

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :1976,1977,1984,1985,1991,1992/ Lab / **85** / 2021 - 22 Dated:- 26 /05 /2021. Laboratory : Bicholim - Goa.  
,2000,2001,2011,2012 ,2017,2018,2030,2031,2036,2037,2041,2042,2056,2057 Sub Division V (QC)/WRD/ Bicholim- Goa.

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

Ref. to Requisition No.: SDI/WDI/WRD/F.57/21-22/56 Dated :- 10/ 05/ 2021.

Qty. Recived. : 20 Sets of cube Date of Receipt:- 12/ 05 / 2021. Tested on: -14,15,16,17,18,19,20,21,22 & 24/05/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1: 2: 4 O.S No. :6202,6203,6210,6211,6219,6220,6230,6231/SS,65,66/RK,6240,6241,6254,6255,6260,6261,6265,6266,6280,6281/SS & Lab. Sample

No.: 1514 To 1533 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 permissable	% above or below	REMARK
1	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 16/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	222.00	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	Qty represents -30.00 Cum for two sets of cubes.
			203.87	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>217.47</b>			
2	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 16/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	206.14	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.27	----- do -----
			215.20	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>218.98</b>			
3	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 17/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.98	Qty represents -32.00 Cum for two sets of cubes.
			235.59	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>239.36</b>			
4	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 17/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	246.91	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	14.34	----- do -----
			235.59	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>240.12</b>			
5	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 18/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	206.14	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	Qty represents -33.00 Cum for two sets of cubes.
			233.32	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>217.47</b>			
6	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 18/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	258.24	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.47	----- do -----
			217.47	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>234.08</b>			

Junior Engineer

Assistant Engineer

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<b>SR. NO</b>	<b>DISCRIPTION OF SAMPLE</b>	<b>TESTED FOR</b>	<b>RESULTS</b>		<b>Max./Min.Value nermissable</b>	<b>% above or below</b>	<b>REMARK</b>
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 19/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	260.51	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.50	Qty represents - 30.00 Cum for two sets of cubes.
			246.91	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>244.65</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1:2:4</b> , cast on 19/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.82	----- do -----
			235.59	Kg/Cm <sup>2</sup>			
			258.24	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>234.83</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1:2:4</b> , cast on 20/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 31.00 Cum for two sets of cubes.
			231.06	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>224.26</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 20/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	----- do -----
			222.00	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.02</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 21/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.86	Qty represents - 33.00 Cum for two sets of cubes.
			260.51	Kg/Cm <sup>2</sup>			
			249.18	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>245.40</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 21/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	----- do -----
			235.59	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 22/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.62	Qty represents - 33.00 Cum for two sets of cubes.
			240.12	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>238.61</b>	<b>Kg/Cm<sup>2</sup></b>			
14	Cement concrete cube of mix <b>1:2:4</b> , cast on 22/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strenath	258.24	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	18.30	----- do -----
			240.12	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>248.42</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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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>
15	Cement concrete cube of mix <b>1:2:4</b> , cast on 23/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	Qty represents - 31.00 Cum for two sets of cubes.
			208.40	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1:2:4</b> , cast on 23/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.11	----- do -----
			212.93	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>233.32</b>	<b>Kg/Cm<sup>2</sup></b>			
17	Cement concrete cube of mix <b>1:2:4</b> , cast on 24/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 32.00 Cum for two sets of cubes.
			235.59	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Cement concrete cube of mix <b>1:2:4</b> , cast on 24/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.54	----- do -----
			233.32	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>236.34</b>	<b>Kg/Cm<sup>2</sup></b>			
19	Cement concrete cube of mix <b>1:2:4</b> , cast on 26/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	262.77	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	19.02	Qty represents - 30.00 Cum for two sets of cubes.
			246.91	Kg/Cm <sup>2</sup>			
			240.12	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>249.93</b>	<b>Kg/Cm<sup>2</sup></b>			
20	Cement concrete cube of mix <b>1:2:4</b> , cast on 26/04/2021. For Foundation & Plinth.	28 <sup>th</sup> day compressive strength	244.65	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.86	----- do -----
			237.85	Kg/Cm <sup>2</sup>			
			253.71	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>245.40</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.

Junior Engineer

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