

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/ Cube -T :4968,4969,4978,4979,4986,4987./ Lab / **241** / 2018 -19 Dated: 24 /01 / 2019 Laboratory : Bicholim - Goa.
Sub Division V (QC)/WRD/ Bicholim

Name of work : Construction of Sanqueilim Distributory of L.B.M.C. of T.I.P. from Ch. 7.360 km to Ch. 10.480 km at villages Sarvan and Karapur in Bicholim Taluka.

Ref. to Requisition No.: F.232 / WRD / WD VIII / SD VI / 2018-19 / 94 dated :- 27 / 12 / 2018.

Qty. Recived. : 03 Sets of cube Date of Receipt:- 27 / 12 / 2018. Tested on: - 17,18 & 19 /01 / 2019.

Ref to CPWD :2002, Vol. I

Sample: Cube PCC 1 : 2 : 4 Mix O.S No. : 586,587,597,598,610,611/SS Lab. Sample No.: 2739 & 2744 Tested By:- Mrs. S.B.Naik Shirodkar. JE.

REPORT PAGE 01 OF 02

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 20/12/2018, for canal lining from ch. 9885 m to ch. 9945 m. Quantity represents 22.60 Cum	28 th day compressive strength	233.32	Kg/Cm2	210.00 kg/cm2	10.39	Two sets of cubes represents 22.60 Cum.
			226.53	Kg/Cm2			
			235.59	Kg/Cm2			
		Average	231.81	Kg/Cm2			
2	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 20/12/2018, for canal lining from ch. 9885 m to ch. 9945 m. Quantity represents 22.60 Cum	28 th day compressive strength	242.38	Kg/Cm2	210.00 kg/cm2	11.11	... Do....
			226.53	Kg/Cm2			
			231.06	Kg/Cm2			
		Average	233.32	Kg/Cm2			
3	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 21/12/2018, for canal lining from ch. 9945 m to ch. 9990 m. Quantity represents 17.00 Cum	28 th day compressive strength	215.20	Kg/Cm2	210.00 kg/cm2	8.59	Two sets of cubes represents 17.00 Cum.
			231.06	Kg/Cm2			
			237.85	Kg/Cm2			
		Average	228.04	Kg/Cm2			
4	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 21/12/2018, for canal lining from ch. 9945 m to ch. 9990 m. Quantity represents 17.00 Cum	28 th day compressive strength	226.53	Kg/Cm2	210.00 kg/cm2	9.31	... Do....
			240.12	Kg/Cm2			
			222.00	Kg/Cm2			
		Average	229.55	Kg/Cm2			

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 02

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
5	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 22/12/2018, for canal lining from ch. 9990 m to ch. 10035 m. Quantity represents 17.20 Cum	28 th day compressive strength	262.77	Kg/Cm2	210.00 kg/cm2	15.78	Two sets of cubes represents 17.20 Cum.
			226.53	Kg/Cm2			
			240.12	Kg/Cm2			
		Average	243.14	Kg/Cm2			
6	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 22/12/2018, for canal lining from ch. 9990 m to ch. 10035 m. Quantity represents 17.20 Cum	28 th day compressive strength	242.38	Kg/Cm2	210.00 kg/cm2	13.98	... Do....
			226.53	Kg/Cm2			
			249.18	Kg/Cm2			
		Average	239.36	Kg/Cm2			

Copy to: 1. The Assistant Engineer , SD VI , WD VIII, 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 VIII ,WRD, Karaswada -Bardez - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 5956,5974,5979,6004,6052,6064, / Lab / **33** / 2019 - 20 Dated:- 11 / 04 / 2019 Laboratory : Bicholim - Goa.
Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work : Construction of Outlets and Field channels for D.O.R.-11, D.O.R. -12, D.O.R. -13 and D.O.R.-14 of S.D.C. of L.B.M.C. of T.I.P. at Bicholim Taluka.

Ref. to Requisition No.: WRD /WD VIII / SD VI / F.249 / 2018-19 / 146 dated :- 19 / 03 / 2019.

Qty. Recived. : 06 Sets of cube Date of Receipt:- 19 / 03 / 2019. Tested on: - 25 / 03 / 2019 To 02/04/2019 as per due dates. Ref to CPWD :2002, Vol. I

Sample: Cube Mix 1 : 2 : 4 O.S No. : 1436,1449,1455,1480,1523,1538 /SS. Lab. Sample No.: 3897 To 3902 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 25/02/2019, PCC for chambers and pedestals of Outlet No. 12 . Qty represents - 14.50 Cum.	28 th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	9.67	..
			219.73	Kg/Cm ²			
			244.65	Kg/Cm ²			
			Average	230.30			
2	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 26/02/2019, PCC for chambers and pedestals of Outlet No. 12 . Qty represents - 14.80 Cum.	28 th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	3.91	..
			212.93	Kg/Cm ²			
			237.85	Kg/Cm ²			
			Average	218.22			
3	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 27/02/2019, PCC for chambers and pedestals of Outlet No. 13 . Qty represents - 15.00 Cum.	28 th day compressive strength	208.40	Kg/Cm ²	210.00 Kg/cm ²	2.84	..
			222.00	Kg/Cm ²			
			217.47	Kg/Cm ²			
			Average	215.95			
4	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 28/02/2019, PCC for chambers and pedestals of Outlet No. 12 . Qty represents - 14.70 Cum.	28 th day compressive strength	224.26	Kg/Cm ²	210.00 Kg/cm ²	3.55	..
			206.14	Kg/Cm ²			
			222.00	Kg/Cm ²			
			Average	217.47			
5	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 04 /03/2019, PCC for chambers and pedestals of Outlet No. 13 . Qty represents - 14.80 Cum.	28 th day compressive strength	231.06	Kg/Cm ²	210.00 Kg/cm ²	5.35	..
			217.47	Kg/Cm ²			
			215.20	Kg/Cm ²			
			Average	221.24			
6	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 05 /03/2019, PCC for chambers and pedestals of Outlet No. 14 . Qty represents - 14.90 Cum.	28 th day compressive strength	219.73	Kg/Cm ²	210.00 Kg/cm ²	3.91	..
			224.26	Kg/Cm ²			
			210.67	Kg/Cm ²			
			Average	218.22			

Copy to: 1. The Assistant Engineer , SD VI , WD VIII, 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 VIII ,WRD, Karaswada -Bardez - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 4957,4961,4970,4980,4992./Lab/ **242** / 2018 - 19

Dated: 24 / 01 / 2019 Laboratory : Bicholim -,Goa.
Sub Division V (QC)/WRD/ Bicholim - Goa.

Name of work : Improvement to Bund from Sy. No. 129 To 137 in field of Katar in Guddem Dando in V.P. Siolim in Siolim Constituency.

Ref. to Requisition no.: - MI/ SD -I /WD I / WRD/ F.57 / 2018-19 / 574 dated :- 10 / 01 / 2019.

Qty. Recived. : 05 Sets of cube Date of Receipt: 15 / 01 / 2019. Tested on: - 15/01/19 To 19/01/2019.

Ref to CPWD :2002, Vol. I

Sample: Cube Mix 1 : 2 : 4 O.S No. : 570,575,588,599,616 /SS. Lab. Sample No.: 2854 To 2858

Tested By: Mrs. S.B. Naik Shirodkar. J.E.

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 18 / 12 / 2 018, for Foundation & Plinth.	28 th day compressive strength	280.89	Kg/Cm2	210.00 Kg/cm ²	15.78	Quantity represents 30.00 Cum .
			267.30	Kg/Cm2			
			181.22	Kg/Cm2			
		Average	243.14	Kg/Cm2			
2	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 19 / 12 / 2 018, for Foundation & Plinth.	28 th day compressive strength	206.14	Kg/Cm2	210.00 Kg/cm ²	9.67	Quantity represents 29.00 Cum .
			267.30	Kg/Cm2			
			217.47	Kg/Cm2			
		Average	230.30	Kg/Cm2			
3	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 20 / 12 / 2 018, for Foundation & Plinth.	28 th day compressive strength	199.34	Kg/Cm2	210.00 Kg/cm ²	3.20	Quantity represents 29.00 Cum .
			235.59	Kg/Cm2			
			215.20	Kg/Cm2			
		Average	216.71	Kg/Cm2			
4	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 21 / 12 / 2 018, for Foundation & Plinth.	28 th day compressive strength	215.20	Kg/Cm2	210.00 Kg/cm ²	3.55	Quantity represents 28.00 Cum .
			215.20	Kg/Cm2			
			222.00	Kg/Cm2			
		Average	217.47	Kg/Cm2			
5	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 22 / 12 / 2 018, for Foundation & Plinth.	28 th day compressive strength	215.20	Kg/Cm2	210.00 Kg/cm ²	2.48	Quantity represents 29.00 Cum .
			194.81	Kg/Cm2			
			235.59	Kg/Cm2			
		Average	215.20	Kg/Cm2			

Copy to: 1. The Assistant Engineer , SD I , WD I , WRD, Porvorim - Goa.

2. The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. The Executive Engineer ,WD I ,WRD, Porvorim - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 4943 to 4945, 4949 to 4951,4966,4967,4981/Lab/ **446** / 2018 - 19

Dated: 24 / 01 / 2019 Laboratory : Bicholim -,Goa.
Sub Division V (QC)/WRD/ Bicholim - Goa.

Name of work : Improvement to the existing Nallah from Uttam Salgaonkar house up to the existing pond at Bhattiwaddo and from Brendom Lobo house to Victor De Souza house in Sy. No. 90/19 of Parra village in Calangute Constituency.

Ref. to Requisition no.: - SD -II /WD I / WRD/ F.24 / 2018-19 / 583 dated :- 17 / 12 / 2018.

Qty. Recived. : 09 Sets of cube Date of Receipt: 10 / 01 / 2019. Tested on: - 14/01/19 To 18/01/2019.

Ref to CPWD :2002, Vol. I

Sample: Cube Mix 1 : 2 : 4 O.S No. : 557 to 559,562 to 564,584,585,600 /SS. Lab. Sample No.: 2825 To 2833 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

Cube test is witnessed by Shri. R.T.Shirodkar J.E. SD II / WD I,WRD on 15/01/2019 & Shri. Rui.representative by Agency on 14 & 15/01/2019.

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 17 / 12 / 2 018, for Foundation.	28 th day compressive strength	201.61	Kg/Cm2	210.00 Kg/cm ²	1.76	Three sets of cubes represents 45.00 Cum .
			208.40	Kg/Cm2			
			231.06	Kg/Cm2			
		Average	213.69	Kg/Cm2			
2	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 17 / 12 / 2 018, for Foundation.	28 th day compressive strength	224.26	Kg/Cm2	210.00 Kg/cm ²	2.12	---- do ----
			212.93	Kg/Cm2			
			206.14	Kg/Cm2			
		Average	214.44	Kg/Cm2			
3	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 17 / 12 / 2 018, for Foundation.	28 th day compressive strength	226.53	Kg/Cm2	210.00 Kg/cm ²	3.20	---- do ----
			217.47	Kg/Cm2			
			206.14	Kg/Cm2			
		Average	216.71	Kg/Cm2			
4	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 18 / 12 / 2 018, for 1 st lift of wall	28 th day compressive strength	199.34	Kg/Cm2	210.00 Kg/cm ²	1.04	Three sets of cubes represents 45.00 Cum .
			222.00	Kg/Cm2			
			215.20	Kg/Cm2			
		Average	212.18	Kg/Cm2			
5	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 18 / 12 / 2 018, for 1 st lift of wall	28 th day compressive strength	203.87	Kg/Cm2	210.00 Kg/cm ²	2.84	---- do ----
			219.73	Kg/Cm2			
			224.26	Kg/Cm2			
		Average	215.95	Kg/Cm2			

Junior Engineer

Assistant Engineer

REPORT PAGE 02 OF 02

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 18 / 12 /2 018, for 1 st lift of wall	28 th day compressive strength	226.53	Kg/Cm2	210.00 Kg/cm ²	1.76	Three sets of cubes represents 45.00 Cum .
			215.20	Kg/Cm2			
			199.34	Kg/Cm2			
			Average	213.69			
7	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 20 / 12 /2 018, for 2 nd lift of wall	28 th day compressive strength	217.47	Kg/Cm2	210.00 Kg/cm ²	3.55	Two sets of cubes represents 25.00 Cum .
			206.14	Kg/Cm2			
			228.79	Kg/Cm2			
			Average	217.47			
8	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 20 / 12 /2 018, for 2 nd lift of wall	28 th day compressive strength	201.61	Kg/Cm2	210.00 Kg/cm ²	2.12	---- do ----
			219.73	Kg/Cm2			
			222.00	Kg/Cm2			
			Average	214.44			
9	Plain Cement concrete cube of mix 1 : 2 : 4 , cast on 21 / 12 /2 018, for 3 rd lift of wall	28 th day compressive strength	203.87	Kg/Cm2	210.00 Kg/cm ²	4.27	Quantity represents 10.00 Cum .
			237.85	Kg/Cm2			
			215.20	Kg/Cm2			
			Average	218.98			

Copy to: 1. The Assistant Engineer , SD II, WD I, WRD, Mapusa - Goa.

2. The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. The Executive Engineer ,WD I ,WRD, Porvorim - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 4737,4740,4743/Lab/146/ 2018 - 19

Dated: 08/ 11/ 2018 Laboratory : Bicholim

Sub Division V (QC)/WRD/ Bicholim

Name of Work: - Improvement to Existing spring tank at Shemyeche Advan V.P. Nagzar Varkand in Pernem Taluka.

Ref. to Requisition no.: MI/SDIII/WDI/WRD/ F.20 /2018-19/361 dated :- 13/11/2018.

Qty. Recived. : 03 Sets of cube Date of Receipt: 02/11/2018. Tested on: 02,05,07/11/2018. Ref to CPWD :2002, Vol. I

Sample: Cube 1:2:4 Mix O.S No. : 315,317,323/SS Lab. Sample No.: 2550 to 2552 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

REPORT PAGE 01 OF 01

Witnessed by Shri. Rakesh M/s. Jairaj Construction (agency)on 02/11/2018.

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
1	Cement concrete cube of mix 1:2:4 , cast on 26/10/2018, for Foundation. Represents Quantity 19.00 Cum	7 th day compressive strength	192.55	Kg/Cm2	140 kg/cm2	39.69	Posted for 28 th day test due on 23/11/2018
			203.87	Kg/Cm2			
			190.28	Kg/Cm2			
		Average	195.57	Kg/Cm2			
2	Cement concrete cube of mix 1:2:4 , cast on 29/10/2018, for Foundation. Represents Quantity 21.00 Cum	7 th day compressive strength	210.67	Kg/Cm2	140 kg/cm2	36.99	Posted for 28 th day test due on 26/11/2018
			188.02	Kg/Cm2			
			176.69	Kg/Cm2			
		Average	191.79	Kg/Cm2			
3	Cement concrete cube of mix 1:2:4 , cast on 31/10/2018, for Foundation. Represents Quantity 20.00 Cum	7 th day compressive strength	181.22	Kg/Cm2	140 kg/cm2	32.68	Posted for 28 th day test due on 28/11/2018
			183.49	Kg/Cm2			
			192.55	Kg/Cm2			
		Average	185.75	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

Assistant Engineer

GOVERNMENT OF GOA
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WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 4422,4431,4440,4457,4460,4463/Lab/72/ 2018 - 19 Dated: 04/ 06 / 2018 Laboratory : Bicholim

Sub Division V (QC)/WRD/ Bicholim

Name of Work: - Upgradation of lift irrigation scheme at Dhamacem, V.P. Guleli in Sattari Taluka.

Ref. to Requisition no.: MI/SDII/WDVI/WRD/ F.62 /2018-19/72 dated :- 14/05/2018.

Qty. Recived. : 06 Sets of cube Date of Receipt: 18/05/2018. Tested on: 25,27,29,31/05/2018 & 02,04/06/2018. Ref to CPWD :2002, Vol. I

Sample: 1:3:6 Mix O.S No. : 312,321,331,348/SP & 003,006/SS Lab. Sample No.: 2183 to 2188 Tested By: Mr. S.M Patri ,A.E & Mrs. S.B. Naik Shirodkar. J.E.

REPORT PAGE 01 OF 02

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1:3:6 , cast on 27/04/2018, for Pilers of Half Round Pipes and chambers.	28 th day compressive strength	147.24	Kg/Cm2	100 kg/cm2	49.51	Quantity represents 10.85 Cum
			163.10	Kg/Cm2			
			138.18	Kg/Cm2			
		Average	149.51	Kg/Cm2			
2	Plain Cement concrete cube of mix 1:3:6 , cast on 29/04/2018, for Pilers of Half Round Pipes and chambers.	28 th day compressive strength	181.22	Kg/Cm2	100 kg/cm2	71.40	Quantity represents 9.50 Cum
			147.24	Kg/Cm2			
			185.75	Kg/Cm2			
		Average	171.40	Kg/Cm2			
3	Plain Cement concrete cube of mix 1:3:6 , cast on 01/05/2018, for Pilers of Half Round Pipes and chambers.	28 th day compressive strength	140.45	Kg/Cm2	100 kg/cm2	60.08	Quantity represents 11.50 Cum
			181.22	Kg/Cm2			
			158.57	Kg/Cm2			
		Average	160.08	Kg/Cm2			
4	Plain Cement concrete cube of mix 1:3:6 , cast on 03/05/2018, for Pilers of Half Round Pipes and chambers.	28 th day compressive strength	181.22	Kg/Cm2	100 kg/cm2	72.16	Quantity represents 11.85 Cum
			169.89	Kg/Cm2			
			165.36	Kg/Cm2			
		Average	172.16	Kg/Cm2			

Junior Engineer

Assistant Engineer

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissible	% above or below	REMARK
5	Plain Cement concrete cube of mix 1:3:6 , cast on 05/05/2018, for Pilers of Half Round Pipes and chambers.	28 th day compressive strength	206.14	Kg/Cm2	100 kg/cm2	87.26	Quantity represents 9.80 Cum
			181.22	Kg/Cm2			
			174.43	Kg/Cm2			
		Average	187.26	Kg/Cm2			
6	Plain Cement concrete cube of mix 1:3:6 , cast on 07/05/2018, for Pilers of Half Round Pipes and chambers.	28 th day compressive strength	181.22	Kg/Cm2	100 kg/cm2	83.49	Quantity represents 10.55 Cum
			181.22	Kg/Cm2			
			188.02	Kg/Cm2			
		Average	183.49	Kg/Cm2			

Copy to: 1. The Assistant Engineer , SD II , WD VI, WRD, Valpoi Sattari - Goa.

2. The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. The Executive Engineer ,WDVI ,WRD, Bicholim - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer

**GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/QC/F.6-2/Cube -T :5912 To 5915, 5932,5933,5944,5945,5971,5972,/Lab/ **29** / 2019-20 Dated :- 10 / 04 / 2019 **Laboratory :** Bicholim -Goa.
5985,5986,6008,6009,6018,6019,6031,6032,6058,6059. **Sub Division V (QC)/WRD/ Bicholim -Goa.**

Subject: - Providing entrance arches,illumination, Sigange and Basic Amenities from Visscount School To Pernem Town.

Ref. to Requisition no.: W -103/PC/GTDC/2018-19 / A E -I / **747** dated :- 07 / 03 / 2019.

Qty. Recived. : - 20 Sets of cube **Date of Receipt:-** 08 / 03 / 2019. **Tested on :** - 21/03/2019 To 01/04/2019 as per due dates. **Ref to CPW .:**2002,Vol. I

Sample: C.C. Cubes of mix M-30 RMC **O.S No. :** 1397 To 1400,1416,1417,1424,1425,1446,1447,1461,1462,1484,1485,1496,1497,1506,1507,1529,1530.

Lab. Sample No. 3743 To 3762 **Tested By:** Mrs. S.B. Naik Shirodkar, JE

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	Above % below	REMARK
1	Cement concrete cube mix M-30 RMC cast on 21 /02 / 2019 R.C.C. for Box Culvert Raft .	28 th day compressive strength	353.38	Kg/Cm ²	345 kg/cm2	4.84	Quantity represented by each sample/ set of cube is not mentioned, and also excat location of work done is not specified.
			369.24	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	361.69	Kg/Cm²			
2	Cement concrete cube mix M-30 RMC cast on 21 /02 / 2019 R.C.C. for Box Culvert Raft .	28 th day compressive strength	362.44	Kg/Cm ²	345 kg/cm2	3.30	... Do ...
			355.65	Kg/Cm ²			
			351.12	Kg/Cm ²			
		Average	356.40	Kg/Cm²			
3	Cement concrete cube mix M-30 RMC cast on 22 /02 / 2019 R.C.C. for Box Culvert Raft .	28 th day compressive strength	335.26	Kg/Cm ²	345 kg/cm2	2.21	... Do ...
			360.18	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	352.63	Kg/Cm²			
4	Cement concrete cube mix M-30 RMC cast on 22 /02 / 2019 R.C.C. for Box Culvert Raft .	28 th day compressive strength	366.97	Kg/Cm ²	345 kg/cm2	2.87	... Do ...
			357.91	Kg/Cm ²			
			339.79	Kg/Cm ²			
		Average	354.89	Kg/Cm²			
5	Cement concrete cube mix M-30 RMC cast on 23 /02 / 2019 R.C.C. for Box Culvert Raft .	28 th day compressive strength	344.32	Kg/Cm ²	345 kg/cm2	1.12	... Do ...
			339.79	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	348.85	Kg/Cm²			
6	Cement concrete cube mix M-30 RMC cast on 23 /02 / 2019 R.C.C. for Box Culvert Raft .	28 th day compressive strength	332.99	Kg/Cm ²	345 kg/cm2	3.74	... Do ...
			376.03	Kg/Cm ²			
			364.71	Kg/Cm ²			
		Average	357.91	Kg/Cm²			

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SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	Above % below	REMARK
7	Cement concrete cube mix M-30 RMC cast on 25 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	357.91	Kg/Cm ²	345 kg/cm2	5.93	Quantity represented by each sample/ set of cube is not mentioned, and also excat location of work done is not specified.
			385.09	Kg/Cm ²			
			353.38	Kg/Cm ²			
		Average	365.46	Kg/Cm²			
8	Cement concrete cube mix M-30 RMC cast on 25 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	407.75	Kg/Cm ²	345 kg/cm2	11.62	... Do ...
			385.09	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	385.09	Kg/Cm²			
9	Cement concrete cube mix M-30 RMC cast on 26 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	339.79	Kg/Cm ²	345 kg/cm2	4.40	... Do ...
			412.28	Kg/Cm ²			
			328.46	Kg/Cm ²			
		Average	360.18	Kg/Cm²			
10	Cement concrete cube mix M-30 RMC cast on 26 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	382.83	Kg/Cm ²	345 kg/cm2	5.27	... Do ...
			348.85	Kg/Cm ²			
			357.91	Kg/Cm ²			
		Average	363.20	Kg/Cm²			
11	Cement concrete cube mix M-30 RMC cast on 27 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	353.38	Kg/Cm ²	345 kg/cm2	5.93	... Do ...
			382.83	Kg/Cm ²			
			360.18	Kg/Cm ²			
		Average	365.46	Kg/Cm²			
12	Cement concrete cube mix M-30 RMC cast on 27 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	326.20	Kg/Cm ²	345 kg/cm2	3.09	... Do ...
			362.44	Kg/Cm ²			
			378.30	Kg/Cm ²			
		Average	355.65	Kg/Cm²			
13	Cement concrete cube mix M-30 RMC cast on 28 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	330.73	Kg/Cm ²	345 kg/cm2	3.52	... Do ...
			385.09	Kg/Cm ²			
			355.65	Kg/Cm ²			
		Average	357.16	Kg/Cm²			
14	Cement concrete cube mix M-30 RMC cast on 28 /02 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	362.44	Kg/Cm ²	345 kg/cm2	3.09	... Do ...
			348.85	Kg/Cm ²			
			355.65	Kg/Cm ²			
		Average	355.65	Kg/Cm²			

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	Above % below	REMARK
15	Cement concrete cube mix M-30 RMC cast on 01 /03 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	355.65	Kg/Cm ²	345 kg/cm2	4.18	Quantity represented by each sample/ set of cube is not mentioned, and also excat location of work done is not specified.
			362.44	Kg/Cm ²			
			360.18	Kg/Cm ²			
		Average	359.42	Kg/Cm²			
16	Cement concrete cube mix M-30 RMC cast on 01 /03 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	369.24	Kg/Cm ²	345 kg/cm2	3.52	... Do ...
			362.44	Kg/Cm ²			
			339.79	Kg/Cm ²			
		Average	357.16	Kg/Cm²			
17	Cement concrete cube mix M-30 RMC cast on 02 /03 / 2019 R.C.C. for Box culvert raft.	28 th day compressive strength	362.44	Kg/Cm ²	345 kg/cm2	4.62	... Do ...
			351.12	Kg/Cm ²			
			369.24	Kg/Cm ²			
		Average	360.93	Kg/Cm²			
18	Cement concrete cube mix M-30 RMC cast on 02 /03 / 2019 R.C.C. for Box culvert raft.	28 th day compressive strength	357.91	Kg/Cm ²	345 kg/cm2	4.18	... Do ...
			355.65	Kg/Cm ²			
			364.71	Kg/Cm ²			
		Average	359.42	Kg/Cm²			
19	Cement concrete cube mix M-30 RMC cast on 04 /03 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	353.38	Kg/Cm ²	345 kg/cm2	3.52	... Do ...
			355.65	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	357.16	Kg/Cm²			
20	Cement concrete cube mix M-30 RMC cast on 04 /03 / 2019 R.C.C. for Retaining wall .	28 th day compressive strength	366.97	Kg/Cm ²	345 kg/cm2	5.27	... Do ...
			360.18	Kg/Cm ²			
			362.44	Kg/Cm ²			
		Average	363.20	Kg/Cm²			

Copy to: 1. The Assistant Engineer -I, Project Cell, G.T.D.C, Paryatan Bhavan, Potto Panaji - Goa.

2. QC Lab File. 3. Bill File.

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5	Plain Cement concrete cube of mix 1:2:4 , cast on 11/05/2018, PCC for 1 st (lift)step of wall between ch. 6175 m to 6245 m.	28th day compressive strength	267.30	Kg/Cm ²	210.00 Kg/cm ²	26.21	Quantity represents 32.00 Cum
			271.83	Kg/Cm ²			
			255.97	Kg/Cm ²			
		Average	265.04	Kg/Cm²			
6	Plain Cement concrete cube of mix 1:2:4 , cast on 12/05/2018, PCC for 1 st (lift)step of wall between ch. 6175 m to 6245 m.	28th day compressive strength	226.53	Kg/Cm ²	210.00 Kg/cm ²	3.20	Quantity represents 16.00 Cum
			212.93	Kg/Cm ²			
			210.67	Kg/Cm ²			
		Average	216.71	Kg/Cm²			
7	Plain Cement concrete cube of mix 1:2:4 , cast on 13/05/2018, PCC for 2 nd (lift)step of wall between ch. 6175 m to 6245 m.	28th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	2.48	Quantity represents 32.00 Cum
			203.87	Kg/Cm ²			
			226.53	Kg/Cm ²			
		Average	215.20	Kg/Cm²			
8	Plain Cement concrete cube of mix 1:2:4 , cast on 13/05/2018, PCC for 2 nd (lift)step of wall between ch. 6175 m to 6245 m.	28th day compressive strength	203.87	Kg/Cm ²	210.00 Kg/cm ²	1.04	Quantity represents 32.00 Cum
			208.40	Kg/Cm ²			
			224.26	Kg/Cm ²			
		Average	212.18	Kg/Cm²			
9	Plain Cement concrete cube of mix 1:2:4 , cast on 14/05/2018, PCC for 2 nd (lift)step of wall between ch. 6175 m to 6245 m.	28th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	9.67	Quantity represents 16.00 Cum
			226.53	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	230.30	Kg/Cm²			
10	Plain Cement concrete cube of mix 1:2:4 , cast on 14/05/2018, PCC for 2 nd (lift)step of wall between ch. 6175 m to 6245 m.	28th day compressive strength	215.20	Kg/Cm ²	210.00 Kg/cm ²	9.67	Quantity represents 16.00 Cum
			226.53	Kg/Cm ²			
			249.18	Kg/Cm ²			
		Average	230.30	Kg/Cm²			

Junior Engineer

Assistant Engineer

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 6072 & 6080 /Lab/ **34**/ 2019 - 20

Dated: 11/04/ 2019 Laboratory : Bicholim

Sub Division V (QC)/WRD/ Bicholim

Name of Work: - Improvement to the Existing Jamblachi Tali at Bhandarwada in village Palyem in Mandrem Constituency.

Ref. to Requisition no.: MI/SDIII/WDI/WRD/ F.58 /2018-19/528 dated :- 26/03/2019.

Qty. Recived. : 02 Sets of cube Date of Receipt: 02/04/2019. Tested on: 02 & 03/04/2019. Ref to CPWD :2002, Vol. I

Sample: Cube 1:2:4 Mix O.S No. : 1546 & 1560/SS Lab. Sample No.: 4159 to 4160 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

REPORT PAGE 01 OF 01

Witnessed by Shri. Harichandra R. Nagvekar (agency)on 02/04/2019.

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1:2:4 , cast on 05/03/2019, for Base Foundation of Lake walls.	28 th day compressive strength	246.91	Kg/Cm2	210 kg/cm2	19.74	Quantity represents 15.00 Cum
			271.83	Kg/Cm2			
			235.59	Kg/Cm2			
		Average	251.44	Kg/Cm2			
2	Plain Cement concrete cube of mix 1:2:4 , cast on 06/03/2019, for Base Foundation of Lake walls.	28 th day compressive strength	235.59	Kg/Cm2	210 kg/cm2	16.50	Quantity represents 16.00 Cum
			226.53	Kg/Cm2			
			271.83	Kg/Cm2			
		Average	244.65	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

Assistant Engineer

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD/QC/F.6-2/Cube -T : 6041,6053,6071,6079 & 6096 /Lab/ 39/ 2019 - 20

Dated: 16/04/ 2019 Laboratory : Bicholim

Sub Division V (QC)/WRD/ Bicholim

Name of Work: - Improvement to the Existing nallah from Babi Govekar house at Kaskar waddo in V.P. Soccurro in Porvorim Constituency.

Ref. to Requisition no.: MI/SDII/WDI/WRD/ F.24 /2018-19/843 dated :- 26/03/2019.

Qty. Recived. : 05 Sets of cube Date of Receipt: 30/03/2019. Tested on: 03/03/2019 To 04/04/2019. as per due dates. Ref to CPWD :2002, Vol. I

Sample: Cube 1:2:4 Mix O.S No. : 1516,1524,1545,1559 & 1576/SS Lab. Sample No.: 4090 to 4494 Tested By: Mrs. S.B. Naik Shirodkar. J.E.

REPORT PAGE 01 OF 01

Witnessed by Shri. Harichandra R. Nagvekar (agency)on 02/04/2019.

SR.N O.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Plain Cement concrete cube of mix 1:2:4 , cast on 05/03/2019, for Base Foundation of Lake walls.	28 th day	246.91	Kg/Cm2	210 kg/cm2	19.74	Quantity represents 15.00 Cum
		compressive strength	271.83	Kg/Cm2			
			235.59	Kg/Cm2			
		Average	251.44	Kg/Cm2			