



GOVERNMENT OF JAMMU & KASHMIR

Chief Minister's Monitoring Cell

"Rajpora Lift Irrigation Scheme, Tral, Pulwama" (Physical Verification Report)



By Joint Director,
CM's Monitoring Cell.

PHYSICAL VERIFICATION REPORT

Name of the Project:	Rajpora Lift irrigation Scheme, Tral, Pulwama
Source of Funding	State Plan/AIBP
Executing Agency	Irrigation Division, Tral and Mechanical Irrigation Construction Division, Srinagar
Year of start of Work	1979-80
Target CCA	1620 Hectares
Target date of completion	March, 2010
Expected date of completion	March, 2013

Out of the total cultivable area of 8.56 lac hectares of land in district Pulwama, the irrigation facilities are extending only to 4.76 lac hectares (56%) thereby leaving a huge chunk of land without irrigation facilities. A sizeable chunk of land lies in the alluvial tracts of Tral, Rajpora and Medura villages of the district. The area being quite fertile with clay soil texture having no gravity source of irrigation and, therefore, the only obvious source of irrigation for these tracts of land could be the lift irrigation facility. It was only in this context that the government had decided to take up the construction of Rajpora Lift Irrigation Scheme. The scheme was envisaged in the year 1978-79 for providing irrigation facilities to dry belt of Tral/Awantipora and its adjoining areas with a total cultivable command area of 1620 hectares falling in the villages of Rajpora, Medura, Nanar, Takiya-Payeen-Bala, Kharpora, Lalgam, Aaligund, Chandrigam, Baligund, Noorpora, Chek, Kanjinagh, Bohu Awantipora, Gorikadal, Peernar-Bala, Peernar- Payeen etc.

Financial status:

	(in crore)
Original Cost	2.13
1 st cost revision (1990)	12.10
2 nd cost revision (1999)	31.63
3 rd cost revision (2009)	70.20
Funds released (ending Dec, 2012)	66.44
Cumulative expenditure (ending Dec, 2012)	64.83
Balance funds required	3.76

The cost revisions are mainly attributed by the agency to following:-

- ✚ Escalation in the cost of electro- mechanical components of the scheme which was originally envisaged at 887.63 lacs which now costs 2605.46 lacs as per the latest cost revision of 2009.
- ✚ Suspension of work of the scheme for 7 years (1993-2000) due to non-availability of funds and unrest in certain parts of the valley.
- ✚ Escalation in the cost of construction material and land compensation.
- ✚ Laying of 1350mm M. S. Pipe Conduit for a length of 1620 mtrs instead of construction of open channel from stage 1st (Larkipora) to stage 2nd (Bahu).
- ✚ Increase in the length of Rising Mains from Stage 2nd to delivery tanks.

Physical Status of Works:

The physical progress of the project is briefly detailed as under:-

<i>Item of work</i>	<i>Targets</i>	<i>Achievements</i>	<i>Progress</i>
Pump Houses	2 No	Completed	100%
Delivery Tanks	2 No	Completed	100%
Canals	Medura canal (6.75 Km) Rajpora canal (7.50 Km)	Completed 2.75 Kms	100% 37%
<u>Laying of Rising Main (Pipes)</u>			
From Stage 1 st upto Stage 2 nd (1350 mm dia 1 No.)	1620 mtr	Completed	100%
From Stage 2 nd to delivery tanks			
(Medura) 1000 mm dia 1 No.	630 mtr	Completed	100%
(Rajpora) 1250 mm dia 1 No.	230 mtr	Completed	100%
Structures (culverts, foot crossings etc)	35 Nos	31 Nos	88%
Buildings (including office infrastructure)	6 Nos	Completed	100%

The overall physical progress is around 75%.

General Observations:

The scheme has been conceived for providing irrigation facility to the dry belt of Tral and its adjoining areas with a CCA of 1620 hectares which stands also cleared by the Indus Water Treaty Commission. It has been put to execution in the year 1979 after its approval by the Planning Commission, Gol at a cost of 2.13 crore. But due to inadequate funding and other reasons the completion of scheme had got substantially delayed resulting in three cost revisions. The scheme was originally funded under State Sector upto March, 2000 with an expenditure of 3.55 crore. The scheme is now under execution under Central Assistance (AIBP) from the year 2000-01 at a revised cost of 70.20 crore with a Matching State Share. Against the total releases of 66.44 crore (52.69 crore Central Assistance and 13.75 crore State Share), the expenditure incurred ending December, 2012 is of the order of 64.83 crore (92 %) with physical progress achieved to the extent of 75%.

The project envisages construction of two open lined irrigation canals namely Medura and Rajpora Canal. It also envisages installation of mechanical components and execution of civil works with acquisition of land at various places. The component wise breakup is as under:-

	in lacs
Particulars	Cost
Civil component	3900.29
Land compensation	514.32
Electro-Mechanical component	2605.46
Total	7020.07

The mechanical works by way of laying of Rising Mains of different dias from Stage 1st Pump House at Larkipora to Stage 2nd Pump House at Bahu Awantipora along with installation of requisite machinery stands completed. The electrical sub stations of the capacity of 1 x 1.6 MVA and 2 x 6.3 MVA at the pump houses have also been created. The main equipments installed at the two pump house stations is detailed as under:-

1st stage Pump House at Larkipora

equipment	Unit
Pumps (275 HP)	4 No
Motors (205 KW)	4 No
Starter (205 KW)	1 No
Control panel (1600 AMP)	6 No
Capacitor bank (275 HP)	4 No
Rising main (1620 mtr)	1 No

2nd stage Pump House at Bahu Awantipora

Pumps (740 HP)	4 No
Pumps (1340 HP)	4 No
Motors (550 KW)	4 No
Motors (1000 KW)	4 No
Starter (550 KW)	1 No
Starter (1000 KW)	1 No
Control panel (800 AMP)	12 No
Capacitor bank (275 HP)	8 No
Rising main (230 mtr)	1 No
Rising main (630 mtr)	1 No

It is evident from the above tables that more and much powerful machinery has been installed at stage 2nd pump house than stage 1st pump house. This is because of this reason that initially the water is lifted from the source through stage 1st and supplied to stage 2nd for a length of 1620 mtrs through pipe conduit which track is quite flat and even. There is no utility of water in between stage 1st and stage 2nd. Contrary to this the function of the stage 2nd pump house is to push the water into two delivery tanks which are located at steep hike through two different rising main pipe conduits.

The scheme has been designed for lifting 120 cusecs of water from the source i.e. river Jhelum. The civil works by way of construction of two delivery tanks one each for Medura Canal and Rajpora Canal have also been completed. The target of construction of open lined canal of Medura branch for a length of 6.5 Kms has been achieved in full and this canal branch stands commissioned in July, 2009. The canal construction works include cunnetisation at certain reaches, providing/laying of stone pitching with cement concrete grouting and lining etc. The villagers have been reaping benefits through this canal branch by getting irrigation for the un-irrigated areas.

Against the target of lifting of 120 cusecs of water from Jhelum, 54 cusecs of water is lifted and supplied through this canal branch for irrigation purposes. From main canal water is distributed through minors for which outlets have been developed under command area development programme. Prior to this facility these areas with Karewa type of land were considered as dry areas and reportedly would depend on rains for crop production. The areas are abundant with fruit bearing trees like almond, apple and walnut etc. The crop production was, as such, very low and with providing of the irrigation facility through one of the canal branch; the production has increased which has also helped in ameliorating the economic condition of the villagers. The framers are also using this irrigation facility not only for growing fruit crops but also for oil seeds, cereals, vegetables and particularly paddy. Medura canal has been constructed all along the hill on the higher contour where as Rajpora branch which is still under construction is comparatively on the lower contour.

The execution of the scheme involves cement concreting works by way of construction of office buildings, pump houses, culverts, tractor crossings etc and under the circumstances the agency should have carried out the cement concreting tests but the officials could not produce the concreting test reports. It is presumed that cement concrete tests had never been undertaken while doing the concreting works.

The pace of the work was found sluggish on the day of inspection and it was reported by the Xen that the slow pace is due to chilly weather conditions. He further informed that the work shall get accelerated in the month of February and onwards only when the weather becomes conducive for carrying out civil works. The funds to the extent of 1.16 crore are still available with the agency and in the given circumstances it should not hesitate in speeding up the pace of work.

The fair-weather roads have also been developed all along the canal length on the land acquired for the purpose. Medura canal which is

operational for the last more than three years has been providing irrigation to 729 hectares of land during Kharief season and it also does provide irrigation during Rabbi Season. But this canal which has been constructed four years back has suffered damage at various spots and lot of silt was found accumulated in it on the walls and bottom.

For closure of the whole project, 25% of work is still unexecuted which forms the part of Rajpora Canal. Sofar as civil works pertaining to this canal branch is concerned, the work has been executed for a length of 2.75 Kms (37%) against the target length of 7.50 Km which also involves execution of certain allied works in the shape of foot crossings, culverts etc. The work on the balance portion of 4.75 Km length was seen going on at few spots for which the workers in limited number were also seen working at the project site. The civil works of Rajpora canal also includes construction of a RCC flume at RD 3893 for a length of 40 mtrs (131.20 feet). This is one of the vital structure being executed to cover a deep gorge/nallah for providing further connectivity to the canal.

The project also envisages acquisition of 374 kanals of land for the whole project, against which 89 kanals is state land and the remaining 285 kanals is mostly proprietary land. Out of the 285 kanals which had to be acquired against compensation, the payment has been disbursed to the land owners for acquisition of 240 kanals and the remaining 45 kanals of land is in the process of acquisition for which the funds stand also made available to the Collector Land Acquisition, Irrigation & Flood Control Department, Srinagar for expediting the needful.

There is a provision of 30.00 lacs for project maintenance and 7.06 lacs for plantation on the canal networks. It was explained by Xen concerned that the provision under these components has not been utilised until now. The matter of the fact is that the agency should have utilised the funds under these two components. The plantation on the Madura canal network should have been done as it has been commissioned four years back. It should have also utilised the maintenance part to repair and renovate the spots which had suffered damage on the said canal as these are vulnerable to further damages due to erosions and other factors.

The overall quality of the works executed is satisfactory.

Problem areas

- (i). Compensation of land and fruit bearing trees as assessed by the competent authority has been paid to its owners. But there are some walnut trees which are still existing and coming in the alignment of the canal road and canal. These walnut trees have

not been removed/axed even after the payment of compensation. The executing agency has taken up this issue with the district administration and until now nothing substantial has been done in this regard. The existence of these trees is an impediment in transportation of the construction material which ultimately is causing delay in execution of works.

- (ii). One namely Shri Rasool Shah S/o Lassi Shah R/o Rajpora Uller is not allowing the executing agency to execute the work on Rajpora canal from RD 3655Mtrs to 3767Mtrs. The said person is claiming that he has not been paid compensation for the land coming in the alignment of the canal. But, it was reported by the officials that the compensation has been paid to the land owner and the hindrances created by him are quite unwarranted. The issue has also been taken up with the district administration by the agency but without any results sofar.
- (iii). It was reported by the agency that at certain stretches of Rajpora canal the work could not be executed even after its proper work allotments because of backing out of the allottee agencies for not doing the works. Though the executing agency has retendered such works but ultimately the retendering process consumes lot of time which results in delays.
- (iv). Some of the land owners have failed to submit the updated revenue papers which have resulted in delay in acquisition of land and paying compensation thereof. The land which has to be acquired by the agency for pushing up the work on the project has since been notified and PNCs also held at district level for fixation of the rates as land compensation.

Suggestions:

- I. The Administrative Department should take up with the Gol for release of the balance funds under AIBP as CS during the current financial year, if not already released until now. The State Govt should also consider releasing of balance Matching State Share during the current fiscal for closure of the project.
- II. The Collector Land Acquisition, Irrigation & Flood Control Department should expedite the process of completion of land acquisition cases and disbursement of compensation thereof.
- III. The district administration should look into the matter of cutting down of wall nut trees coming in the alignment of canal road and canal. It should also take stricter action by way of blacklisting the contractors who are backing out of the allotted contracts.
- IV. The executing agency should accelerate the pace of work as the weather conditions are expected to become much favourable for execution of civil works in the coming days.

- V. The district administration should provide police assistance to the executing agency for taking up the work on RD 3655Mtrs to 3767Mtrs of Rajpora canal which is hindered by one namely Shri Rasool Shah S/o Lassi Shah R/o Rajpora Uller who has been paid compensation for this stretch of land.
- VI. The executing agency should in future do the cement concreting tests wherever concreting work is done at the appropriate lab. It should also repair the spots where damages occur and also de-silt the Medura canal out of the funds meant in the scheme for maintenance. It should also undertake the plantation work on the canal network where works have been executed for which provision under the scheme is also available.

Physical Verification Conducted by	Shri Altaf Ahmad Zargar, Joint Director Planning, Monitoring Cell, Chief Minister's Secretariat.
Officers of Executing Agency who accompanied the inspecting officer	Executive Engineers, Mechanical & Civil of concerned Divisions I/c AEE, Civil Irrigation Division, Rajpora JEs, Mechanical and Civil
Date of conduct of physical verification	14-01-2013



Stage 1st Pump House at Larkipora



Damages occurred and silt/ garbage accumulated in the Medura canal



Rajpora canal RCC flume under construction



View of stage 2nd pump house and two rising main pipe conduits laid on the hill



Work in progress (Rajpora canal)



Walnut trees coming in the alignment of the canal road