

## PHYSICAL VERIFICATION REPORT

(Conducted by Dy. Director, Planning on 05<sup>th</sup> & 06<sup>th</sup> September, 2011)

1. Name of Project : Rural Electrification Programme under RGGVY in District Kargil
2. Funding Agency : Government of India.
3. Implementing Agency: NHPC
4. Executing Agency : M/S A2Z Maintenance and Engineering Services Pvt. Ltd., Gurgaon & M/S Shyama Power (India) Pvt. Ltd. Gurgaon (Turnkey basis).
5. Year of Sanction : 2007-08
6. Date of Start : October, 2008
7. Date of Completion : March, 2010 (18 Months).
8. Completion likely by : March, 2013
9. Need/ Importance of the Project:

The Power supply in Kargil district mainly depends on 3x1.25 MW Iqbal HEP and 10x250 KVA DG sets near Kargil town which is transmitted to rural and urban areas of Kargil block at 11 KV voltage level. The other blocks of district are being fed from small DG sets on localised basis. With the existing infrastructure power schedule was fixed for district Kargil in such a manner that electricity was supplied to urban areas for 6 hours and rural areas for 4 hours during a day. Not to speak of the un-electrified homes, even the electrified homes were facing acute shortage of power supply.

The Rajiv Gandhi Grameen Vidyutikaran Yojna (RGGVY) was launched by Gol for electrification of villages across the country with emphasis on partially electrified/ un-electrified villages. Kargil district having a widely scattered population with a difficult terrain was also selected under RGGVY. The scheme is being implemented by REC, Gol through NHPC in the district.

Earlier it was proposed to lay 220 KV line from Kashmir valley to Leh through Kargil for meeting power requirement of Leh and Kargil districts. However, later it was decided to generate electricity in Kargil district by establishing a 44- MW Hydro-Electric Project at Chutak and then supply power through a network of 66KV, 11 KV HT/LT transmission system.

#### Scope of Work:

1. Construction of 5 Nos. 66/11 KV sub-stations.
2. Construction of 110 Km, 66 KV line.
3. Construction of 345 Km, 11KV line.
4. Construction of 190 Km, LT line.
5. Installation of 172 Nos. Distribution Transformers.
6. Service connection to 1038 Nos. BPL Households.

#### Benefits of the Project:

- Electrification of un-electrified villages = 27 Nos.
- Electrification of de-electrified villages = 01 No.
- Electrification of un-electrified habitations = 118 Nos.
- Service connection to BPL Households = 1038 Nos.

#### 10. Financial Status of Work:

(Rs. in Crores)

S. No.	Particulars	Ph-1	Ph-2	Total
1.	Project cost (approved by REC of GOI)	127.01	119.21	246.22
2.	Tendered Cost (Contract awarded amount).	140.00	--	--
3.	Revised Cost (yet to be approved by REC of GOI)	174.07	--	--
4.	Funds released by GOI till August 2011	137.25	--	137.25
5.	Expenditure incurred upto August 2011.	115.65	--	115.65
6.	Percentage Expenditure against tendered cost.	83%	--	--
7.	Percentage expenditure against revised cost.	66%	--	--

Note: Project cost/ expenditure figures are inclusive of 9% service charges of NHPC but do not include entry tax, other duties and levies as applicable.

## 11. Reasons for escalation in cost of Project:

Phase-1 of the project was sanctioned by REC, GoI for an amount of Rs 127.01 crore and the contract was awarded to the executing agency for an amount of Rs 140.00 crore. However, there was deviation in cost due to changes in individual item quantity on contract sum. The revised cost has been worked out to Rs 172.17 crores. The reasons given by NHPC for revision in cost are: -

- The cost estimate for tendering of work was based on cost data of sub transmission works at 66 KV level of PDD, Govt. of J&K
- At the time of cost estimation, it had been envisaged that the land provided for construction of 66/11 KV sub-stations shall be plain and as such no provision for earth work or any protection work was provided in the scope of work. The land provided by the J&K state PDD is of steep gradient and needed heavy earth cutting for its levelling and execution of stone masonry work for protection.
- The routes provided by the PDD in view of the topography/ geology of the area, connectivity of other areas as per the requirement of PDD through HT Lines increased the length of HT and LT lines.
- Increase in number of 25 KVA and 10 KVA Distribution Transformers as per the requirement of J&K PDD.

The approval of the revised cost sought by NHPC from REC, GoI has not been conveyed as yet.

## 12. Physical Status of Work:

Description	Unit	Target	Achievement	% Ach.
<b>A. 66 KV Line</b>				
Excavation for towers	Nos.	487	381	78%
Concreting for towers	Nos.	487	370	76%
Erection of towers	Nos.	487	237	49%
Line Stringing	Kms.	96.2	36	37%
<b>B. HT</b>				
Poles	Nos.	5905	3629	61%
Line Stringing	Kms	354.9	143.195	40%
<b>C. LT</b>				
Poles	Nos.	2521	2103	83%
Line Stringing	Kms.	190.25	62.224	33%
<b>D. BPL connections</b>				
Households	Nos.	1038 (1665*)	915	88%
<b>E. 66/11 KV Sub-Stations</b>				
<b>1. Khangral</b>				
Excavation	%age	100	100	50%
Concreting	Nos.	9	9	
Erection of Gantries	Nos.	9	2	
<b>2. Mulbek</b>				
Excavation	%age	Work yet to be taken up		0%
Concreting	Nos.			
Erection of Gantries	Nos.			

Description	Unit	Target	Achievement	% Ach.
3.Kargil				90%
Excavation	%age	100	100	
Concreting	Nos.	14	14	
Erection of Gantries	Nos.	14	14	
4.Gramthang				30%
Excavation	%age	100	100	
Concreting	Nos.	12	12	
Erection of Gantries	Nos.	0	0	
5.Sankoo		Work yet to be taken up		0%
Excavation	%age			
Concreting	Nos.			
Erection of Gantries	Nos.			

\*Actual figure as per survey

## 12. Field Observations:

The rural electrification project is being executed in district Kargil by M/S A2Z Maintenance and Engineering Services Pvt. Ltd., Gurgaon & M/S Shyama Power (India) Pvt. Ltd. Gurgaon on turnkey basis under the supervision and technical guidance of NHPC. The Project comprises of five basic components, namely, Construction of 66/11 KV substations, laying of 66 KV transmission lines, laying of 11 KV HT/ LT lines, installation of transformers and providing free BPL connections. Keeping in view the large size of the district and spread of rural electrification works across all habitations of the district, some portions of all the five basic components were inspected during the field visit and the following as observed:-

- a) Out of 5 sub-stations under ph-1, 2 substations which were inspected are the substation which located at Kargil and Khangral. The quality of civil and electrical works executed in the inspected substations was found satisfactory. The third substation located at Granthama which could not be visited due to scarcity of time had only civil works completed as was evident from the photographs shown by the executing agency. The work of the remaining two sub stations, one to be constructed at Sankoo and the other at Mulbek has not started as yet.

The reasons for delay in taking up the construction work of sub station at Sankoo has been attributed to the identification of the land in the flood prone area. Although the land was acquired and compensation paid to the locals of Sankoo by the district administration but the NHPC refused to take up work on this piece of land. NHPC along with engineers of PDD have recently identified another piece of land for construction of substation at Sankoo and informed that work shall be taken up as soon as the same is acquired by the district administration and handed over to the PDD. Chief Engineer NHPC Kargil/Leh informed that the locals are willing to give their land to PDD.

The land for construction of sub-station at Mulbek has been acquired and it was informed that work shall be taken up shortly. However, it was also informed by NHPC that there was no approach road leading to the identified land. The adjoining land where the approach path could be constructed has been acquired by the Tourism Department and also fenced recently. Until the Tourism Department does not share a common approach path with NHPC or transfer the required land to PDD, the work on the substation will remain held up.

- b) The 66 KV Transmission line laid along the Kargil Chutak highway and again from Granthama to highway adjoining village sankoo was visible on major stretch of the road. The work of erecting 29 towers between Chutak and Granthama is pending since long. The NHPC engineers informed that despite making a requisition to the district administration about a year back, the land required for erecting the 29 towers has not been handed over to the PDD. Recently the district administration provided security cover for foundation work at 11 locations out of 29 as the land at these locations belonged to the state. On the day of visit earthwork was in progress at three locations. The NHPC informed that the locals were obstructing work even on state land and the DC is unwilling to provide adequate security for a longer duration. It was also brought to the notice that the locals whose land had been acquired amicably by PDD for the project have not been paid compensation by the district administration as a result of which there is resentment among the land owners who have started obstructing further execution of works at different locations. While travelling from Kargil to Leh, the laying of 66 KV transmission line from Kargil to Khangral could be observed along a major stretch of the highway.
- c) The 11 KV HT/LT line and distribution transformer of 25 KVA were inspected in the village Karcheykhol, sankoo. While visiting one of the hamlets of village Karcheykhol, the free BPL connections provided to households were also inspected. Mr. Mohammad Zaffar who had been provided a free BPL connection informed that electricity is provided between 7:00 Pm to 11:00 Pm to their hamlet from the locally installed DG set. The locals also demanded for an extra electric pole at a particular location and complained that a couple of poles were inclined. The NHPC authorities were asked to address the problems raised by the locals to their satisfaction. The 11 KV spur line proceeding to the Richen hamlet which had a 10 KV transformer installed was also sighted from a distance as the said hamlet was across a local Nallah.

## 13. Problem Areas/ Suggestions:

S. No	Problem Areas	Suggestions
1	<p>Land initially identified for construction of 66/11 KV sub station at Sankoo was located in the flood prone area and, therefore, was rejected. New site has been identified by NHPC and PDD, the acquisition process is underway. District Administration is uncomfortable with changing the site since compensation of Rs 3 lacs has already been disbursed for acquiring the land originally identified.</p>	<p>The Deputy Commissioner, Kargil needs to ensure that the alternative land identified by NHPC and PDD is immediately acquired and transferred to PDD so that NHPC takes up the construction work of sub station in Sankoo. Investing crores of rupees to develop infrastructure in a flood prone area just because compensation has been disbursed to locals is unjustifiable. Flood prone areas are usually state land and there should not have been any need for acquiring it from locals or payment of compensation. Anyhow, the District Administration should either recover the compensation paid to the people and return them their acquired land or utilize that land for alternative purpose.</p>
2	<p>Land has been identified for construction of a 66/11 KV sub station at Mulbek, but there is no approach path leading to it since Tourism Department has already acquired the land which could be used for developing the approach path.</p>	<p>Tourism Department which has acquired the land adjacent to the land identified for construction of sub station could either spare the corridor required for construction of approach path or may coordinate with PDD to develop a common approach path leading to the substation as well as the infrastructure which it has proposed to develop.</p>
3	<p>Erection of 29 towers between Chootak HEP and Granthama sub station is pending since long as the locals are interrupting the work being carried out by the executing agency. 11 out of the 29 locations are state land but even here the locals are creating problems. The Deputy Commissioner Kargil did provide security cover for taking up work on the 11 locations identified as state land but has refused to spare security personnel over a lengthy period of time.</p>	<p>The Deputy Commissioner Kargil needs to ensure that the land required for the project is acquired and transferred to PDD and adequate security is provided to the men at work so that all the 29 towers are erected on this stretch of land without interruption by the locals. The Deputy Commissioner Kargil must pacify the locals to save money of the state exchequer, since delay in execution work will result in slippage of execution time escalating the cost of project by crores of rupees.</p>

S. No	Problem Areas	Suggestions
4	The project cost under ph-1 has been revised by NHPC and proposal submitted to REC, GoI but the approval has not been conveyed as yet.	The PDD, J&K State must immediately take up the issue with the MoP, GoI so that necessary revision is accorded to the project without delay.

#### 14. Conclusion:-

The Rural Electrification Project under implementation in district Kargil has brought some hope to the poor people who live in inhospitable conditions and remote corners of the district. The pace of execution of the project has slowed down during the last few months and could create resentment among the locals if not completed in time. The District Administration, PDD, Science & Technology Departments and NHPC must put in their efforts in a coordinated efforts to ensure the completion of the balance work without further escalation in time/cost.

Physical Verification Conducted by:	Madan Gopal Sharma, Deputy Director Planning, Monitoring Cell, Chief Minister's Secretariat.
Officers of Executing Agency who accompanied:	1. Mr. Sanjay Gupta, Dy. Mngr., Civil NHPC 2. Mr. Pushmeet Singh, AM, NHPC 3. Mr. Sanjay Kumar, Engineer, Elec. NHPC