

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 913,930,956,971,979,993,1015,1029,1044/ Lab / **269**/ 2020 - 21 Dated:- 27/ 02 / 2021. Laboratory : Bicholim - Goa  
,1058,1076 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work :: Construction of Bandhara cum Footbridge at Khodgine-Surla in Bicholim Taluka.**

Ref. to Requisition No.:No.F.227/WRD/WDVI/SDI/508/2020-21 Dated :- 05/ 02 / 2021.

Qty. Recived. :11 Sets of cube Date of Receipt:- 05/ 02 / 2021. Tested on: -06,09,10,12,13,15 to 20/02/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 O.S No.:4947,4972,5000,5019,5029,5047,5072,5088,5106,5123,5142/SS Lab. Sample No.:367 to 377 Tested By: Mrs. S.B. Naik 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 09/01/2021. For Upstream side cut off wall.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.43	Qty represents - 9.00 Cum.
			217.47	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>223.51</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 12/01/2021. For Downstream side cut off wall.	28 <sup>th</sup> day compressive strength	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.91	Qty represents - 9.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.22</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 13/01/2021. For Bandhara Foundation.	28 <sup>th</sup> day compressive strength	260.51	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.75	Qty represents - 9.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			210.67	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>232.57</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 15/01/2021. For Foundation of Ret.wall on U/s side of Bandhara L.H.S & R.H.S.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.90	Qty represents - 14.00 Cum
			224.26	Kg/Cm <sup>2</sup>			
			249.18	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>237.10</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 16/01/2021. For Foundation of Ret.wall on D/s side of Bandhara L.H.S.	28 <sup>th</sup> day compressive strength	242.38	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	19.02	Qty represents - 10.00 Cum
			249.18	Kg/Cm <sup>2</sup>			
			258.24	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>249.93</b>	<b>Kg/Cm<sup>2</sup></b>			
6	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 18/01/2021. For Foundation of Ret.wall on D/s side of Bandhara R.H.S.	28 <sup>th</sup> day compressive strength	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.11	Qty represents - 10.00 Cum
			255.97	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>233.32</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
7	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 19/01/2021. For 1 <sup>st</sup> step of Ret.wall on U/s side of Bandhara L.H.S. & R.H.S.	28 <sup>th</sup> day compressive strength	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	11.82	Qty represents - 16.50.
			226.53	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>234.83</b>			
8	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 20/01/2021. For 1 <sup>st</sup> step of Ret.wall on D/s side of Bandhara L.H.S. & R.H.S.	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.90	Qty represents - 23.00.
			235.59	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>237.10</b>			
9	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 21/01/2021. For Apron on U/s side of Bandhara.	28 <sup>th</sup> day compressive strength	253.71	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty represents - 16.00 Cum
			215.20	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>229.55</b>			
10	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 22/01/2021. For Apron on D/s side of Bandhara.	28 <sup>th</sup> day compressive strength	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	Qty represents - 29.00 Cum
			215.20	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>221.24</b>			
11	Cement concrete cube of mix <b>1 : 2 : 4</b> , cast on 23/01/2021. For Apron on D/s side of Bandhara.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.75	Qty represents - 34.00 Cum
			240.12	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>232.57</b>			

Copy to: 1. The Assistant Engineer , SD I , WD VI ,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.

Junior Engineer

Assistant Engineer