

QUALITY CONTROL DIVISION, LAXMIPOSI

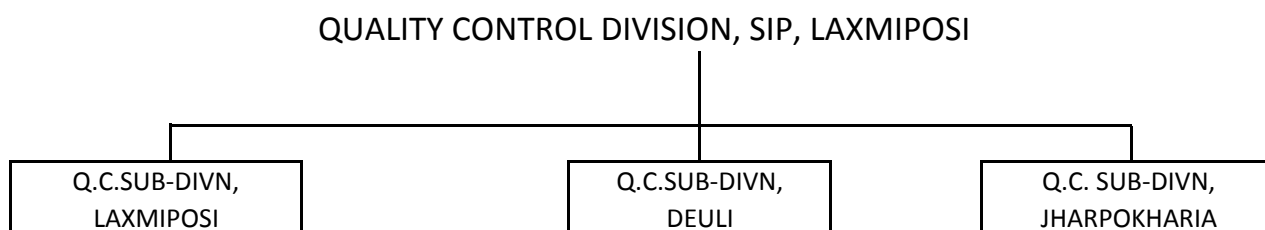
SUBARNAREKHA IRRIGATION PROJECT

ANNUAL REPORT - 2017-18

Chief Research Officer
Quality Control Division
SIP, Laxmiposi

ANNUAL REPORT OF QUALITY CONTRL DIVISION FOR THE YEAR 2017-2018
(SUBARNAREKHA IRRIGATION PROJECT, LAXMIPOSI, MAYURBHANJ)

The quality control division of subarnarekha Irrigation Project was established on dated **09.01.1990** to assure and maintain the quality of different works under this projects. Subsequently some more divisions under Balasore and Mayurbhanj districts were added into the jurisdiction of this quality control division. The head of this office is Chief Research Officer, Quality Control Division, Laxmiposi. Three nos. of sub-divisions headed by Assistant Research Officers were created under this division with head quarters at Laxmiposi, Deuli & Jharpokharia.



The staff position of the division has been attached separately.

One central laboratory at Laxmiposi has been established under this division on **10.4.99**. Following types of tests are being conducted in the laboratory for the ongoing works of this projects and also outside the projects.

<u>For Coarse Aggregates</u>	1	Gradation
	2	Abrasion
	3	Absorption
	4	Flakiness
	5	Elongation
	6	Specific Gravity

<u>For Fine Aggregates</u>	1	Gradation
	2	Silt
	3	Bulkage
	4	Specific Gravity

<u>For Cement</u>	1	Consistency
	2	Initial and Final setting time
	3	Fineness
	4	Compressive strength of cement

<u>For Soil</u>	1	Grain size analysis
	2	Specific Gravity
	3	Liquid limit and Plastic limit
	4	O.M.C and M.D.D.

<u>For Concrete</u>	1	Compressive strength of cubes
	2	Design Mix
	3	Slump

The laboratory is centrally located at Laxmiposi, Baripada. One Senior Technical Assistant , one Technical Assistant , one Embankment one Laboratory Attended Inspector are posted in the laboratory to look after the daily testing works. There are two nos of Embankment Inspectors, one Asst. Embankment Inspector , two Technical Assistants and one laboratory attended supervising the work of five division at field levels. The laboratory is having the following equipments.

<u>List of Machinaries:-</u>	1	Compressive strength Machine (2Nos.)
	2	Casagrade's Apparatus
	3	Vicat apparatus
	4	Traixial Testing Machine (not working)
	5	Abrasion Testing Machine(Loss Angels Apparatus)
	6	Vibrating Table
	7	Pento Meter
	8	Permeability Apparatus
	9	Drying Oven
	10	Standard Proctor apparatus
	11	Core Cutter with Rammer
	12	Pan Balance
	13	Pycnometer

14	Pipette
15	Set of IS sieves for Fine and Coarse aggregates
16	Moulds for concrete and cement cubes
17	Glass Cylinders
18	Mixture Machine (Hand Oprated)
19	Slump Cone
20	Concrete test Hammer(N)
21	Aggregate Impact Tester(N)
22	Dewalt 14" Chap Saw Machine(N)
23	Crushing value Appartus(N)

The various tests of soil, cement, stone, agreegates and concrete are being conducted in the central laboratory as per the requisition from field. Apart from central laboratory tests, we are conducting various tests at field for concrete and earth works. Though we have got minimum technical staffs for field and laboratory works we are carring on the quality aspects with strong determination and constant efforts. We are maintaing various records like OK books, gradation register, cube register, compaction density forms, etc. at all work sites for the betterment of the quality as per quality control mannual.The details of tests conducted in the central laboratory for 2017-18 has been attached seperately.

The Quality Control, Monitoring & Assurance works are carried out in accordance with the guidelines contained in the codes and publications of the B.I.S.(Appended) on different subjects read with relevant provisions of any technical manual issued by the department from time to time on the subject of standards and quality of different items of work.

Detail of SQMC visits various divisions of SIP during 2017 - 2018

Date	Name of SQMC	Divisions visited
16.03.17	P.K.Acharya	Betnoti Canal Division, Laxmiposi
11.04.17	C.R.Parija	Baisinga Canal Division, Laxmiposi
11.04.17	T.B.Das	S.I.Division No.I, Jharpokharia
17.04.17	T.B.Das	S.I.Division No.II, Deuli
19.04.17	T.B.Das	J.C.Division No.II, Morada
06.12.17	H.N.DAS	J.C.Division No.II, Morada
07.12.17	H.N.DAS	Baisinga Canal Division, Laxmiposi
13.12.17	H.N.DAS	S.I.Division No.I, Jharpokharia
12.02.18	P.K.Acharya	Betnoti Canal Division, Laxmiposi

Field Activities

Field laboratories have been set up at different work sites by the agencies. There are also equipments in sub-division and division levels for different nature of field test. are conducted by the concerned J.E./A.E./A.E.E. in the presence of Quality Control staff.

Deficiency

We have very acute shortage of field and laboratory technical staff such as :- Lab attendant/A.E.I./E.I./T.A. to assure the quality control aspects. Since numbers of works are going on Simultaneously in a wide spread area, it's very difficult to cover all the works properly regarding quality aspects. Procurement of advanced equipments with posting of trained technical staff is very essential to cope with the project activities.

STAFF POSITION OF QUALITY CONTRL DIVISION ,LAXMIPOSI

Sl.No.	Employee Category	Sanctioned Post	Existing Post	Vacant Post
1	CRO in the rank of EE (C)	1	1	0
2	ARO in the rank of AEE (C)	3	3	0
3	AE (C)	1	1	0
4	JRO in the rank of JE (C)	1	1	0
5	STA	1	1	0
6	TA	3	2	1
7	Head Clerk	1	0	1
8	Sr. Clerk	1	1	0
9	Jr. Clerk	2	1	1
10	Jr. Stenographer	1	1	0
11	EI	3	2	1
12	AEI	2	0	2
13	Lab Assistant	1	0	1
14	Lab Attendant	2	2	0
15	Dark Room Assistant	1	0	1
16	Daftary	1	0	1
17	Peon	7	3	4
18	NWM cum Sweeper	1	1	0
19	CK	12	12	0

20 CK wages

4

4

0

QUALITY CONTROL DIVISION , SIP, LAXMIPOSI

MONTHLY PROGRESS REPORT FOR THE PERIOD FROM 04/2017 to 03/2018

Sl.No.	Types of Test.	Apr./2017	May./2017	Jun./2017	Jul./2017	Agu./2017	Sep./2017	Oct./2017	Nov./2017	Dec./2017	Jan./2018	Feb./2018	Mar./2018	Total.
1	Soil Test.													
a)	L.L.	17	11	2			2	6	4	17	3	34	20	116
b)	P.L.	17	11	2			2	6	4	17	3	34	20	116
c)	Proctor Compacti on.	17	11	2			2	6	4	17	3	34	20	116
d)	Triaxial shear.								
e)	Classificat ion	17	11	2			2	6	4	17	3	30	20	112
f)	Specific Gravity.													
g)	Grain size Analysis.													
2	Coarse Aggregate.													
a)	Gradation.	10	4		2		2	4	4	5	2	7	7	47
b)	Flakiness.	4	1				1			2	1	2		6
c)	Elongatio n.	4	1				1			2	1	2		6
d)	Specific Gravity.	5	2				1	1	1	2	1	2	1	16
e)	Abrasion Value.	2	1											3
3	Fine Aggregate.													
a)	Gradation	5	7		3			2	1	3	2	5	6	21
b)	F.M.	5	7		3			2	1	3	2	5	6	21
c)	Bulkage.							..						
d)	Silt conten	5	7		3			2	1	3	2	5	6	21
4	Cement.													
a)	Consistenc	5	4	4	1			2	2	4	1	3	5	31
b)	Fineness.	5	4	4	1			2	2	4	1	3	5	31
c)	Setting Time.	5	4	4	1			2	2	4	1	3	5	31
d)	Casting of Mortar Cubes.	45	36	36	9			18	18					162
5	Concrete Cube Test.													
a)	Compress ive Strength.	113	156	30	70	85	29	56	81	72	123	159	130	1104
6	Design Mix.													
a)	M10	1								3	1	4	4	13
b)	M15(A40 +A20)	3+3	8+3		1+1			1+1	1+1	8+6	2+3	9+9	6+5	71
c)	M20	3	7					1		3	1	9	6	30
d)	M25	1						1		1	2	1	7	13
e)	M30													0
Grand Total =														2253