

Catchment Area Treatment, Baglihar Batote

INTRODUCTION.

Baglihar Hydro Electric Project (BHEP) is one of the prestigious projects under construction on River Chenab in Jammu and Kashmir State .Chenab valley, because of its mountainous terrain and degraded forests, is subject to various types of soil erosion. The catchment area of BHEP comprises five Sub-Catchments covering an area of about **1,98,366 Hectares**. The area of operation is spread over all the five Sub- Catchments Viz; Batote, Raggi, Niru (part) Kontwara (part) and Dessa..The area under operation has fragile rock formation, deprived of vegetal cover and is subjected to heavy to very heavy soil erosion. The dam near Baglihar is likely to be silted up due to sediments/debris coming down from upper catchment in a very short period .In order to safe guard life span and storage capacity of the dam it is essential to restrict the flow of sediments in the reservoir. State Government assigned the job of formulation of catchment area treatment plan to the Department of Soil Conservation. A comprehensive scheme was formulated for **Rs.1703.20** lac to cover an area of **11403 hectares** under Phase-I, out of **31,403** hectare treatable area. This was to be completed within a period of 5 years with 2004-05 as its base year. The Project report was submitted, which came under the discussions in the 39th B.O.D meeting of J&K Power Development Corporation for its approval.

The project report was approved for **Rs.1596.20 Lac** only against **Rs.1703.20 Lac**, deleting **Rs.107.00 Lac** as salaries of the executing staff to be borne by the Department of Soil Conservation from its own budgetary provision under salary head.

Implementation of phase-Ist works programme of Catchment Area Treatment, BHEP was earlier proposed to begin w.e.f. April 2004, and to be completed within a span of five years by the end of March 2009, funded by **J&K POWER DEVELOPMENT CORPORATION**. Envisaging the quantum and the importance of work the Department of Soil Conservation (Forest) started its preparatory activities two months earlier i.e. February, 2004. Out of the total cost

of the project for Phase Ist of **Rs.1596.20 Lac**, an amount of Rs. **656.777 Lac** stands incurred expenditure out of the total releases made by Power Development Corporation there by leaving balance of Rs.**939.423 Lac** as left out programme by end of March,2009.

The scheme could not be completed in the stipulated time frame, with the result the extension period for continuation of the project has become necessary which needs to be taken up in the high level state committee already constituted by the government and also the works programme which will remain unspent by end of March,2010 needs to be phased a fresh and got approved from the state level Technical committee for next three years w.e.f. April,2010.

The main objectives of the Catchment Area Treatment (CAT) are:-

1. To prevent the siltation of reservoir, through catchment area development falling above SSoN either side of reservoir.
2. To ensure increased operational life of dam, with minimum possible siltation in the reservoir through integrated watershed development approach.
3. *To develop the natural resource base with application of proven technology modified to suit the local environment for higher production on sustainable basis.*
4. *To check and retard resource deterioration and accelerate the process of restoration of ecological balance of this tract so as to increase the life span of the reservoir and the dam.*
5. *To check the imbalance in the use of natural resources through scientific development with optimum utilization ensuring higher production on sustainable basis.*
6. *To improve the production capacity of natural and biotic resources through introduction of suitable, easily adoptable and affordable package of technology.*

7. To improve the living standard of population through increased production of fuel, fodder, agricultural and horticultural products besides animal products for local consumption leaving enough marketable surplus.
8. To generate cash flow and employment opportunities for local population.
9. To generate desired awareness among local population for adoption of suitable technology, management of natural and biotic resources and restoration of ecological balance of the area.
10. To create awareness for maintenance of resources generated through scientific manipulations for higher returns on sustainable basis.

**Total Physical and financial Achievement of CAT, Project, BHEP, Batote
(02/2004 to 03/2009)**

S. No.	Component/ Sub- head	Unit	Cumulative Achievements (02/2004 to 03/2009)	
			PHY	FIN
A	MODEL- A			
1	Fencing	Ha/ Rft	236987	66.779
2	Afforestation/ Dibbling	No	1340850	106.97176
3	DRSM Check Dams	Cum	19042	46.701
4	Stepping with crate gabion structures	No/ Cum	28710	190.279
5	Diversion/ Catch water drains	M ³	23852	20.96
6	Inspection path	Km	23.50	2.248
7	Tin shelter sheds	No	10	0.40
8	Maintt. of closures/ Watch and ward/ Repairs to damaged assets	L.S	333	16.641
9	Laying of G. Nets	Sqm	3412	3.03
10	Walling DRSM Check walls	Cum	12274	29.814
11	Pasture development	Ha	209.50	13.334
12	Crib Structures	Cum	2487	13.475
13	Stepping with stone embankments	Cum	3823	9.00
14	Natural grass land development	Ha	240	6.72
15	Brush wood check dams	Rmt	17014	26.034
16	Terrace development	Ha	1	0.33
17	Earthen bag embankment structures	Nos	148350	9.767
18	Stepping with grass shrubs	Ha	201.20	20.47
19	Earthen contour bunds	Ha	63	6.955
20	Vegetative field spurs.	Rmt	288	0.70
21	Nursery development	Ha	11.95	18.4648
22	Silivi pasture Development	Ha	112.50	20.22244
23	Watling/ Live brush wood	Rmt	902	2.60
24	Water harvesting structures/ spring	Nos	9	2.50
25	Dug out ponds	Nos	11	0.44

26	Income generation units	Nos	12	1.20
27	Maintenance of old closures	Ha	16	0.80
	Sub. Total=		-	636.836
B	Machinery/ Equipment.	L.S	-	6.993
	Miscll. Unforeseen and carriage etc.		-	12.613
	Sub. Total		-	19.606
	Grand Total A+B=		-	656.777

*Photographs of Before / After execution of Soil Conservation works
(CAT Baglihar, Batote)*

Location = Sakwan, Year = 2007-08, Status = Before/After



Location = Sakwan Year = 2007- 08 Status = Before/After.



Location = Bapa Pull IInd. Year = 2006-07 Status = Before/After



Location = Monthly Year = 2006-07 Status = Before/After.



Location = Lower (Dalhal Sakwan) Year = 2007-08 Status = Before/After.



Location = Mandir (Upper Dalhal).Year = 2007-08 Status = During & After Execution.



Location = Thanoth Deesa Year = 2006-07 Status = Before/After



Location = Kurmail Batote, Year = 2006-07 Status = Before/After

