

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T :6879,6880,6889,6890,6913,6914,6962,6963,6987,6988,/ Lab / **196** / 2019 - 20 Dated:- 17 / 06 / 2019 Laboratory : Bicholim - Goa.  
7011,7012,7038,7039,7061,7062,7096,7097,7144,7145,7161,7162,7186,7187,7222,7223 Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of Work: - Desilting of nallah at Angod and Improvement to Kekdin Tali at Angod Ibrampur in Pernem Taluka.**

Ref. to Requisition No.: MI/SDIII/WDI/WRD/ F. 4 /2019-20/ **147** Dated :- 23 / 05 / 2019.

Qty. Recived. : 26 Sets of cube Date of Receipt :- 24 /05/ 2019. Tested on: 30/05/2019 To 13/06/2019. as per due dates. Ref to CPWD :2002, Vol. I

Sample: Cube 1:2:4 Mix O.S No. : 523,524,533,534,557,558/SP,2020,2021,2047,2048,2073,2074,2102,2103,2126,2127,2163,2164,2194,2195,2210,2211,2222,2223,2233,2234/SS.

Lab. Sample No.: 4866 To 4891. Tested By: - Mr. S.M.Patri. A.E & Mrs. S.B. Naik Shirodkar. J.E.

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Cube test Witnessed by Shri. Rajeev Kadam JE, SDIII, WD I,WRD Pernem Goa on 01/06/2019.

SR.N O.	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 02 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	222.00	Kg/Cm2	210 kg/cm2	4.63	1. Quantity represents 10.00 Cum. 2. Excat location of work done is not specified.
			210.67	Kg/Cm2			
			226.53	Kg/Cm2			
		<b>Average</b>	<b>219.73</b>	<b>Kg/Cm2</b>			
2	Cement concrete cube of mix 1:2:4 , cast on 02 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	231.06	Kg/Cm2	210 kg/cm2	6.07	1. Quantity represents 10.50 Cum. 2. Excat location of work done is not specified.
			222.00	Kg/Cm2			
			215.20	Kg/Cm2			
		<b>Average</b>	<b>222.75</b>	<b>Kg/Cm2</b>			
3	Cement concrete cube of mix 1:2:4 , cast on 03 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	201.61	Kg/Cm2	210 kg/cm2	0.68	1. Quantity represents 8.50 Cum. 2. Excat location of work done is not specified.
			226.53	Kg/Cm2			
			206.14	Kg/Cm2			
		<b>Average</b>	<b>211.42</b>	<b>Kg/Cm2</b>			
4	Cement concrete cube of mix 1:2:4 , cast on 03 / 05 / 2019, For Walls & Foundation	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm2	210 kg/cm2	2.48	1. Quantity represents 10.50 Cum. 2. Excat location of work done is not specified.
			212.93	Kg/Cm2			
			224.26	Kg/Cm2			
		<b>Average</b>	<b>215.20</b>	<b>Kg/Cm2</b>			
5	Cement concrete cube of mix 1:2:4 , cast on 04 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	224.26	Kg/Cm2	210 kg/cm2	2.12	1. Quantity represents 09.50 Cum. 2. Excat location of work done is not specified.
			210.67	Kg/Cm2			
			208.40	Kg/Cm2			
		<b>Average</b>	<b>214.44</b>	<b>Kg/Cm2</b>			
6	Cement concrete cube of mix 1:2:4 , cast on 04 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm2	210 kg/cm2	6.43	1. Quantity represents 10.50 Cum. 2. Excat location of work done is not specified.
			224.26	Kg/Cm2			
			228.79	Kg/Cm2			
		<b>Average</b>	<b>223.51</b>	<b>Kg/Cm2</b>			

Junior Engineer

Assistant Engineer

SR.N O.	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 06 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	212.93	Kg/Cm2	210 kg/cm2	5.71	1. Quantity represents 10.50 Cum. 2. Excat location of work done is not specified.
			231.06	Kg/Cm2			
			222.00	Kg/Cm2			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm2</b>			
8	Cement concrete cube of mix 1:2:4 , cast on 06 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm2	210 kg/cm2	4.99	1. Quantity represents 9.50 Cum. 2. Excat location of work done is not specified.
			226.53	Kg/Cm2			
			208.40	Kg/Cm2			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm2</b>			
9	Cement concrete cube of mix 1:2:4 , cast on 07 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm2	210 kg/cm2	10.39	1. Quantity represents 9.50 Cum. 2. Excat location of work done is not specified.
			226.53	Kg/Cm2			
			231.06	Kg/Cm2			
		<b>Average</b>	<b>231.81</b>	<b>Kg/Cm2</b>			
10	Cement concrete cube of mix 1:2:4 , cast on 07 / 05 / 2019, For walls	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm2	210 kg/cm2	7.15	1. Quantity represents 10.50 Cum. 2. Excat location of work done is not specified.
			233.32	Kg/Cm2			
			222.00	Kg/Cm2			
		<b>Average</b>	<b>225.02</b>	<b>Kg/Cm2</b>			
11	Cement concrete cube of mix 1:2:4 , cast on 08 / 05 / 2019, For walls	28 <sup>th</sup> day compressive strength	222.00	Kg/Cm2	210 kg/cm2	8.23	1. Quantity represents 10.00 Cum. 2. Excat location of work done is not specified.
			233.32	Kg/Cm2			
			226.53	Kg/Cm2			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm2</b>			
12	Cement concrete cube of mix 1:2:4 , cast on 08 / 05 / 2019, For walls	28 <sup>th</sup> day compressive strength	210.67	Kg/Cm2	210 kg/cm2	6.07	1. Quantity represents 11.00 Cum. 2. Excat location of work done is not specified.
			240.12	Kg/Cm2			
			217.47	Kg/Cm2			
		<b>Average</b>	<b>222.75</b>	<b>Kg/Cm2</b>			
13	Cement concrete cube of mix 1:2:4 , cast on 09 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm2	210 kg/cm2	6.43	1. Quantity represents 10.50 Cum. 2. Excat location of work done is not specified.
			219.73	Kg/Cm2			
			215.20	Kg/Cm2			
		<b>Average</b>	<b>223.51</b>	<b>Kg/Cm2</b>			
14	Cement concrete cube of mix 1:2:4 , cast on 09 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm2	210 kg/cm2	4.99	1. Quantity represents 9.50 Cum. 2. Excat location of work done is not specified.
			215.20	Kg/Cm2			
			237.85	Kg/Cm2			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm2</b>			
15	Cement concrete cube of mix 1:2:4 , cast on 10 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm2	210 kg/cm2	11.11	1. Quantity represents 8.50 Cum. 2. Excat location of work done is not specified.
			237.85	Kg/Cm2			
			226.53	Kg/Cm2			
		<b>Average</b>	<b>233.32</b>	<b>Kg/Cm2</b>			

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
16	Cement concrete cube of mix 1:2:4 , cast on 10 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	224.26	Kg/Cm2	210 kg/cm2	16.14	1. Quantity represents 7.50 Cum. 2. Excat location of work done is not specified.
			262.77	Kg/Cm2			
			244.65	Kg/Cm2			
		<b>Average</b>	<b>243.89</b>	<b>Kg/Cm2</b>			
17	Cement concrete cube of mix 1:2:4 , cast on 11 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	203.87	Kg/Cm2	210 kg/cm2	5.35	1. Quantity represents 8.50 Cum. 2. Excat location of work done is not specified.
			224.26	Kg/Cm2			
			235.59	Kg/Cm2			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm2</b>			
18	Cement concrete cube of mix 1:2:4 , cast on 11 / 05 / 2019, For Foundation	28 <sup>th</sup> day compressive strength	260.51	Kg/Cm2	210 kg/cm2	12.54	1. Quantity represents 10.00 Cum. 2. Excat location of work done is not specified.
			222.00	Kg/Cm2			
			226.53	Kg/Cm2			
		<b>Average</b>	<b>236.34</b>	<b>Kg/Cm2</b>			
19	Cement concrete cube of mix 1:2:4 , cast on 13 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm2	210 kg/cm2	5.71	1. Quantity represents 10.50 Cum. 2. Excat location of work done is not specified.
			226.53	Kg/Cm2			
			231.06	Kg/Cm2			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm2</b>			
20	Cement concrete cube of mix 1:2:4 , cast on 13 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm2	210 kg/cm2	21.17	1. Quantity represents 11.50 Cum. 2. Excat location of work done is not specified.
			271.83	Kg/Cm2			
			253.71	Kg/Cm2			
		<b>Average</b>	<b>254.46</b>	<b>Kg/Cm2</b>			
21	Cement concrete cube of mix 1:2:4 , cast on 14 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	222.00	Kg/Cm2	210 kg/cm2	8.23	1. Quantity represents 8.50 Cum. 2. Excat location of work done is not specified.
			228.79	Kg/Cm2			
			231.06	Kg/Cm2			
		<b>Average</b>	<b>227.28</b>	<b>Kg/Cm2</b>			
22	Cement concrete cube of mix 1:2:4 , cast on 14 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm2	210 kg/cm2	7.51	1. Quantity represents 7.50 Cum. 2. Excat location of work done is not specified.
			242.38	Kg/Cm2			
			226.53	Kg/Cm2			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm2</b>			
23	Cement concrete cube of mix 1:2:4 , cast on 15 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm2	210 kg/cm2	5.35	1. Quantity represents 7.50 Cum. 2. Excat location of work done is not specified.
			212.93	Kg/Cm2			
			224.26	Kg/Cm2			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm2</b>			

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
24	Cement concrete cube of mix 1:2:4 , cast on 15 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	203.87	Kg/Cm2	210 kg/cm2	4.99	1. Quantity represents 7.50 Cum. 2. Excat location of work done is not specified.
			231.06	Kg/Cm2			
			226.53	Kg/Cm2			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm2</b>			
25	Cement concrete cube of mix 1:2:4 , cast on 16 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm2	210 kg/cm2	5.71	1. Quantity represents 8.50 Cum. 2. Excat location of work done is not specified.
			231.06	Kg/Cm2			
			215.20	Kg/Cm2			
		<b>Average</b>	<b>222.00</b>	<b>Kg/Cm2</b>			
26	Cement concrete cube of mix 1:2:4 , cast on 16 / 05 / 2019, For Walls	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm2	210 kg/cm2	7.51	1. Quantity represents 8.50 Cum. 2. Excat location of work done is not specified.
			212.93	Kg/Cm2			
			226.53	Kg/Cm2			
		<b>Average</b>	<b>225.77</b>	<b>Kg/Cm2</b>			

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

Assistant Engineer