

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3114,3130,3131,3138,3139,3145,3146,3153,/ Lab /304/ 2021 - 22 Dated:- 19/ 02/2022. Laboratory : Bicholim - Goa.  
3154,3163,3173,3174,3182,3183,3195 & 3210 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work : Construction of open type Bandhara at Paynin – Joshibhat Surla of Bicholim Taluka.**

Ref. to Requisition No.:F.227/WRD/WDVI/SDI/475/2021-22 Dt.:- 05/ 02/ 2022

Qty. Recived. : 16 Sets of cube Date of Receipt:- 05/02 /2022. Tested on: -05,08,09,10,11,12,14,15,16 & 18/02/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC 1:2:4 O.S No. :7579,7600,7601,7608,7609,7616,7617,7627,7628,7638,7648,7649,7661,7662,7677 & 7697/SS Lab. Sample No.: 2887 To 2902 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 08/01/2022. PCC for Cutoff wall U/S and D/S of Bandhara.	28 <sup>th</sup> day compressive strength	226.53	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.91	Qty represents - 6.50 Cum.
			212.93	Ka/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.22</b>	<b>Ka/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 11/01/2022. PCC for U/S Apron.	28 <sup>th</sup> day compressive strength	229.24	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.55	Qty represents - 4.50 Cum.
			203.87	Ka/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>215.35</b>	<b>Ka/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 11/01/2022. PCC for D/S Apron (0 to 3.50m)	28 <sup>th</sup> day compressive strength	226.53	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 17.00 Cum.
			235.59	Ka/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Ka/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 12/01/2022. PCC for D/S Apron (3.50m to 7.20m)	28 <sup>th</sup> day compressive strength	258.24	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.90	Qty represents - 10.00 Cum.
			226.53	Ka/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>237.10</b>	<b>Ka/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 12/01/2022. PCC for Pier Foundation concrete (Raft bed).	28 <sup>th</sup> day compressive strength	219.73	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	Qty represents - 5.50 Cum.
			237.85	Ka/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.04</b>	<b>Ka/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min. Value permissible	% above or below	REMARK
6	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 13/01/2022. PCC for U/s, RHS Wall.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	Qty represents - 10.50 Cum.
			215.20	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>			
7	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 13/01/2022. PCC for U/s, LHS Wall.	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	Qty represents - 11.50 Cum.
			203.87	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>219.73</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 14/01/2022. PCC for Found. Of Abutment on RHS & LHS.	28 <sup>th</sup> day compressive strength	203.87	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	Qty represents - 6.60 Cum.
			224.26	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 14/01/2022. PCC for D/s, RHS Wall Foundation.	28 <sup>th</sup> day compressive strength	244.65	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.51	Qty represents - 15.00 Cum.
			212.93	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 15/01/2022. PCC for D/s, LHS Wall Foundation.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.67	Qty represents - 7.00 Cum.
			237.85	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>230.30</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 17/01/2022. PCC for U/s, RHS Wall 1st step.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	Qty represents - 8.50 Cum.
			215.20	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>			
12	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 17/01/2022. PCC for U/s, LHS Wall 1st step.	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 - 9.50 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.75</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 18/01/2022. PCC for D/s, RHS Wall 1st step.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	Qty represents - 16.50 Cum.
			235.59	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
14	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 18/01/2022. PCC for D/s, LHS Wall 1st step.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	Qty represents - 5.75 Cum.
			233.32	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.04</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1 : 1.5: 3</b> , cast on 19/01/2022. PCC for Pier Block of Bandhara.	28 <sup>th</sup> day compressive strength	260.51	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	2.29	Qty represents - 16.00 Cum.
			271.83	Kg/Cm <sup>2</sup>			
			280.89	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>271.08</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1 : 1.5: 3</b> , cast on 21/01/2022. PCC for 1 & 2 Piers of Bandhara.	28 <sup>th</sup> day compressive strength	267.30	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.29	Qty represents - 5.00 Cum.
			283.16	Kg/Cm <sup>2</sup>			
			278.63	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>276.36</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD I , WDV I , WRD,Bicholim - 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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