



GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES

ANNUAL REPORT
OF
LEFT CANAL DIVISION NO III
DUBURI

Executive Engineer
Left Canal Division No III
Duburi

PREFACE

This Division has been assigned execution of :

(i) Construction of left bank canal from RD 71.313km to RD74.500km including all structures (Excluding the reach from RD 72.373km to73.573km with Damsala aqueduct at RD72.973km) other than HR and CR of RIP, Phase - II under **Package No -29(A)**

(ii) Construction of Aqueduct at RD72.973km of Left Bank Canal over Damsala Nallah of RIP, Phase - II under **Package No -29(B)**

(iii) Construction of L.B.C from RD 79.500km to 84.500km with all structures other than H.R & C.R of RIP, Phase-II under **Package No 31.**

The achievement of execution of above mentioned work during financial year 2015-16 has been briefly detailed as follows.

1. **Package No-29(A)**

The work has been awarded to M/S Sri Durga Condev Pvt. Ltd, 'Super' Class Contractor vide agreement No 10F₂/2012 -13 for an agreement amount of `1804.06 lakhs with stipulated date of commencement & completion as 01.02.2013 & 31.01.2016 respectively. The E.O.T has been granted up to 31st March' 2016. The expenditure for the above work has been incurred to an amount of `1283.70 lakhs by end of 31st March' 2015 & `599.24lakhs has been incurred against target of ` 550.00 lakhs during the financial year 2015-16 including escalation payment. The work has been completed in all respect by 31st March 2016.

This package involved construction of 02 nos of CD (RD 72.150km & RD73.615km/73.645km), 02 nos VRB (RD 72.697km & RD 73.920km) including excavation of main canal for length of 1987meter i.e. from RD 71.313km to 72.373km & RD 73.573km to 74.500km. By the end of financial year 2014-15 the construction of C.D. at RD 72.150km and VRB at RD72.697km of LBC had been taken up and completed and excavation of canal for a length of about 1700meter had been completed. During financial year 2015-16 the construction of C.D. at RD 73.615km and VRB at RD73.920km of LBC have been taken up and completed in all respect and also the ancillary finishing work of CD at RD72.150km and VRB at RD72.697km and excavation of canal for the length of about 287meter have been completed under direct supervision of Sri Trinath Parida, AEE, Sri B.S Mishra, A.E., Sri Pitabas Majhi, J.E. Sri Saubhagya Kumar Pattanaik, AEI and Sri Bimal Ch. Pal ARO have been closely associated with execution & conducted different specified quality control tests as per approved drawing design and specification. Sri T.S. Dhal, Engineer-in-Charge and Sri S.K. Mandal, C.R.O., Quality Control Division, Sukinda has supervised the work regularly by imparting technical guidance. Er. K.P. Mishra, S.E., Er.G.R.Mohanty, PD-cum-CE&BM, BLB, Sukinda have inspected the site at regular intervals to ensure progress and quality of the work. State Quality Monitor Er. S.N. Ghosal has been inspected the work on Dt.05.11.2015 and conducted different field tests & found work satisfactory.

During the financial year 2015-16, 5319.371cum of concrete against target of 5340.00cum, earthwork 136630.663cum against target of 150500.00cum and 1695.310cum of R.S dry packing against target of 1750cum have been executed successfully. During the course of execution 4nos of cement test, 10 nos of sieve analysis of course aggregate, 10nos of sieve analysis of fine aggregates, 249 nos (83 set) of cube test and slump test have been conducted by the quality control staff of the project and

result found satisfactory. The photographs of the structures at different stages of execution have been annexed herewith.

2. Package No-29(B)

The work has been awarded to M/S G.V.V construction Pvt. Ltd, 'Super' Class Contractor vide agreement No 11F₂/2012 -13 for an agreement amount of `5667.74 lakhs with stipulated date of commencement & completion as 14.02.2013 & 13.02.2016 respectively. The E.O.T has been granted up to 30th June' 2016. The expenditure for the above work has been incurred to an amount of `3221.04 lakhs by end of 31st March' 2015 & `2511.81lakhs has been incurred against target of `2452.00 lakhs during the financial year 2015-16 including escalation payment. The work has been completed in all respect by 30th June' 2016.

This package involved construction of one no aqueduct of length 157.20 meter including excavation of main canal for length of 1022meter & lining to the both approaches of the aqueduct for a length of 980 meter. Consequent upon excavation of foundation of raft No 1 & 2 during 1st week of November'2013 slushy soil (Kaolin in nature) having very poor bearing capacity was encountered. In order to overcome the situation a high level Technical committee headed by E.I.C. (P&D), C.E. (Designs), C.E. (P.P.F), M.D., OCC Ltd. and C.E. & B.M., BLB, Samal had inspected the site on 03.01.2014 and suggested to keep 2meter RCC cut-off all around the raft, 1.50 meter sand filling and 0.25meter lean concrete over the sand layer to increase the SBC of the soil below the foundation. Accordingly the design & drawing of the structure had been modified on 09.04.2014 & the work was carried out. By end of financial year 2014-15 the construction of all the 5nos rafts accommodating 10nos piers & abutments had been completed & construction of 4nos piers had been casted up to pier cap level and also excavation of main canal for length of 945meter had been completed. During the financial year 2015-16, 10nos of **trough slabs** as well as **11nos of deck slabs** including **Energy Dissipation System, bank connection, R.C.C./C.C. lining to U/S & D/S reaches of aqueduct, RSD packing in the river side adjacent to the structure** have been executed. The ancillaries works i.e. casting of parapets, wearing coats over the trough slabs & deck slabs etc. have been completed. The above works have been executed under direct supervision of Sri Gnyana Ranjan Naik, AEE, Sri Laxmi Narayan Pradhan, AE, Sri Arun Kumar Majhi, AE, Sri Nihar Ranjan Routray, JE, Sri Prasant Kumar Mallick, JE. Sri Saubhagya Kumar Pattanaik, AEI and Sri Bimal Ch. Pal ARO have been closely associated with the execution and conducted different quality control tests as per specification so as to ensure quality aspects. Er. T.S. Dhal, Engineer- in- Charge

and Er. S.K. Mandal, C.R.O., Quality Control Division, Sukinda have supervised the work regularly by imparting technical guidances and Er. K.P. Mishra, S.E., Er.G.R.Mohanty, PD-cum-CE&BM, BLB, Sukinda have inspected the site at regular intervals to ensure qualitative progress. State Quality Monitor, Er. S.N. Ghosal has inspected the work on Dt.05.11.2015 and conducted different field test and found satisfactory. The Director, State Quality Control & Research had audited the Quality control records in the Division office on dtd.03.12.2015 and conducted different quality control tests during his site visit on dtd.10.03.2016 and found satisfactory. The EIC (P&D) has inspected the work site on dt.24.11.2015 and instructed to complete the work within the stipulated time strictly adhering to the quality control guidelines & design specifications.

During the financial year 2015-16, 89895.082cum of earthwork against a target of 90000.000cum, 21113.523cum of Concrete against a target of 21000.000cum, and 16134.321cum of R.S Dry packing against target of 16000.000um have been executed successfully. During the course of execution 1no Design Mix, 12nos of cement test, 31 nos of sieve analysis of course aggregate, 31nos of sieve analysis of fine aggregates, 1737 nos (579 sets) of cube test have also been conducted by the quality control staff of the project and the results found satisfactory. The photographs of the structure at different stages of execution have been annexed.

3. Package No-31

The work has been awarded to M/S Sri Durga Condev Pvt. Ltd, 'Super' Class Contractor vide agreement No LCB-27F₂/2012-13 for an agreement amount of `3109.72 lakhs with stipulated date of commencement & completion as 08.02.2013 & 07.02.2016 respectively. The E.O.T has been granted up to 30th June' 2016& the agency has applied EOT up to 30th September'2016. The expenditure for the above work has been incurred to an amount of `1968.42 lakhs by end of 31st March' 2015 & `1157.07lakhs has been incurred against target of `1118.00 lakhs during the financial year 2015-16 including escalation payment. The work is stipulated to be completed in all respect by 30thSeptember' 2016.

This package involved construction of 5 nos CDs (RD80.623km, 81.844km, 82.770km, 83.550km, 84.100km of LBC) & four nos VRBs (RD 80.022km, 80.267km,81.500,& 83.266km) of LBC. By the end of financial year 2014-15, the construction of VRB at RD 80.022km, CD at RD 80.623km and VRB at RD 83.266km, CD at RD 84.100km had been completed in all respect and canal excavation for a length of 3.50km had been completed in different patches. During financial year 2015-16, the construction of ODR Bridge at RD

80.267km, VRB cum canal crossing at RD 81.500km and CD at RD 83.550km of LBC have been taken up and completed in all respect and balance canal excavation of about 1.50km have been completed. The above work have been executed under direct supervision of Sri Naba Kishore Sahu, AEE (C), Sri D. Sahu, A.E., Sri Trinath Sethi, A.E. . Sri Pulasti Biswal, EI & Sri Debendra Nath Das, ARO have conducted timely supervision along with different specified quality control tests to achieve qualitative work as per approved drawing, design and specification. Sri T.S. Dhal, Engineer-in-Charge and Sri S.K. Mandal, C.R.O., Quality Control Division, Sukinda have supervised the work regularly by imparting technical guidance. Er K.P. Mishra, S.E. & E.R. Sri Gyana Ranjan Mohanty, P.D.-cum-C.E. & BM, B.L.B Sukinda have inspected the site at regular intervals to ensure qualitative progress. State Quality Monitor, Er. P.K. Ghosal has inspected the work on dated 05.11.2015 and conducted different field tests which found satisfactory.

During the financial year 2015-16, 11,149.00 cum of concrete against target of 11,500cum, earthwork 2,55,370.00cum against target of 2,60,000.00cum and 500.00cum of R.S dry packing against target of 2400.00cum have been executed successfully. During the course of execution 6nos of cement test, 19nos of sieve analysis of course aggregate, 17nos test for fine aggregates, 379 set of cube test have been conducted by the quality control staff of the project and the result found satisfactory. The photographs of the structures & canal at different stages of execution have been annexed.

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