FORM A

Form for seeking prior approval under section 2 of the proposals by the State Government and others authorities.

PART-I

(To be filled by user agency

1	Project detail		
	i)	Short narrative of the proposal and project /scheme for which the forest land is required.	The total forest land required for the construction of Shanag Middle 100KW Micro Hydel Electric Project is 0-16-69 Hectare and is located in VPO-Shanag, Tehsil- Manali, Distt-Kullu, Forest Division-Kullu, Himachal Pradesh. The project components i.e. Trench weir, Feeder channel, Desilting tank, Flushing pipe, Forebay, Penstock, Power House, Muck Dumping Area, Tail Race, and transmission line will be constructed on the proposed forest land. The water of Halandi stream will be diverted by the construction of a diversion weir and conveyed through a closed conveyance channel/pipe of approximate length of 10 mtr to the Desilting cum Forebay tank from where the water will be carried by a penstock till the power house which houses the turbines and generators and hence the generator shall generate 100 KW electric power. The power generated shall be evacuated through a 11kv underground transmission line. At present Non-Renewable Resources like Kerosene, Diesel and forest wood are being used as domestic fuel. Availability of reliable qualitative electricity would help these precious natural energy resources'. also the scheme shall activate industrial development in the area apart from improving living conditions of the people. The people will also gain employment on construction activities and will help in ameliorating the poor. Approximate 2,000 man days of employment would be generated directly during the construction of this project. As hydro electricity is a green energy there are no ill effects on the environment and surrounding areas during and after completion of the construction.
	ii)	Map showing the required forest land, boundary of adjoining forest on a 1:50:000 scale map.	Attached at page No. _____
	iii)	Cost of project	The Estimated cost of project in Rs. 197.00 Lakh
	iv)	Justification for locating the project in forest area.	The catchment area of Halandi Nala above the diversion structure is a total forest land. The bed slope of Halindi Nala Varies from 1:5 to 1:10 which is an ideal condition for generation of hydro electricity. The proposed project is a run of the river scheme, a 10 mtr wide diversion weir will be constructed to divert water and the water will be joining the existing flow

			after the tail race. Two alternatives were planned during the survey and each of the alternatives required forest land for the execution of the project . After exploring all the alternatives, considering minimum forest land, tree felling, disturbance to eco system and in view of other technical parameters this alternative was finalized during the joint inspection.
	v)	Cost benefits analysis	The estimated cost of the project is 197.00 Lakh . The cost of the project shall be financed through a Equity of Rs 59.10 Lakh and a debt of Rs 137.90 Lakh. The Debt would be paid in a period of 9 year with a moratorium of 1 year. The Interest on Debt is calculated as 11% P.a. The project would generate 0.819 million Units (75% dependable year). The sale of electricity to HPSEB would get a tariff of Rs 3.79/Kwh. Based on our financial parameters regarding the cost and revenue , Cost Benefit Analysis is not applicable for micro HEP.
	vi)	Employment likely to be generated	During the construction work of project no regular employment will be generated. However, 3000 (i.e. Manadys) temporary employment will be generated during the construction work of the project. After the completion of the project work, total 7 regular employments will be generated.
2		Purpose –wise breakup of the total land required.	

S.No	Name of the component	Area (LxB)	Village / Mohal	Khasra No./ Tukda No.	Total area	Area land status		Classification of land
						Forest land	Private land	
1	WIER SITE	10x6=60	Majhach	1132/1 क	0-00-60	0-00-60		
	Feeder channel	10 x2/2 9x2/2	Majhach	1132/1 गो	0-00-19	0-00-19		
2	Desilting tank	20x6=120	Majhach	1132/2	0-01-20	0-01-20	------	
	Flushing pipe	15x2=30	Majhach	1132/5	0-00-30	0-00-30		
3	Dumping site-1	20x8=160	Majhach	1132/3	0-01-60	0-01-60		
	Dumping site-2	10x5=50	Majhach	1136/2	0-00-50	0-00-50		
	Dumping site-3	20x8=160	Majhach	1136/3	0-01-60	0-01-60		
	Dumping site-4	10x6=60	Majhach	1132/8	0-00-60	0-00-60		
4	Penstock	122 x 2= 244 53x2=106	Majhach	1136/1	0-03-50	0-02-44 0-01-06		
	Penstock	108x2=21 20 x2=40 15x2=30 40x2=80	Majhach	1132/4	0-03-76	0-02-16 0-00-40 0-00-30 0-00-80		
5	Power house	20x10=20 0	Majhach	1136/4	0-02-00	0-02-00	------	
6	Transmission line	50x1=50	Majhach	1136/6	0-00-50	0-00-50	------	
7	Tailrace	17X 2 =34	Majhach	1136/5	0-00-34	0-00-34	------	
	GRAND TOTAL	**1669**			**0-16-69**	**0-16-69**	------	
TOTAL LAND REQUIRED FOR SHANAG MIDDLE MHEP					**0-16-69 Ha**			

3	Details of displacement of people due to the project. If any		Not Applicable
	i)	Number of	Nil

		families	
	ii)	Number of scheduled caste/scheduled Tribe families	Nil
	iii)	Rehabilitation plan (to be enclosed)	Nil
4	Whether clearance under the Environment (protection) Act, 1986 is required ? (Yes/No)		No
5	Undertaking to bear the cost of raising and maintenance of compensatory afforestation and /or penal Compensatory afforestation as well as cost for protection and regeneration of safety Zone, etc. as the scheme prepared by the State Government (undertaking to be enclosed)		Attached at page.
6	Details of certificate /documents enclosed as required under the instructions.		

Place :.....

Date :.....

State serial No. of proposal _____

SHANAG MIDDLE HEP (100KW)