. (Qt	y rep.)	
3.	40 mm Size Aggregate:	Particle size distribution:	It is not single size	d aggregate of 12.5 mm nominal size. (Qt	y rep.)	
4	i) <u>REMARK</u> : After blending 20 mm aggregate with 12.50 mm aggregates at the ratio of <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size. ii) <u>REMARK</u> : After blending 40 mm aggregate with 12.50 mm aggregates at the ratio of <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 40 mm nominal size.					
4.	i ii	i) Silt & Clay by S.A. methodi) Silt by sedimentationi) Fineness Modulusi) Grading Zone		(Qty. rep.)		
REMARK: The observed results are within the permissible limits of the Coarse Sand.						
5.	J,K., OPC Cement:	,	neness of Cement nsistency of cement	:1.40 % (It should not be r : 31.50 % (It should be in the neighb	*	
			tial Setting Time	: 150 Minutes (It should not be less	,	
	Manuf. date: Week 45, Month 11, Year' <u>2019</u> . iv CM/L =0003401033		nal Setting Time	: 400 Minutes (It should not be more	e than 600 minutes)	
	Qty. rep. To be used for – For PCC 1:2:4.					
		REMARK:- The observed results are within the permissible limit for tested Ordinary Portland cement.				

- 2. Submitted to The Superintending Engineer, CPO, WRD, Porvorim Goa for kind information.
- 3. Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim Goa

Copy to: 1. The Assistant Engineer, S. D.II, WD VI, WRD, Valpo-Sattari – Goa.

4. Q.C. Lab file 5. Bill File Junior Engineer Assistant Engineer