

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No: WRD/QC/F.6-2/Cube -T : 6101,6102,6136,6146,6147,6162,6163,6165,6166,6172/Lab/**287**/2022 - 23 Dated:- 22/02/2023. Laboratory : Bicholim - Goa.  
6173,6210,6211,6220,6221,6222. Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work : Restoration and renovation of Existing water spring and tank at Talewada near Varde House in ward No 6 of V.P Ple Cotombi in Sankhali Constituency.**

Ref. to Requisition No : F.251/WRD/WDVI/SDI/400/22-23. Dt.:- 01/02/2023

Qty. Recived. : 16 Sets of cube Date of Receipt:- 08/02/2023. Tested on: - 08,09,10,11,13,14,15,18 & 19/02/2023 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4** O.S No : 112,116,155,168,169,186,187,192,193,201,202,226,227,236,237,238/SS Lab. Sample No: 6182 to 6197

Tested By: Mrs. R.R. Kadam A.E. & Mrs. S.B. Naik Shirodkar. J.E.

**REPORT PAGE 01 OF 03**

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 11/01/2023. PCC For Foundation of Ret wall from Ch 0 to 15m.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 23.00 Cum
			210.67	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>224.26</b>			
2	Cement concrete cube of mix <b>1:2:4</b> , cast on 12/01/2023. PCC For Foundation of Ret wall from Ch 15 to 30m.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	Qty represents - 23.00 Cum
			219.73	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>228.04</b>			
3	Cement concrete cube of mix <b>1:2:4</b> , cast on 13/01/2023. PCC For Foundation of Ret wall from Ch 30 to 45m.	28 <sup>th</sup> day compressive strength	222.00	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.26	Qty represents - 23.00 Cum
			237.85	Kg/Cm <sup>2</sup>			
			253.71	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>237.85</b>			
4	Cement concrete cube of mix <b>1:2:4</b> , cast on 14/01/2023. PCC For Foundation of Ret wall from Ch 45 to 60m.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.54	Qty represents - 23.00 Cum
			226.53	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>236.34</b>			
5	Cement concrete cube of mix <b>1:2:4</b> , cast on 14/01/2023. PCC For 1st Step of Ret wall from Ch 0 to 20m.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	17.22	Qty represents - 18.00 Cum
			253.71	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>246.16</b>			

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 03

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 16/01/2023. PCC For Foundation of Ret wall from Ch 60 to 75m.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	15.06	Qty represents - 23.00 Cum
			242.38	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>241.63</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 16/01/2023. PCC For 1st Step of Ret wall from Ch 20 to 40m.	28 <sup>th</sup> day compressive strength	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.48	Qty represents - 23.00 Cum
			215.20	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>215.20</b>	<b>Kg/Cm<sup>2</sup></b>			
8	Cement concrete cube of mix <b>1:2:4</b> , cast on 17/01/2023. PCC For Foundation of Ret wall from Ch 75 to 90m.	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 - 23.00 Cum
			210.67	Kg/Cm <sup>2</sup>			
			222.00	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 17/01/2023. PCC For 1st Step of Ret wall from Ch 40 to 60m.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	Qty represents - 18.00 Cum
			226.53	Kg/Cm <sup>2</sup>			
			217.47	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 18/01/2023. PCC For Foundation of Ret wall from Ch 90 to 105m.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.03	Qty represents - 23.00 Cum
			235.59	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>231.06</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 18/01/2023. PCC For 1st Step of Ret wall from Ch 60 to 80m.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty represents - 18.00 Cum
			233.32	Kg/Cm <sup>2</sup>			
			228.79	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>229.55</b>	<b>Kg/Cm<sup>2</sup></b>			

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**REPORT PAGE 03 OF 03**

<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>
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 21/01/2023. PCC For 1st Step of Ret wall from Ch 80 to 100m.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.79	Qty represents - 18.00 Cum
			219.73	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>224.26</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 21/01/2023. PCC For 2nd Step of Ret wall from Ch 0 to 40m.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.03	Qty represents - 24.00 Cum
			231.06	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>231.06</b>	<b>Kg/Cm<sup>2</sup></b>			
14	Cement concrete cube of mix <b>1:2:4</b> , cast on 22/01/2023. PCC For 2nd Step of Ret wall from Ch 40 to 80m.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.51	Qty represents - 24.00 Cum
			217.47	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1:2:4</b> , cast on 22/01/2023. PCC For 3rd Step of Ret wall from Ch 0 to 30m.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents - 15.00 Cum
			226.53	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.02</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1:2:4</b> , cast on 22/01/2023. PCC For 2nd Step of Ret wall from Ch 80 to 110m.	28 <sup>th</sup> day compressive strength	244.65	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.14	Qty represents - 18.00 Cum
			249.18	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>243.89</b>	<b>Kg/Cm<sup>2</sup></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.

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