

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 4670 to 4672,4680 to 4683,4696,4697,4705 to 4708/ Lab /104/ 2022 - 23 Dated:- 02/06/2022. Laboratory : Bicholim - Goa.  
4712 to 4714 Sub Division V (QC)/WRD/Goa.

**Name of work :** Improvement to waterway by constructing retaining wall in the field of Shri. Datta Budho Gawas in Sy. No. 39/8 at Village Zarme in V.P. Mauxi in Sattari Taluka.

Ref. to Requisition No.: MI/WDVI/WRD/SDII/f-62/22-23/51 Dt.:- 02/ 05/ 2022

Qty. Recived. : 16 Sets of cube Date of Receipt:- 25/05/ 2022. Tested on: - 25,26,27,28 & 29/05/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample:Cube Mix **CC 1:2:4** O.SNo.:8630 to 8632,8642 to 8645,8659,8660,8669 to 8672,8676 & 8678/SS Lab. Sample No.: 4594 to 4609 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
1	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 27/04/2022. For Wall foundation RHS-1 at Ch.0.00 to 41.00.	28 <sup>th</sup> day compressive strength	217.47	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty represents - 45.00 m3 for two sets of cubes.
			237.85	Ka/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>229.55</b>			
2	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 27/04/2022. For Wall foundation RHS-1 at Ch.0.00 to 41.00.	28 <sup>th</sup> day compressive strength	215.20	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	--do--
			219.73	Ka/Cm <sup>2</sup>			
			228.79	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>221.24</b>			
3	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 27/04/2022. For Wall foundation RHS-2 at Ch.0.00 to 75.00.	28 <sup>th</sup> day compressive strength	233.32	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.75	Qty represents - 12.00 m3.
			226.53	Ka/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>232.57</b>			
4	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 28/04/2022. For Wall foundation LHS at Ch.0.00 to 15.00.	28 <sup>th</sup> day compressive strength	222.00	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.67	Qty represents - 45.00 m3 for two sets of cubes.
			233.32	Ka/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>230.30</b>			
5	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 28/04/2022. For Wall foundation LHS at Ch.0.00 to 15.00.	28 <sup>th</sup> day compressive strength	219.73	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	--do--
			233.32	Ka/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>229.55</b>			
6	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 28/04/2022. For Retaining wall RHS-1 1st step at Ch.0.00 to 41.00.	28 <sup>th</sup> day compressive strength	237.85	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.90	Qty represents - 55.00 m3 for two sets of cubes.
			246.91	Ka/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>237.10</b>			

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Assistant Engineer

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissible	% above or below	REMARK
7	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 28/04/2022. For Retaining wall RHS-1 1st step at Ch.0.00 to 41.00.	28 <sup>th</sup> day compressive strength	233.32	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.11	Qty represents - 55.00 m3 for two sets of cubes.
			235.59	Ka/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>233.32</b>			
8	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 29/04/2022. For Retaining wall RHS-2 1st step at Ch.0.00 to 75.00.	28 <sup>th</sup> day compressive strength	233.32	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty represents - 45.00 m3 for two sets of cubes.
			235.59	Ka/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>229.55</b>			
9	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 29/04/2022. For Retaining wall RHS-2 1st step at Ch.0.00 to 75.00.	28 <sup>th</sup> day compressive strength	237.85	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	--do--
			226.53	Ka/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>227.28</b>			
10	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 30/04/2022. For Retaining wall LHS 1st step at Ch.0.00 to 15.00.	28 <sup>th</sup> day compressive strength	215.20	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	Qty represents - 40.00 m3 for two sets of cubes.
			222.00	Ka/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>217.47</b>			
11	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 30/04/2022. For Retaining wall LHS 1st step at Ch.0.00 to 15.00.	28 <sup>th</sup> day compressive strength	226.53	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	--do--
			235.59	Ka/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>227.28</b>			
12	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 30/04/2022. For Retaining wall RHS-1 2 <sup>nd</sup> step at Ch.0.00 to 41.00.	28 <sup>th</sup> day compressive strength	212.93	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.43	Qty represents - 37.00 m3 for two sets of cubes.
			219.73	Ka/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>223.51</b>			
13	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 30/04/2022. For Retaining wall RHS-1 2 <sup>nd</sup> step at Ch.0.00 to 41.00.	28 <sup>th</sup> day compressive strength	219.73	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	--do--
			226.53	Ka/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>227.28</b>			
14	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 01/05/2022. For Retaining wall LHS 2 <sup>nd</sup> step at Ch.0.00 to 15.00.	28 <sup>th</sup> day compressive strength	237.85	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.54	Qty represents - 36.00 m3 for two sets of cubes.
			244.65	Ka/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>236.34</b>			

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
15	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 01/05/2022. For Retaining wall LHS 2 <sup>nd</sup> step at Ch.0.00 to 15.00.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.43	Qty represents - 36.00 m3 for two sets of cubes.
			224.26	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>223.51</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 01/05/2022. For Retaining wall RHS-1 3 <sup>rd</sup> Lift at Ch.0.00 to 41.00.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.71	Qty represents - 12.00 m3.
			222.00	Kg/Cm <sup>2</sup>			
			224.26	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD II , WDVI , WRD,Valpoi-Sattari - Goa.

2. Copy submitted to The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. Copy submitted to The Executive Engineer , WD VI ,WRD, Bicholim - Goa.

4. QC Lab File.      5. Bill File.

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