

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :2119,2120,2128,2129,2140,2141,2153,/ Lab / **114**/ 2021 - 22 Dated:-16/06/ 2021. Laboratory : Bicholim - Goa.  
2154,2175,2176,2190,2191,2202,2203,2213,2214,2232,2233,2248,2249,2272,2273 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work : Construction of Protection wall for nallah bank in Sy.No.1,3,4,16 Oxel in Siolim Constituency.**

Ref. to Requisition No.: SDI/WDI/WRD/F.57/21-22/73 Dated :- 28/ 05/ 2021.

Qty. Recived. : 22 Sets of cube Date of Receipt:- 02/ 06/ 2021. Tested on: -02,03,04,05,07,08,09,10,12,14,15/06/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1: 2: 4 O.S No. :6358,6359/SS,73,74/RK,6370,6371,6384,6385,6406,6407,6421,6422,6433,6434,6444,6445,6463,6464,6479,6480,6503,6504/SS

Lab. Sample No.: 1659 To 1680 Tested By: Mrs.R.R.Kadam. A.E & Mrs.Shirodkar. J.E.

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Cement concrete cube of mix <b>1:2:4</b> , cast on 05/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents -30.00 Cum for two sets of cubes.
			235.59	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>225.02</b>			
2	Cement concrete cube of mix <b>1:2:4</b> , cast on 05/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.43	----- do -----
			231.06	Kg/Cm <sup>2</sup>			
			228.79	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>223.51</b>			
3	Cement concrete cube of mix <b>1:2:4</b> , cast on 06/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.91	Qty represents -32.00 Cum for two sets of cubes.
			203.87	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>218.22</b>			
4	Cement concrete cube of mix <b>1:2:4</b> , cast on 06/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	----- do -----
			217.47	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>219.73</b>			
5	Cement concrete cube of mix <b>1:2:4</b> , cast on 07/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents -33.00 Cum for two sets of cubes.
			231.06	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>224.26</b>			

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SR. NO	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Cement concrete cube of mix <b>1:2:4</b> , cast on 07/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.91	Qty represents -33.00 Cum for two sets of cubes.
			215.20	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.22</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 08/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.71	Qty represents -30.00 Cum for two sets of cubes.
			210.67	Kg/Cm <sup>2</sup>			
			228.79	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1:2:4</b> , cast on 08/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	----- do -----
			210.67	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>219.73</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1:2:4</b> , cast on 10/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	203.87	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.84	Qty represents - 31.00 Cum for two sets of cubes.
			212.93	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>215.95</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 10/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	----- do -----
			208.40	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 11/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	231.06	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.43	Qty represents - 33.00 Cum for two sets of cubes.
			212.93	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>			
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 11/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	228.79	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	----- do -----
			215.20	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>217.47</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 12/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.71	Qty represents - 32.00 Cum for two sets of cubes.
			212.93	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm<sup>2</sup></b>			

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<b>SR. NO</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value permissible</b>	<b>% above or below</b>	<b>REMARK</b>
14	Cement concrete cube of mix <b>1:2:4</b> , cast on 12/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.20	Qty represents - 32.00 Cum for two sets of cubes.
			217.47	Kg/Cm <sup>2</sup>			
			206.14	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1:2:4</b> , cast on 13/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.03	Qty represents - 30.00 Cum for two sets of cubes.
			233.32	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>231.06</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1:2:4</b> , cast on 13/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.07	----- do -----
			203.87	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.75</b>	<b>Kg/Cm<sup>2</sup></b>			
17	Cement concrete cube of mix <b>1:2:4</b> , cast on 15/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	203.87	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.20	Qty represents -31.00 Cum for two sets of cubes.
			226.53	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>216.71</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Cement concrete cube of mix <b>1:2:4</b> , cast on 15/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	----- do -----
			226.53	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>219.73</b>	<b>Kg/Cm<sup>2</sup></b>			
19	Cement concrete cube of mix <b>1:2:4</b> , cast on 17/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	Qty represents -32.00 Cum for two sets of cubes.
			231.06	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm<sup>2</sup></b>			
20	Cement concrete cube of mix <b>1:2:4</b> , cast on 17/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.48	----- do -----
			203.87	Kg/Cm <sup>2</sup>			
			222.00	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>215.20</b>	<b>Kg/Cm<sup>2</sup></b>			

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<b>SR. NO</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value permissable</b>	<b>% above or below</b>	<b>REMARK</b>
21	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 18/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.07	Qty represents - 33.00 Cum for two sets of cubes.
			222.00	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.75</b>	<b>Kg/Cm<sup>2</sup></b>			
22	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 18/05/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	----- do -----
			208.40	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.04</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD I , WD I , WRD-Porvorim - 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 I ,WRD, Porvorim- Goa.

4. QC Lab File.      5. Bill File.

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