

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 1313,1314,1325,1326,1343,1344,1353,1354,1376,1377,/ Lab / **12**/ 2021 - 22 Dated:-16/ 04 / 2021. Laboratory : Bicholim - Goa.
1401,1402,1421,1422,1441,1442,1466, 1467,1481,1482,1501,1502,1518,1519,1532,1533,1542,1543,1548,1549 Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work :Improvement to the existing Bund and Manas at Konadi Corgao in Pernem Taluka.

Ref. to Requisition No.:MI/ SDIII/WDI/F-58/2019-20/423 Dated :- 05/ 03/ 2021.

Qty. Recived. :30 Sets of cube Date of Receipt:- 05/ 03 / 2021. Tested on: -15 to 20,22 to 27,29,29,30 & 31/03/2021 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1 : 2 : 4 O.S No. :

5418,5419,5433,5434,5454,5455,5572,5573,5500,5501,5527,5528,5552,5553,5597,5598,5613,5614,5636,5637,5656,5657,5672,5673,5682,5683,5687,5688.

Lab. Sample No.: 727 To 756 Tested By: 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 1 : 2 :4 , cast on 15/02/2021. For Ch90.00to 140.00 (1)	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	3.91	Qty represents - 36.00 Cum for two sets of cubes.
			222.00	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	218.22	Kg/Cm²			
2	Cement concrete cube of mix 1 : 2 :4 , cast on 15/02/2021. For Ch90.00to 140.00 (1)	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	11.82	----- do -----
			226.53	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	234.83	Kg/Cm²			
3	Cement concrete cube of mix 1 : 2 :4 , cast on 16/02/2021. For Ch140.00to 170.00 (1)	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	9.31	Qty represents - 36.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	229.55	Kg/Cm²			
4	Cement concrete cube of mix 1 : 2 :4 , cast on 16/02/2021. For Ch140.00to 170.00 (1)	28 th day compressive strength	260.51	Kg/Cm ²	210.00 Kg/cm ²	17.58	----- do -----
			244.65	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	246.91	Kg/Cm²			
5	Cement concrete cube of mix 1 : 2 :4 , cast on 17/02/2021. For Ch 170.00to 200.00 (1)	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	8.95	Qty represents - 36.00 Cum for two sets of cubes.
			240.12	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	228.79	Kg/Cm²			
6	Cement concrete cube of mix 1 : 2 :4 , cast on 17/02/2021. For Ch 170.00to 200.00 (1)	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	8.95	----- do -----
			246.91	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	228.79	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
7	Cement concrete cube of mix 1 : 2 :4 , cast on 18/02/2021. For Ch 50.00to 100.00 (2)	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 36.00 Cum for two sets of cubes.
			237.85	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
8	Cement concrete cube of mix 1 : 2 :4 , cast on 18/02/2021. For Ch 50.00to 100.00 (2)	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	11.47	----- do -----
			226.53	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	234.08	Kg/Cm²			
9	Cement concrete cube of mix 1 : 2 :4 , cast on 19/02/2021. For Ch 100.00to 150.00 (2)	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	4.99	Qty represents - 36.00 Cum for two sets of cubes.
			208.40	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	220.49	Kg/Cm²			
10	Cement concrete cube of mix 1 : 2 :4 , cast on 19/02/2021. For Ch 100.00to 150.00 (2)	28 th day compressive strength	262.77	Kg/Cm ²	210.00 Kg/cm ²	16.14	----- do -----
			237.85	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	243.89	Kg/Cm²			
11	Cement concrete cube of mix 1 : 2 :4 , cast on 20/02/2021. For Ch 150.00to 200.00 (2)	28 th day compressive strength	249.18	Kg/Cm ²	210.00 Kg/cm ²	16.86	Qty represents - 36.00 Cum for two sets of cubes.
			260.51	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	245.40	Kg/Cm²			
12	Cement concrete cube of mix 1 : 2 :4 , cast on 20/02/2021. For Ch 150.00to 200.00 (2)	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	13.62	----- do -----
			244.65	Kg/Cm ²			
			233.32	Kg/Cm ²			
		Average	238.61	Kg/Cm²			
13	Cement concrete cube of mix 1 : 2 :4 , cast on 22/02/2021. For Ch 30.00to 90.00 (3)	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.59	Qty represents - 32.00 Cum for two sets of cubes.
			217.47	Kg/Cm ²			
			240.12	Kg/Cm ²			
		Average	228.04	Kg/Cm²			
14	Cement concrete cube of mix 1 : 2 :4 , cast on 22/02/2021. For Ch 30.00to 90.00 (3)	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	8.23	----- do -----
			235.59	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	227.28	Kg/Cm²			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
15	Cement concrete cube of mix 1 : 2 :4 , cast on 23/02/2021. For Ch 90.00to 150.00 (3)	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 40.00 Cum for two sets of cubes.
			233.32	Kg/Cm ²			
			217.47	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
16	Cement concrete cube of mix 1 : 2 :4 , cast on 23/02/2021. For Ch 90.00to 150.00 (3)	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	15.78	----- do -----
			260.51	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	243.14	Kg/Cm²			
17	Cement concrete cube of mix 1 : 2 :4 , cast on 24/02/2021. For Ch 150.00to 210.00 (3)	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	6.07	Qty represents - 36.00 Cum for two sets of cubes.
			233.32	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	222.75	Kg/Cm²			
18	Cement concrete cube of mix 1 : 2 :4 , cast on 24/02/2021. For Ch 150.00to 210.00 (3)	28 th day compressive strength	240.12	Kg/Cm ²	210.00 Kg/cm ²	14.70	----- do -----
			246.91	Kg/Cm ²			
			235.59	Kg/Cm ²			
		Average	240.87	Kg/Cm²			
19	Cement concrete cube of mix 1 : 2 :4 , cast on 25/02/2021. For Ch 30.00to 130.00 (4)	28 th day compressive strength	244.65	Kg/Cm ²	210.00 Kg/cm ²	12.54	Qty represents - 40.00 Cum for two sets of cubes.
			235.59	Kg/Cm ²			
			228.79	Kg/Cm ²			
		Average	236.34	Kg/Cm²			
20	Cement concrete cube of mix 1 : 2 :4 , cast on 25/02/2021. For Ch 30.00to 130.00 (4)	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	4.63	----- do -----
			208.40	Kg/Cm ²			
			212.93	Kg/Cm ²			
		Average	219.73	Kg/Cm²			
21	Cement concrete cube of mix 1 : 2 :4 , cast on 26/02/2021. For Ch 200.00to 230.00 (1)	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	11.47	Qty represents - 40.00 Cum for two sets of cubes.
			237.85	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	234.08	Kg/Cm²			
22	Cement concrete cube of mix 1 : 2 :4 , cast on 26/02/2021. For Ch 200.00to 230.00 (1)	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	4.99	----- do -----
			215.20	Kg/Cm ²			
			219.73	Kg/Cm ²			
		Average	220.49	Kg/Cm²			

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
23	Cement concrete cube of mix 1 : 2 :4 , cast on 27/02/2021. For Ch 230.00to 250.00 (1)	28 th day compressive strength	253.71	Kg/Cm ²	210.00 Kg/cm ²	12.90	Qty represents -36.00 Cum for two sets of cubes.
			231.06	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	237.10	Kg/Cm²			
24	Cement concrete cube of mix 1 : 2 :4 , cast on 27/02/2021. For Ch 230.00to 250.00 (1)	28 th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	11.11	----- do -----
			253.71	Kg/Cm ²			
			231.06	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
25	Cement concrete cube of mix 1 : 2 :4 , cast on 01/03/2021. For Ch 250.00to 280.00 (1)	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	11.11	Qty represents - 40.00 Cum for two sets of cubes.
			249.18	Kg/Cm ²			
			237.85	Kg/Cm ²			
		Average	233.32	Kg/Cm²			
26	Cement concrete cube of mix 1 : 2 :4 , cast on 01/03/2021. For Ch 250.00to 280.00 (1)	28 th day compressive strength	237.85	Kg/Cm ²	210.00 Kg/cm ²	6.79	----- do -----
			226.53	Kg/Cm ²			
			208.40	Kg/Cm ²			
		Average	224.26	Kg/Cm²			
27	Cement concrete cube of mix 1 : 2 :4 , cast on 02/03/2021. For Ch 200.00to 250.00 (2)	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	3.20	Qty represents - 36.00 Cum for two sets of cubes.
			215.20	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
28	Cement concrete cube of mix 1 : 2 :4 , cast on 02/03/2021. For Ch 200.00to 250.00 (2)	28 th day compressive strength	235.59	Kg/Cm ²	210.00 Kg/cm ²	10.39	----- do -----
			233.32	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	231.81	Kg/Cm²			
29	Cement concrete cube of mix 1 : 2 :4 , cast on 03/03/2021. For Ch 40.00to 110.00 (5)	28 th day compressive strength	212.93	Kg/Cm ²	210.00 Kg/cm ²	9.67	Qty represents - 36.00 Cum for two sets of cubes.
			233.32	Kg/Cm ²			
			244.65	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
30	Cement concrete cube of mix 1 : 2 :4 , cast on 03/03/2021. For Ch 40.00to 110.00 (5)	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	----- do -----
			217.47	Kg/Cm ²			
			246.91	Kg/Cm ²			
		Average	230.30	Kg/Cm²			

Copy to: 1. The Assistant Engineer , SD III , WD I, WRD-Pernem - 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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