FORM - 'A'

Form for seeking prior approval under section 2 of the proposals by the State Governments and other authorities

PART- (to be filled up by user agency)

Project details

i. Short narrative of the proposal and project/scheme for which the forest land is required

Dibang Multipurpose Project (3000 MW) previously investigated by Brahmaputra Board was transferred to NHPC by Ministry of Water Resources (MoWR) vide F No. 24/2(D)/2001-ER/4972-77 20.12.2002 and order was formally issued to NHPC under section 18A of the Electricity (Supply) Act vide MoP letter No. 22/7/2001-DO (NHPC) dt. 24.12.2002 to establish, operate and maintain the project. In the letter of MoWR it was also decided that Brahmaputra Board will continue to prepare Detailed Project Report (DPR) with active involvement of CWC and NHPC. Later the work of preparation of DPR including the design of the project was entrusted to NHPC by MoWR vide F No. 24/4/D/ 2004-ER/93-97 dt. 07.01.2005. Dibang Multipurpose Project (3000 MW) has been conceived on River Dibang which originates from snow covered southern flank of the Himalayas close to Tibet border at an altitude of more than 5000 m. The river emerges from the hills and enters sloping plain area near Nizamghat in Arunachal Pradesh, from where the river flows a distance of 50 km to meet the river Lohit. The total catchment area of Dibang up to its confluence with Lohit is 12015.0 Sq Km, which almost entirely lies in

The main project area is located in Lower Dibang Valley district with reservoir extending in Dibang Valley district of Arunachal Pradesh with negligible R & R problems and no submergence of archaeological / other installations.

The project envisages utilisation of 233 m of net rated head by construction of a 288 m high concrete

gravity dam above the deepest foundation level near Munli. An underground powerhouse has been proposed on right bank located 250 m downstream of the dam axis. The water is lead to head race tunnel through six intake structures. Six 9 m diameter horseshoe shaped concrete lined head race tunnels have been proposed. The water from turbine shall be discharged back to river through six 9 m diameter tail race tunnel

The reservoir created behind Dam will provide flood moderation benefit in the downstream. The back water in the reservoir will travel up to a length of 43 km in Dibang river and its various tributaries - Airi Pani, Ilu Pani, lmu Pani, Ahi river, Ithun river, Emra river etc., which will facilitate promotion of navigation by connecting inaccessible upstream villages/areas. The project headquarter is proposed to be at Project site near Pathar Camp on right bank about 6 km downstream of the dam axis. The project is about 43 km from Roing. The nearest broad gauge railhead is at Tinsukia which is 110 km from Roing (headquarter of Lower Dibang Valley district) and the nearest airport is at Mohanbari (Dibrugarh), which is further 45 km from Tinsukia.

The salient features of the project are enclosed herewith as Annexure 'A'.

Map placed as Annexure 'B'. The land shown on the map includes private land also, which is required to be verified by Forest Department with the help of District Authorities.

The project is estimated to cost Rs. 14530.48 crores at November 2005 price level excluding transmission portion. This includes Rs. 12969.89 crores as hard cost (Rs. 10780.36 Crores for Civil works and Rs. 2189.53 crores for Electrical & Mechanical works) and soft cost as Rs. 1560.59 crores as I.D.C. and financing charges.

As per the studies for the reassessment of the potential carried out by CEA, Arunachal Pradesh has a probable installed capacity of 66065

Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map

iii. Cost of the project

iv. Justification for locating the project in forest area

MW and hydroelectric potential of Arunachal Pradesh is estimated at 34920 MW at 60% load factor.

Power is the most important and essential Input for economic development of country. Hydropower is essentially required for quality power i.e. for the grid stability, The greatest merit of hydropower is its suitability, durability, variability and economic viability. Dibang Multipurpose Project is one of the projects in the series of cascade development of Dibang river. Location of the project Dam and other components have been finalized after investigating various afternatives.

The proposed Dam site of Dibang multipurpose Project is found to be a good combination of geological and topographical features development of hydro-potential with negligible R & R problems and no submergence of archaeological / other installations. The project has been found commercially viable and generation from the project shall mitigate the miseries of power-starved industry and people in the eastern and north-eastern states of India. The regulated flow from dam will also provide flood moderation benefit to the downstream areas of Arunachal Pradesh and Assam. Also due to impounding, the back water in the reservoir will travel up to a length of 43 km in Dibang river and its various tributaries - Airi Pani, Ilu Pani, Imu Pani, Ahi river, Ithun river, Emra river etc., which will facilitate promotion of navigation by connecting inaccessible upstream villages/areas. In addition, the other advantages of present location of the project are:

- > Exposed gneissic rock at Dam
- Reasonable distance from Mishml and Lohit Thrusts.
- Devoid of any active or significant slides
- Topographic stability to accommodate all appurtenances.
- No submergence of mineral resources.

- v. Cost-benefit analysis (to be :
- vi. Employment likely to be generated

 Easy availability of construction material in the vicinity of project.
 Cost-benefit analysis placed as

Annexure 'C'

Lower Dibang Valley District is inhabited by two important tribes, the ldu and the Adi. Also there are a number of sub-tribes and a small population of Nishing. However, in the upper catchment, under Dibang Valley District, mostly the Idu tribes are found. More than 80% of them live below poverty line (BPL) with annual income less than or equal to Rs. 20,000/-. All the BPL families are self employed in agriculture and practicing traditional ihum cultivation, Most of them live in 'kachcha' houses. The execution of Dibang Multipurpose Project will accelerate economic activities in the area, resulting creation of employment opportunities for the benefits of local habitants.

Purpose-wise break-up of the total land required

Break-up is given below:

SI. No.		Name of Project Component	Area (ha)	
		Reserve Forest Land		
2		Forest Land		
	Α	Submergence area		
	(i)	River bed area	1000.00	
_	(ii)	Steep slope	2001.50	
	_ B	Project area		
	(i)	River bed area	100.00	
	(ii)	Rest area	150.00	
		Sub-total (a)	3251.50	
3_		Private Agricultural Land		
_	<u>A</u>	WRC land (under submergence)	70.00	
		Sub-total (b)	70.00	
4		Private Land with Forest Cover		
	A	Submergence area		
	(i)	River bed area	262.00	
_	_(ii)	Flat land	150.00	
	(iii)	Gentle slope	350.00	
	(iv)	Steep slope	175.50	
_	В	Project Components & Construction Facilities		
	(i)	Area for Dam, DT, HRT, Pressure Shaft, Power House, TRT, cable crane on right bank & left bank	100.06	
	(ii)	Area for muck disposal, batch plant, switch yard & aggregate processing plant on right bank just d/s of dam.	20.00	
	(iii)	Area for NHPC, contractor camp & office on right & left bank	79.25	
	(iv)	Area for permanent magazine opposite to Pathar Camp on left bank	2.50	

(v) Rest area for project C Epalir clay quarry D Colony area at Roing E Land for Rehabilitation purposes F Road land – New Road 24' m wide (Roing-Hunili road from 19 km point to project site on left bank – 22 km, Road from Aka Korong to Dambuk – 22 km, lealignment of road in Ithun Valley – 20 km), Widening of existing road (12 m to 24 m) of Roing-Hunii road from 0. G Area for Towers for 66 KV Line from Chimari to Project site and substation at Chimari, 5 towers/km with 9 sq m area for each tower 8 250 sq m for substation H Area for Right of Way for 66 KV Line from Chimari to Project site area (45 km long and 18 m wide) Project site area (45 km long and 18 m wide) 5 Private Land without Forest Cover A Project Components & Construction Facilities (i) Area for DTO utilet 8 TRT outlet on right bank (ii) Area for muck disposal, fabrication yard & aggregate processing plant on right bank near Pathar Camp B Eme river / Dirt Korong deposit C Nizamghat-Sirki D Aya Korong / Aka Korong fan deposit Total Reserve Forest Land Total Reserve Forest Land Total Forest Land with Forest Cover Total Private Land without Forest Cover Total Private Land be taken for calculating NPV= (e)+(f) Total Land Area to be taken for calculating NPV= (e)+(f)			A	-	- 20
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Total Land Area to be taken for calculating NPV= (e)+(f) 5056.50				70 00	J A 14
			Total Land Area to be taken for calculating NPV= (e)+(f)	5056.50	11

Details of displacement of people due to the project, if any

i. Number of families

ii. Number of Scheduled Castes / Scheduled Tribe families

iii. Rehabilitation plan (to be enclosed)

 Whether clearance under Environment (Protection) Act, 1986 required? (Yes/No)

 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 68 families belonging to five villages viz. Sukla Nagar, New Anaya, Eprali, Kano and an unnamed village in Dibang Valley & Lower Dibang Valley districts

All families belong to Scheduled tribe. R & R report is under preparation and is being prepared by National Productivity Council, Guwahati. The same shall be submitted separately.

Yes

25. 35. 35.

351 64

per the scheme prepared by the State Government (undertaking to be enclosed)

: Undertaking attached as Annexure 'D'

 Details of Certificates/documents enclosed as required under the instructions

: Annexure 'A' - Salient features of project

Annexure 'B' – A map on 1:50000
Annexure 'C' – Cost-benefit analysis
Annexure 'D' – Certificate of Undertaking for compensat-

taking for compensation, ory afforestation.

Annexure 'E' – Certificate of Undertaking for NPV

Signature

(Om Prakash) ef Engineer (I/C)

Chief Engineer (I/C)
Dibang Multipurpose Project
NHPC Ltd., Roing – 792 110.
(Arunachal Pradesh)

Date: 16/01/06 Place: Roying

State serial No. of proposal 197 4-10/5/// (Runisa) (To be filled up by the Nodal Officer with date of receipt)

PART-II

(To be filled by the concerned Deputy Conservator of Forests) State serial No. of proposal

Location of the project/ scheme

(i) State/ Union Territory : Arunachal Pradesh

(ii) District : Lower Dibang Valley

(iii) Forest Division : Dibang Forest Division, Roing

(iv) Area of Forest land proposed for : 2197.70 ha (falling in Dibang Forest Division). diversion (in ha.)

SL No	Name of the Project Components			Area (Ha.)
i).	Submergenc	e area		
	Name of River	Left bank	Right bank	
	Dibang River	144.23	119.55	
	Ari pani	52.00	50.00	
	Ilu Pani	81.00	102.00	
	Ithum River	48.00	43.00	
	Ithi River	19.00	21.00	
	Total	344.23	335.55	679.78
ii)	Area of Dan	1		15.50
iii)	Area for DT	, part HRT		32.50
iv)	Area for HRT & pressure Shaft,			40.00
	Power House, TRT & Project			
v)	Area for mu	ck disposal	, batch plant,	
	switch yard & aggregate processing			20.00
	plant on righ	t bank.		
vi)	Rest area for project			150.00
vii)	Road land			124.00
viii)	Area for Towers			0.23
ix)	Area for Right of Way		81.00	
x)	Eme River/ Dri Korong deposit (As			167.00
	per construc			
xi)	Aya korong/ Aka Korong fan			373.00
	Deposit			3/3.00
	Sub- Total			1683.01
	River bed area			514.70
	Total			2197.71

⁽v) Legal status of Forest

[:] Community Forest (CF)/ Unclassed State Forest (U.S.F)

(vi) Density of Vegetation

SL No	Particulars of Density	Area (Ha.)
1.	Canopy Density Class - upto 0.40	1110.78
2.	Canopy Density Class - > 0.40 up to 0.70	572.22
3	Non-Forest i.e. River Bed/ Water-body	514.70
	Total	2197.70

- (vii) Species-wise(Scientific names): and diameter class-wise enumeration of trees (to be enclosed, in case of irrigation/ Hydel projects enumeration at FRL-2 meter & FRL-4 meter are to be enclosed).
 - Detailed Enumeration List is Enclosed as Annexure-I (a-h) & II (a-g)

(viii) Brief note on vulnerability of the Forest area to erosion

The Dibang catchment receives a major portion of precipitation during south west monsoon in addition to snow at the higher reaches during months. Generally, the responsible for erosion are slopes together with the surface run-off at the high velocity over the surface. Though there is dense mixed vegetation in the catchment areas of present project, in some open patches natural soil erosion activity may take place in and round the area.

(ix) Approximate distance of: proposed site for diversion from boundary of Forest.

x Whether forms part of National :-

Park, wildlife sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc. (if so, the details of the area and comments of the Chief Wildlife warden to appeared)

xi. Whether any rare / endangered / :- Not Sighted unique species of flora and fauna found in the area- if so details thereof.

xii. Whether any protected :- No Archaeological / heritage site / Defense establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required.

Dam site is located more than 11 Km (Approx), from Mehao Wildlife Sanctuary and 25.5 Km from Dibang Reserve Forest.



- 8. Whether the requirement of forest :land as proposed by the user agency in col. 2 of part-I is unavoidable and barest minimum for the project. If no, recommended area item -wise with details of alternatives examined.
 - YES, the requirement of forest land as proposed by the user agency is unavoidable and barest minimum for the project.
- 9 Whether any work in violation of the :- No Act has been carried out (Yes/No). If yes, details of the same including period of work have done, action taken on erring officials. Whether work in violation is still in progress.
- 10. Details of Compensatory orestation scheme
- Details of non forest area/degraded :-(i) forest area identified for compensatory afforestation. its distance adjoining forest, number of patches. size of each patch.
 - The total forest area required for diversion is 5056.50 ha. falling in two forest division i.e. in Dibang FD 2197.70 ha & in Anini FD 2858.80 ha. Hence, compensatory afforestation has to be created over double the area in degraded forests i.e. $5056.50 \times 2 = 10,113$ ha. Identification of degraded forest land for compensatory afforestation has been done in Dibang Forest Division, Namsai Forest Division and Anini Forest Division as given below,

Division	Location	Area (ha)	Remarks
Dibang	Kerim RF. Deopani RF Bishmaknagar RF	1209.00 534.00 500.00	Annex- V(c)
Namsai	Kamlang RF Lai RF Lohit RF	500.00 500.00 1000.00	Annex- V(c)
Anini	CF/UF	5870.00	Details as submitted by DFO, Anini
	Total	10113 ha.	

- area identified for compensatory afforestation adjoining forest boundaries.
- Details compensatory afforestation (iii) scheme including species to be planted, implementing agency, time schedule, cost structure, etc.
- Map showing non-forest/degraded :- Map enclosed as Annex III (a) to III(d)
 - Detailed estimate for compensatory afforestation to be implemented by the Forest department is prepared separately for Dibang and Namsai Forest Divisions and are enclosed as Annexure-IV(a),JV (b). In case of Anini FD separate Scheme has been

- financial outlay for :-(iv) Total compensatory afforestation ration scheme.
- (v) Certificate from competent authority :regarding suitability of area identified for compensatory afforestation and form management point of view. (to be signed by the concerned Deputy Conservator of
- Site inspection report of the DCF (to :- Enclosed as Annex. VI be enclosed) especially highlighting facts asked in Col.7 (xi), (xii) 8 and 9 above.
- 12. Division/District Profile
- (i) Geographical area of the District.
- Forest area of the district. (ii)
- with number of cases.
- (iv) Total compensatory afforestation stipulated in the district/division since 1980, on
- (a) Forest Land including compensatory afforestation.
- (b) Non-forest Land.
- Progress of compensatory (v)
 - Afforestation as on date
 - (a) Forest Land (b) Non-forest Land
- Specific recommendation of DCF
- for acceptance or otherwise of the proposal with reasons

prepared and submitted by concerned DFO in his proposal.

:Rs. 32,61,85,950.00 (Dibang FD) + 28,82,84,350.00 (Namsai FD) = Rs. 61,44,70,300.00 & Details enclosed as Annexure - IV(a) & JV (b)

Certificate for the area identified for compensatory afforestation under Dibang and Namsai Forest Division is enclosed as Annexure - V(a) & V(b).

:- 3900 sq km (L/Dibang Valley)

:- Reserve Forest = 719.61 Sq Km Mehao W/L sanctuary = 281,50 Sq Km USF (under working scheme) = 535.30 Sq Km Total

= 1536.41 Sq Km Total forest area diverted since 1980 :- 26 ha. in one case.(Koronu -Paya- B/Nagar Road)

- penal :- Total 622.00 ha i.e. 570.00 ha. against K.L.P. brigade under Lohit forest Division and 52.00 ha against Koronu -Pava- B/Nagar Road under Dibanh forest division.

 - :- Satisfactory ~ 622 he
 - :- 622.00 Ha.
 - :- NIL
 - The proposal can be accepted keeping in mind that the forest area proposed for diversion is the barest minimum requirement. And the project on implementation will benefit the local inhabitant immensely, beside power generation and flood moderation.

Date: - 17-01-2011

Place: - Roing

Signature: Name:

Official Seal

PART-H

(To be filled by the concerned Deputy Conservator of Forests) State Serial No. of proposal

- 7. Location of the project/scheme
- (i) State/Union Territory (ii) District
- (iii) Forest Division
- (iv) Area of forest land proposed for diversion (in ha.)

Arunachal Pradesh

Dibang Valley Anini S.F. Division

Sl. No.	Name of the Project Components			Area (Ha)
i)	Submergence Area			
	Name of River	Left Bank	Right Bank	-
	Dibang River	803.10	541.40	-
	Ithun River	120.00	135.00	
	Emra River	07.00	05.00	
	Alu River	86.00	49.00	
	Imu River	77.00	62.00	
	Ahi River	90.00	107.00	
	Total	1183.10	899.40	2082,50
i)	Road Land			53.00
_	Sub Total			2135,50
ii)	River Bed/ water body area			723.30
f	Total			2858,80

Forest (U.S.F.) and Community land

SL No. Particulars Area (Ha) Canopy density class upto 1430.80 Canopy density class- > 0.40 704 70 & upto 0.70 Non Forest i.e. River bed/ 723 30 water body Total 2858.80

Legal status of forest

(v)

(vi) Density of Vegetation

- (vii) Species-wise (scientific names) and diameter classwise enumeration of trees (to be enclosed, In case of irrigation/ Hydel projects enumeration at FRL-2 meter & FRL-4 meter are to be enclosed).
- Brief note on vulnerability of the forest area to (viii)
- (ix) Approximate distance of proposed site for diversion from boundary of forest.
- x) Whether forms part of National park, wildlife : NO sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc, (If so, the details of the area and comments of the Chief wildlife Warden to be

Detailed Enumeration list is Enclosed as Annexure III

The area is steep slope with deep gorge and is bounded with rock having loose soil. Therefore landslip may occur.

Approx - 20 to 22 Km from Mehao Wild Life Sanctuary & 40 to 60 Km approx from Dihang Dibang Biosphere reserves. The proposed site is located along the river bank of Dibang river and adjacent to forest area (USF/Community land).

		%)
	annexed).	<i>4</i> .
()	(i) Whether any production to the	
	Whether any rare/endangered/ Unique species flora and fauna found in the area, if so det thereof.	of : No endangered Flora & Fauna are found in the proposed Project area.
()	iii) Whether any protected archaeological / herits site/defence establishment or any other import monument is located in the area. If so, the det thereof with NOC from competent authority, required.	ige : NO
	required.	if
	• "	
8.	Whether the requirement of forest land as propos by the user agency in Col.2 of Part-I is unavoidal and barest minimum for the project. If n	le
		o, of
9.		
7.	Whether any work in violation of the Act has bee	n : NO
	erring officials. Whether work in violation is sti	IJ
10.	Details of compensatory afforestation scheme	
		1
i)	Details of non-forest area/degraded forest identifier	
	patch.	
ii)	Man -t-	
2)	Map showing non-forest/degraded forest area	
	identified for compensatory afforestation and adjoining forest boundaries.	supposed as Amexire -X1
iii)	Detailed components	
	including species to be planted, implementing	
	agency, time schedule, cost structure etc.	
iv)	Total linancial outlay for	
	afforestation scheme	Financial outlay for compensation of
v)	Comic	hundred ninety two only) Details enclosed as
•,,	Certificates from competent authority regarding	Enclosed as Annexure- VII
		- Eneroscu as Annexure- VII
	(To be signed by the concerned Deputy Conservator of Forests)	
11.	Site inspection report of the DCF (to be enclosed)	
		: Site inspection report enclosed as Annexure- X
		The state of the s
12.	Division/District profile	
i)	Geographical area of the District	
***		: 9029.0sqkm Approx
11)	Forest area of the Division	

: 6655.0Sqkm.

ii)

Forest area of the District



| Total forestland diverted since 1980 with number of cases | 426.08 ha on following six cases | 1. | Huml – Animi Road | -40.90 ha (BRTF) | -60.00 ha (BRTF) | -60.0

 Total Compensatory Afforestation stipulated in the district/ division since 1980 onwards

 a) Forest land including penal Compensatory : NIL Afforestation.

b) Non forest land : NIL
Progress of Compensatory Afforestation as on :

Date.

(a) Forest land

(b) Non - forest land
 Specific recommendations of the DCF for acceptance or otherwise of the proposal with reasons

: NIL

NIL. The proposal is recommended for acceptance in view of the long term gain by the State in general & locality in particular. However, massive afforestation works including treatment of catchment areas for controlling soil erosion/landslide etc is required as landslides etc are a common phenomenon in this locality.

vi. Chini - Afra Road MHS -0.43 ha (Power)

Station: Andmi

Date: 11-3. 2011

Divisional Porest Officer, Anim S.F.Division Anim

PART-III

(To be filled up by the concerned Chief Conservator of Forests)

- 14. Whether the site, where the Forest land is tocated has been inspected by the concerned Chief Conservator of Forests (Yes/No). If yes, the date of inspection and observation made in the form of inspection note to be enclosed.)
- 15 Whether the concerned Chief Conservator of Forests agree with the information given in the part II and recommendation of the Deputy Conservator of Forests.
- 16 Specific recommendation of concerned Chief Conservator of Forests for acceptance for otherwise of the proposal with detail reasons.

- Yes, the inspection was conducted on 11 03.2010 and 12.03.2010. Detailed observations are mentioned in the inspection report.
 - Yes, I agree with the information & recommendation given in the Pan-II of DFO Dibang Forest Division and DFO Social Forestry Division Anini (under whose jurisdiction the area falls)
 - Projected power generation of 11330MW (With flood moderation) in 90% dependable year with 95% machine availability will not only be beneficial for local development but would be revenue source for state. More over, project would provide employment opportunity for local youth, hence, in view of above, Dibang Multipurpose project (3000 MW) is recommended.

Chief Conservator of Forests

PART-IV

(To be filled in by the Nodal Officer or Principal Chief Conservator of Forests or Head of Forest Department)

17. Detailed opinion and specific recommendation of the stated Forest department for acceptance for otherwise of the proposal with remarks.

> (While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon)

PART-V

(To be filled in by the Secretary in charge of Forest Department or by any other authorised officer of the State Government not below the rank of an Under Secretary)

Recommendation of the State Government:

(Adverse comments made by any officer

Located in a strategically located area of Arunachal Pradesh, harnessing or authority in Part-B or Part-C or Part-D above the first users right. The impact en forests & environment will be duly compensated as prescribed in the EMP & the compensatory afforestation that is proposed under the project.

Recommended.

Date: 17.8,2011

Place: Itanagar.

Name & Designation

achal Pradesh