

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No: WRD/QC/F.6-2/Cube -T : 6577,6591,6598,6599,6609,6610,6621,6633/Lab/**32**/2023 - 24 Dated:- 25/04/2023. Laboratory : Bicholim - Goa.  
6639,6650,6654,6659,6671,6680,6696,6714. Sub Division V (OC)/WRD/ Bicholim- Goa.

**Name of work : Construction of Open Type Bandhara at Bhaylo Batye, Gaonkarwada in ward No 9 of V.P Surla in Bicholim Taluka in Sankhali Constituency.**

Ref. to Requisition No : F.249/WRD/WDVI/SDI/486/22-23. Dt.:- 31/03/2023

Qty. Received : 16 Sets of cube Date of Receipt:- 01/04/2023.

Tested on:- 05,06,07,08,10,11,12,13,14,15,17,18,20 & 22/04/2023 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix **1:2:4 & 1:1.5:3** O.S No : 1053,1054,1064,1065,1075,1089,1101/RK & 583,600,617,628,638,649,654,666,677/SS Lab. Sample No: 6686 to 6701

Tested By: Mrs. R.R. Kadam A.E. & Mrs. S.B. Naik 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 08/03/2023. PCC for cut off wall upstream and downstream side.	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	Qty represents - 14.50 Cum
			226.53	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>			
2	Cement concrete cube of mix <b>1:2:4</b> , cast on 09/03/2023. PCC for upstream side Apron.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.07	Qty represents - 13.00 Cum
			226.53	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.75</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1:2:4</b> , cast on 10/03/2023. PCC for downstream side apron 1st Step.	28 <sup>th</sup> day compressive strength	251.44	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	20.09	Qty represents - 30.00 Cum for two sets of cube
			260.51	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>252.20</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1:2:4</b> , cast on 10/03/2023. PCC for downstream side apron 1st Step.	28 <sup>th</sup> day compressive strength	249.18	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	22.61	---do---
			260.51	Kg/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>257.48</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1:2:4</b> , cast on 11/03/2023. PCC for downstream side apron 2nd Step.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.18	Qty represents - 28.00 Cum for two sets of cube
			242.38	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>235.59</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 permissable	% above or below	REMARK
6	Cement concrete cube of mix <b>1:2:4</b> , cast on 11/03/2023. PCC for downstream side apron 2nd Step.	28 <sup>th</sup> day compressive strength	246.91	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.39	Qty represents - 28.00 Cum for two sets of cube
			217.47	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>231.81</b>	<b>Kg/Cm<sup>2</sup></b>			
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 13/03/2023. PCC for retaining wall foundation u/s RHS & LHS wall.	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 - 5.00 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>			
8	Cement concrete cube of mix <b>1:2:4</b> , cast on 14/03/2023. PCC for retaining wall foundation d/s LHS wall.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.62	Qty represents - 9.00 Cum
			244.65	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>238.61</b>	<b>Kg/Cm<sup>2</sup></b>			
9	Cement concrete cube of mix <b>1:2:4</b> , cast on 15/03/2023. PCC for retaining wall foundation d/s RHS wall.	28 <sup>th</sup> day compressive strength	253.71	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	16.50	Qty represents - 9.00 Cum
			235.59	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>244.65</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 16/03/2023. PCC for Abutment RHS & LHS.	28 <sup>th</sup> day compressive strength	262.77	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	17.22	Qty represents - 8.00 Cum
			244.65	Kg/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>246.16</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 17/03/2023. PCC for retaining wall u/s LHS & RHS Wall 1st Step.	28 <sup>th</sup> day compressive strength	240.12	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.62	Qty represents - 8.00 Cum
			249.18	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>			

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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>
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 18/03/2023. PCC for retaining wall u/s LHS & RHS Wall 2nd Step.	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.90	Qty represents - 5.00 Cum
			237.85	Kg/Cm <sup>2</sup>			
			246.91	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>237.10</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 20/03/2023. PCC for retaining wall d/s LHS & RHS Wall 1st Step.	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.51	Qty represents - 15.00 Cum
			226.53	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm<sup>2</sup></b>			
14	Cement concrete cube of mix <b>1:2:4</b> , cast on 21/03/2023. PCC for retaining wall d/s LHS & RHS Wall 2nd Step.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.39	Qty represents - 8.00 Cum
			222.00	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>231.81</b>	<b>Kg/Cm<sup>2</sup></b>			
15	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 23/03/2023. RCC for Raft of Bandhara.	28 <sup>th</sup> day compressive strength	276.36	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	4.57	Qty represents - 21.00 Cum
			289.95	Kg/Cm <sup>2</sup>			
			265.04	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>277.12</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1:1.5:3</b> , cast on 25/03/2023. RCC for Piers of Bandharas.	28 <sup>th</sup> day compressive strength	265.04	Kg/Cm <sup>2</sup>	265.00 Kg/cm <sup>2</sup>	5.14	Qty represents - 8.00 Cum
			276.36	Kg/Cm <sup>2</sup>			
			294.48	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>278.63</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer, SDI, WDVI, 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, WDVI, WRD, Bicholim- Goa.

4. QC Lab File.      5. Bill File.

**Junior Engineer**

**Assistant Engineer**