

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 3413,3414,3424,3425,3432/ Lab /336/ 2021 - 22 Dated:- 19 / 03 /2022.

Laboratory : Bicholim - Goa.

3433,3440, 3441,3447,3448,3458,3459,3472,3473,3480,3481,3494 & 3495

Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work : Construction of Protection wall for Nalla on both sides from main road to Sagun Sinari House and Govind Parab house to shekri, at Pimpalwada, Amona in Bicholim taluka.**

Ref. to Requisition No.: F.226/WRD/WDVI/SDI/532/2021-22 Dt.:- 08/ 03 /2022.

Qty. Recived. : 18 Sets of cube Date of Receipt:- 10/ 03/ 2022. Tested on: -10,11,12,13,14,15,16,17 & 18/03/2022 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix PCC 1:2:4 O.S No. :7890,7891,7902,7903,7910,7911,7918 & 7919/SS , 164 & 165/R.K. , 7931 & 7932/SS , 177 & 178/R.K. , 7941,7942,7954 & 7955/SS Lab. Sample No.: 3281 to 3298 Tested By: Mrs. R.R.Kadam A.E. & Mrs. S.B. Naik Shirodkar. J.E.

**REPORT PAGE 01 OF 03**

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Valu e permissable	% above or below	REMARK
1	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 10/02/2022. PCC for foundation of R.H.S wall from Ch 520m to Ch 530m	28 <sup>th</sup> day compressive strength	240.12	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	18.30	Qty represents - 18.00 Cum.
			242.38	Ka/Cm <sup>2</sup>			
			262.77	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>248.42</b>	<b>Ka/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 10/02/2022. PCC for foundation of L.H.S wall from Ch 520m to Ch 530m	28 <sup>th</sup> day compressive strength	262.77	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	20.45	Qty represents - 18.00 Cum.
			237.85	Ka/Cm <sup>2</sup>			
			258.24	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>252.95</b>	<b>Ka/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 11/02/2022. PCC for foundation of R.H.S wall from Ch 530m to Ch 540m	28 <sup>th</sup> day compressive strength	242.38	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.98	Qty represents - 18.00 Cum.
			244.65	Ka/Cm <sup>2</sup>			
			231.06	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>239.36</b>	<b>Ka/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 11/02/2022. PCC for foundation of L.H.S wall from Ch 530m to Ch 540m	28 <sup>th</sup> day compressive strength	244.65	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.54	Qty represents - 18.00 Cum.
			237.85	Ka/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>236.34</b>	<b>Ka/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 12/02/2022. PCC for foundation of R.H.S wall from Ch 540m to Ch 550m	28 <sup>th</sup> day compressive strength	217.47	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.07	Qty represents - 18.00 Cum.
			226.53	Ka/Cm <sup>2</sup>			
			224.26	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>222.75</b>	<b>Ka/Cm<sup>2</sup></b>			
6	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 12/02/2022. PCC for foundation of L.H.S wall from Ch 540m to Ch 550m	28 <sup>th</sup> day compressive strength	210.67	Ka/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.63	Qty represents - 18.00 Cum.
			222.00	Ka/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>219.73</b>	<b>Ka/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 03

SR.N O.	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 13/02/2022. PCC for foundation of R.H.S wall from Ch 550m to Ch 560m	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	12.18	Qty represents - 18.00 Cum.
			233.32	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>			
8	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 13/02/2022. PCC for foundation of L.H.S wall from Ch 550m to Ch 560m	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 - 18.00 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>			
9	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 14/02/2022. PCC for foundation of R.H.S wall from Ch 560m to Ch 570m	28 <sup>th</sup> day compressive strength	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	2.12	Qty represents - 18.00 Cum.
			206.14	Kg/Cm <sup>2</sup>			
			224.26	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>214.44</b>	<b>Kg/Cm<sup>2</sup></b>			
10	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 14/02/2022. PCC for foundation of L.H.S wall from Ch 560m to Ch 570m	28 <sup>th</sup> day compressive strength	240.12	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>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>224.26</b>	<b>Kg/Cm<sup>2</sup></b>			
11	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 15/02/2022. PCC for 1st step of L.H.S wall from Ch 510m to Ch 530m	28 <sup>th</sup> day compressive strength	258.24	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	15.78	Qty represents - 27.00 Cum.
			226.53	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>243.14</b>	<b>Kg/Cm<sup>2</sup></b>			
12	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 15/02/2022. PCC for 1st step of R.H.S wall from Ch 510m to Ch 530m	28 <sup>th</sup> day compressive strength	244.65	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	13.26	Qty represents - 27.00 Cum.
			233.32	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>237.85</b>	<b>Kg/Cm<sup>2</sup></b>			
13	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 16/02/2022. PCC for 1st step of L.H.S wall from Ch 530m to Ch 550m	28 <sup>th</sup> day compressive strength	217.47	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	Qty represents - 27.00 Cum.
			231.06	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm<sup>2</sup></b>			
14	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 16/02/2022. PCC for 1st step of R.H.S wall from Ch 530m to Ch 550m	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.87	Qty represents - 27.00 Cum.
			219.73	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>226.53</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

**REPORT PAGE 03 OF 03**

<b>SR.N O.</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>
15	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 17/02/2022. PCC for 2nd step of R.H.S wall from Ch 510m to Ch 530m	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.59	Qty represents - 18.00 Cum.
			231.06	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>228.04</b>	<b>Kg/Cm<sup>2</sup></b>			
16	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 17/02/2022. PCC for 2nd step of L.H.S wall from Ch 510m to Ch 530m	28 <sup>th</sup> day compressive strength	251.44	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	19.74	Qty represents - 18.00 Cum.
			258.24	Kg/Cm <sup>2</sup>			
			244.65	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>251.44</b>	<b>Kg/Cm<sup>2</sup></b>			
17	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 18/02/2022. PCC for 2nd step of R.H.S wall from Ch 530m to Ch 550m	28 <sup>th</sup> day compressive strength	226.53	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	7.15	Qty represents - 18.00 Cum.
			215.20	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>225.02</b>	<b>Kg/Cm<sup>2</sup></b>			
18	Cement concrete cube of mix <b>1 : 2: 4</b> , cast on 18/02/2022. PCC for 2nd step of L.H.S wall from Ch 530m to Ch 550m	28 <sup>th</sup> day compressive strength	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.43	Qty represents - 18.00 Cum.
			217.47	Kg/Cm <sup>2</sup>			
			219.73	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>223.51</b>	<b>Kg/Cm<sup>2</sup></b>			

Copy to: 1. The Assistant Engineer , SD I , WDV I , 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