OFFICE OF THE DIVISIONAL FOREST OFFICER, NABARANGPUR DIVISION Phone No. 06858-222014 (OFFICE/FAX), Cell No. 09437094840 Email -dfo.ngpur@yahoo.co.in

T	Memo No. 37724F(Misc.) /2016 Dated, Nabarangpur, 280et-2016
To	The Regional Chief Conservator of Forests, Koraput Circle, Koraput.
Sub: -	Proposal for diversion of 51.783 ha. of forest land for construction of Turi-Guntat Irrigation project in Nabarangpur Block of Nabarangpur District under Nabarangpur Forest Division.
Ref:-	1. Memo No. 17849/9F (Irrg)-317/2016 dtd. 19.09.2016 of Addl. PCCF Forest Diversion & Nodal Officer, FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar. 2. Your Memo No. 3477 dtd. 08.09.2016.

With reference to the above cited subject, I am submitting herewith the compliance to the observations pointed out by the Special Secretary to Government of Odisha, Forest & Environment Department vide his letter No. 10F (Cons)-256/2016-16462/F&E dtd. 02.09.2016.

OBSERVATIONS	COMPLIANCE		
i) The project proposal includes a reservoir as well as canal project where forest land is also required. Since this is a non-site specific project, more than two alternate sites should have been examined and details thereof submitted to ensure avoiding/minimum use of forest land as per para 2.1(3) of FC Act guidelines. Despite mention of several alternative sites examined for this project at pate 212/DP, no details of such examination as per above FC Act guideline has been furnished in the DP to ensure inescapability of forest land shall therefore be furnished.	Complied on page: 214 & 214a		
ii) It needs to be clarified whether this is major/medium irrigation project.	This is a Medium Irrigation Project as the CCA is 9135 Ha (for major CCA should be 10,000 Ha or above). Page:-24		
iii) The project envisages two barrages to be linked by a canal. This project needs 363.309 ha. of land including 20.774 ha. of forest land for canal project for irrigation. Details of canal project such as its length, width and other relevant information has not	Complied on page: 27 to 29		

been furnished.

iv) As per report of DFO, Nabarangpur and RCCF, Koraput, 51.783 ha. of forests land required for the project includes 7.193 ha. of Bikrampur Reserved Forests However forest land schedule of Bikrampur Village authenticated by Tahasildar, Nabarangpur (page 106/DP) does not mention about this extent of land in RF. Land schedule of this village needs to mention RF land duly signed Nabarangpur Tahasildar, DFO. and Nabarangpur Besides, the DFO, Nabarangpur is required to furnish a map (A/4size) showing boundary pillars of 7.193 ha. of RF land required for the project duly authenticated by him.

Complied on page: 106 & 106a.

This is for favour of kind information and necessary action.

Divisional Forest Officer,
Nabarangpur Division.

Memo No. 3773 Dtd. 28/10/16/

Copy submitted to the Addl. Principal Chief Conservator of Forests, Forest Diversion & Nodal Officer, FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for information and necessary action with reference to his Memo No. 17848/9F (Irrg)-317/2016 dtd. 19.09.2016.

Divisional Forest Officer Nabarangpur Division.

Memo No. 3779 Dtd. 28/10/16

Copy to the Special Secretary to Government, Forest & Environment Department Govt. of Odisha, Bhubaneswar for information and necessary action with reference to his Memo No. 16463/ F& E dtd. 02.09.2016.

Divisional Forest Officer Nabarangpur Division.

Memo No.3775 Dtd. 28/10/161

Copy forwarded to the Executive Engineer, Koraput Investigation Division, Jeypore, Dist- Koraput for information and necessary action with reference to Memo No. 16465/ F& E dtd. 02.09.2016 of Special Secretary to Government, F & E Department.

Divisional Forest Officer Nabarangpur Division.

JUSTIFICATION FOR LOCATING TURI-GUNTAT IRRIGATION PROJECT IN **FOREST LAND**

During the Investigation of the Project various alternatives were checked for feasibility of structure, submergence, involvement of forest land, displacement and optimal uses of the inflow in Turi and Guntat River for irrigating cultivable land in its proposed command area.

Alternative I:

First a site selected across Turi River near village Siuni (Lat: 190 14' 16.74" Long: 82° 27' 07.20") 0.50 km below the confluence of Guntat River. Which may involves 42 ha of forest land. The site was abandoned due to non-availability of suitable rock strata for foundation and higher submergence.

Alternatives II:

The second site was examined 2.5 km downstream of the confluence near village Bhimaguda(Lat 19° 14' 06.49" N and Long 82° 26' 27.56"E) which may involves 35 ha of forest land..The site was also abandoned due to non-availability of suitable rock strata for foundation and higher submergence in the villages like Bhimaguda & Siuni.

Alternatives III:

As further going down stream of the alternative site-II would have resulted reduction in the proposed command area, further investigation was carried out on the upstream of the confluence. It was decided to construct two separate barrages one at Deola (Lat: 19° 15' 29" N & Long: 82° 28' 22" E) on river Guntat and another at village Chatahandi (Lat: 19° 16' 55" N& Long: 82° 26′ 24″ E) on River Turi. The sites have suitable hard rock strata available in the beds for foundation.

The alternative III was finalized for the project due to suitable foundation stone, less submergence, no displacement and higher command area. The submergence of unavoidable forest land is 31.009 ha (4.80%) of the total submergence of 645.664ha

Accordingly a link canal to transfer excess water from Turi river to Guntat river and two counter canals from the head work have been planned ensuring minimal involvement of forest land of 20.774 ha (5.7%) of the total land 363.309ha required for the canal system.

Divisional Forest Officer

Nabarangpur Division

Koraput Investigation Division, Jeypure, Koraput

Project Details:

1. Introduction

The Turi Guntat Irrigation Project is an integrated diversion scheme envisages construction of two barrages one each across river Turi at Chatahandi and river Guntat at Deula village respectively in Nabarangpur block of Nabarangpur district, Odisha. The total catchment intercepted is 612 Km² i.e. 381 Km² is the independent catchment of river Turi at barrage site and 231 Km² is independent catchment of river Guntat at Guntat barrage side. The two ponds will be connected by a link channel. The catchment area lies entirely in the State of Odisha. On completion of this project it envisaged to irrigate about 9135 ha (CCA), hence it is an Medium Irrigation Project. The estimated cost of project is 11,787.50 lakhs as per 2010 price index. There will be zero displacement and it will provide potable water for 10,000 population. The project is dedicated for benefit of people without any adverse impact in KBK region.

2. Location

The Turi Barrage is located near village Chatahandi at latitude 19° 16' 55'' N and longitude 82° 26' 24'' E. The Guntat Barrage is located near village Deula at latitude 19° 15' 29'' N and longitude 82° 28' 22'' E. vide toposheet reference 65- I/ 7, 8, 10, 11, 3, 4, 6, scale (1: 50,000). The Project site is 13 km away from Nabarangpur District head quarter town on NH - 26. The nearest railway station is Jeypore.

3. Communication

The Project site is 13 km away from Nabarangpur District head quarter town on NH - 26. The nearest railway station is Jeypore in Koraput district.

4. Climate

The climate is extremely tropical characterized with hot summer and cold winter. Rainfall occurs mainly during monsoon stretching between mid June to October. The distribution of rainfall is not uniform. The principal crop is paddy, which is not assured to the cultivators due to irregular and uneven rainfall pattern in the ayacut area.



SALIENT FEATURES OF TURI-GUNTAT IRRIGATION PROJECT

1. Location Turi **Guntat** Odisha Odisha i. State ii. District Nabarangpur Nabarangpur iii. Sub Division Nabarangpur Nabarangpur iv. Village Chatahandi Deula v. River Turi Guntat longitude 82°26′ 24″ longitude 82°28′ 22″ vi. Location vii. Block Nabarangpur Nabarangpur 65-I/7, 65-I/8, 65-I/10, 65-I/11, 65-I/3,65viii. Topo Sheet ref I/4, 65-I/6 ix. Type Barrage Barrage x.Sub-Basin Indrabati Indrabati

2. Hydrology

i. Catchment Area (Km²) 381 Km² 231 Km²
 ii. Maximum annual rainfall 1784.65mm 1879mm
 iii. Minimum annual rainfall 874mm 845mm



i	v. Average annual rainfall	1418mm	1509mm
,	v. 75% dependable yield	622mm	643mm
V	vi. Design flood	2724 cumecs	1726 cumecs
3. Pr	rincipal Level		
	i. T.B.L	568.50 M.	566.50 M.
i	ii. H.F.L	566.00 M.	564.50 M.
i	ii. Pond Level	563.00 M.	562.00 M.
i	v. F.S.L of Canal	562.50 M.	561.50 M.
,	v. Barrage bays	558.00 M.	557.00 M.
V	vi. Under Sluices	557.00 M.	556.00 M.
vi	ii. Average B.L of River	557.435 M.	556.210 M.
vii	ii.Deepest B.L of River	556.765 M.	555.775 M.

4. Submergence Details

i. No. of villages to be submerged Nil

5. Barrage

i.	Туре	Concrete Barrage	Concrete Barrage
ii.	Length of Barrage	136 M.	98 M.
iii.	Number of Bays	7 Nos.	6 Nos.

Pu

	viii.	Deepest B.L of River	556.765 M.	555.775 M.
4.	Subi	nergence Details		170.70
	i.	No. of villages to be subme	erged Nil	
5.	Barra			
	i.	Туре	Concrete Barrage	Concrete Barrage
	ii.	Length of Barrage	136 M.	98 M.
	iii.	Number of Bays	7 Nos.	6 Nos.
	iv.	Size of Gate	10 M. * 5 M.	10 M. * 5 M.
	v.	Number of Under Sluices	4 Nos.	2 Nos.
	vi.	Size of Under Sluice Gate	10 M. * 6 M.	10 M. * 6 M.
	vii.	Type of Gate	Vertical	Vertical
				31 11011
6.	Detail	s of Command Area		
	i.	G. C. A	10300 Ha	
	ii.	C. C. A	9135 Ha	
	iii.	Intensity of Irrigation	88%	
	iv.	Kharif	8000 Ha	
	v.	Annual Irrigation	8000 Ha	
7.	Length	of Canal System		
	Length	of Main Canal	36.5 km	
		of Main Canal	70 Mtr	
	Length	of Link Canal	4.35 km	
	Width o	of Link Canal	50 Mtr	
		of Distributaries Canal	18 km	
	Width o	f Distributaries Canal	40Mtr	
	Length o	of Minor Canal	4.67 km	
	Width of	f Minor Canal	25 Mtr	



Forest Land Schedule

Name of the Village: Bikrampur Name of the PS: Nabarangpur Name of the Tahasil: Nabarangpur Name of the District: Nabarangpur

SI. No.	Khata No	Plot No	Total Area (in Acre)	Alienation Area (in Acre)	Kisam	Name of the Tenant	Remarks on Forest
1	588	87(P)	0.830	0.054	Forest	Rakhita	RevenueForest
2	588	88(P)	1.360	0.166	Forest	Rakhita	RevenueForest
3	588	89(P)	0.540	0.155	Forest	Rakhita	RevenueForest
4	588	93(P)	1.430	0.134	Forest	Rakhita	RevenueForest
5	588	94(P)	0.940	0.353	Forest	Rakhita	RevenueForest
6	588	161(P)	0.560	0.175	Village Forest	Rakhita	RevenueForest
7	588	95(P)	2.440	0.474	Forest	Rakhita	RevenueForest
8	588	97(P)	0.570	0.154	Forest	Rakhita	RevenueForest
9	588	98(P)	1.900	0.767	Forest	Rakhita	RevenueForest
10	588	146(P)	51.880	0.054	Village Forest	Rakhita	Reserve Forest
11	588	1025(P)	3.500	0.356	Forest	Rakhita	RevenueForest
12	588	1035(P)	37.830	4.295	Forest	Rakhita	Reserve Forest
13	588	1036	0.410	0.144	Village Forest	Rakhita	RevenueForest
14	588	1042	0.680	0.121	Jungle	Rakhita	RevenueForest
15	588	1043	0.920	0.480	Jungle	Rakhita	RevenueForest
16	588	1044	0.460	0.284	Jungle	Rakhita	RevenueForest
17	588	1107	1.800	0.531	Village Forest	Rakhita	RevenueForest
18	588	1109	1.910	0.451	Village Forest	Rakhita	RevenueForest
19	588	1112	0.200	0.200	Jungle	Rakhita	RevenueForest
20	588	1113	0.080	0.080	Village Forest	Rakhita	RevenueForest
21	588	1116	0.120	0.120	Village Forest	Rakhita	RevenueForest
22	588	1120(P)	19.880	13.425	Gochar	Rakhita	Reserve Forest
	Total		110.360	22.973		1 2 2	

Executive Engineer

Koraput Mivestination Division

Jeypo

Divinional Porest Officer Neberangour Division Tahasildar Nabarangpur

