कार्यपालक अभियंता का कार्यालय औरंगा निर्माण प्रमंडल, पांकी दिनांक 12) 08 / 2016

सेवा में,

वन प्रमंडल पदाधिकारी, मेदिनीनगर।

- मेदिनीनगर वन प्रमंडल अंतर्गत अमानत बराज से केनाल निर्माण हेत् 127.85हे0 विषय:-वन भूमि अपयोजन के संबंध में।
- सरकार के उप सचिव, वन पर्यावरण विभाग, झारखंड सरकार के पत्रांक 3468 प्रसंग :-दिनांक 19.07.2016 एवं उप वन संरक्षक, भारत सरकार पर्यावरण वन एवं जलवाय परिवर्तन मंत्रालय क्षेत्रीय कार्यालय, रांची के पत्रांक 583 दिनांक -30.06.2016

महाशय.

. उपरोक्त विषयक प्रासंगिक पत्र के संदर्भ में अमानत दराज योजना के वन भूमि अपयोजन प्रस्ताव में की गई पृच्छाओं से संबंधित प्रतिवेदन तैयार कर तीन प्रतियों में अग्रेतर कार्रवाई हेत समर्पित किया जा रहा है।

अनुरोध है कि अपने स्तर से प्रस्ताव के पार्ट-2 का हार्ड कॉपी तैयार कर संलग्न

प्रतिवेदन के साथ संबंधित कार्याल्य को भेजने की कृपा की जाय।

अन0-प्रतिवेदन तीन प्रति में एन प्रासंगिक पत्र की छायाप्रति।

विश्वासभाजन

कार्यपालक अभियंता. औरंगा निर्माण प्रमंडल, पांकी

पत्रांक 291 / दिनांक 12 08 2016 प्रतिलिपि:- श्री सुनील कुमार , सरकार के उप सचिव, वन पर्यावरण विभाग, झारखंड सरकार को ज्ञापांक वन भूमि / 07/2016/3468 दिनांक 19.07.2016 के क्रम में सचनार्थ समर्पित।

कार्यपालक अभियंता

औरंगा निर्माण प्रमंडल, पांकी

दिनांक 12/08/2016

प्रतिलिपि:— अधीक्षण अभियंता, औरंगा निर्माण अंचल, मेदिनीनगर/ मुख्य अभियंता, योजना, आयोजन एवं मोनेटरिंग, जल संसाधन विभाग, रांची / मुख्य अभियंता, जल संसाधन विभाग, मेदिनीनगर को सूचनार्थ एवं आवश्यक कार्रवाई हेतु समर्पित।

> कार्यपालकं अभियंता. औरंगा निर्माण प्रमंडल, पांकी

of confirmation

AMANAT BARRAGE SCHEME

Compliance to the comments raised on Diversion of 127.85 Ha Forest Land proposal no- FP/JH/IRRIG/15780/2015.

1. Catcment Area treatment Plan-

	Not required (Certificate attached)	Annexure (A)
2.	Cost Benifit Analysis in Ministry's Format-	Annexure (B)
3.	(i) Part 1 in Prescribed Format-	Annexure (C)
	(ii) Part 2 in Prescribed Format-	Annexure (D)
4.	Copy of Environmental Clearance-	
	Amanat Barrage Scheme is component of Auranga Res	servoir Scheme,
	Copy of Environmental Clearance of Auranga Reservoi	r Scheme is
	enclosed-	Annexure (E)
5.	Summary of girth wise and species wise tree details	Annexure (F)

6. Details of Forest area calculation proposed for diversion Annexure (G)

To whomever it may concern

This is to certify that the proposed forest land to be diverted is required for construction of Auranga Right Main Canal only. No reservoir is to be constructed in the forest land thus catchment area trentment plan is not required for this project.

Executive Engineer

Auranga construction Div. Panki

Camp - Medininagar

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ineer LIBIT

DIVISIE

Camp-Medininagar

Divisional Forest Officer Medininagar Forest Division, Medininagar

PARAMETERS FOR EVALUATION OF LOSS OF FOREST

51. Vo	Parameters	Medium & major irrigation, hydro electric, large mining & other misc. Projects.	Losses of forest in monetary terms
1		There is no population in the proposed portion of canal and nearby village who are deriving their livelihood wages from the forest.	Nil
2	Loss of animal husbandry productivity, including loss of fodder	As the forest is the nature of open forest. There are no animal husbandry taking place in the purposed area. There is no loss of animal husbandry productivity and fodder.	Nil
1	Cost of human resettlement	There are no settlement in the proposed portion of the canal.	Nil
4	Loss of public facilities and administrative infrastructure (Rods, building, schools, dispensaries, electric lines, etc.)		Nil
5	Environmental losses: (soil erosion, effect on hydrological cycle, wildlife habitat, microclimate upsetting of ecological balance	Cost of 0.3 density forest for 127.85 ha. @Rs. 38.022 lakhs = Rs.4861.1127 lakhs	Rs.4861.11 lakhs

6	Suffering to oustees	There is no settlement in	Nil
	AT WE	the proposed portion, so	
		there is no suffering	
	¥9	oustees.	

Lotal loss of forest in monetary terms :- Rs. 4861.11 lacs

Lost of project :- Rs. 34110.91 lacs

Land development @ Rs. 7012/Hac.

Un 20% of C.C.A = 7012 x 0.20 x 26990 = Rs. 378.50 lacs

Lotal cost of project Rs. 39350.92 lacs

Divisional Forest Officer

Auran Division Janki
Camp-Wedning ar

PARAMETERS FOR EVALUATION OF BENEFIT, NOTWITHSTANDING LOSS OF FORESTS

		Nature of proposal	
No	Parameters	Medium & major irrigation, hydro electric, large mining & other misc. Projects.	Benefit in monetary terms
	Increase in productivity attributable to the specific project	Net post project benefit as per annex ii — Rs. 5168.59 lacs Net pre project benefit as per annexi (-)Rs. 174.708 lacs Total benefit in one year Rs. 4993.882 lacs Project is Designed for Fifty Years Benefit taken for twenty years only = 20 x 4993.882 = Rs.99877.64 lacs	Rs.99877.64 lacs
2	Benefits to economy	<u>-</u>	Nil
.3	No. Of population benefited	Around one lacs residing in the ares and nearby village get benefitted by the canal.	Nil
4	Employment potential .	Direct employment of local labours from this project @15% of the project cost i.e 34110.91 x 0.15	Rs.5116.64 lacs
5	Cost of acquisition of facility on non-forest land wherever feasible	NA	Nil
6	Loss of (a) agriculture & (b) animal husbandry production due to diversion of forest land	There is no animal husbandry activity.	Nil
1	Cost of rehabilitating the displaced persons as different from	There is no displacement in the proposed area.	Nil

compensatory amounts given for displacement.		
8 Cost of supply of free fuel-wood to workers residing in	Workers are fully paid in cash there will be no facility of free supply of fuel wood to the workers during the construction period.	Nil

total direct and indirect benefit from the project is = 99877.64 lacs + 5116.64 lacs = 104994.28 lacs

Hence benefit cost ratio = Total benefit from the project/ Total cost of the project

= 104994.28 lacs = 2.66

39350.92 lacs

B.C Ratio = 2.66

As the B.C. Ratio is more than 1.00 the project is justified.

Executive engineer

Auranga construction div.panki

Camp - medininagar

Divisional Forest Officer Medaunagar Ferest Division, Medininagar

5

STATEMENT FOR ESTIMATE OF AGRICULTURAL PRODUCE POST IRRIGATION CONDITION FOR AMANAT BARRAGE & AURANGA RIGHT MAIN CANAL SYSTEM FROM PANKI BARRAGE TO R.D. 295.00, CCA 26690 Hect.

of crop as (Name of crop as Cropped area			Receipt	Receipts (Value of farm)	'arm)				Expen	Expenses (Rs.)			Total expenses
per cropping pattern of post irrigation	in ha.	Yield per Total Rate in ha in yield in Rs/MT Quintel lac MT	Total Rate in yield in Rs/MT	Rate in Rs/MT	Total value in Rs. Lacs	Fooder during receipt 3% of col-6	Total receipt in Rs. Lacs	Seed N	Mannure Pestic Human Animal per ha. ides labour / labour / /ha. ha. ha. ha.	Pestic I	Human Animal labour / labour / ha. ha.	Animal labour / ha.	Total /ha.	Lacs
1	2	3	4	5	9	7	∞	6	10	11	12	13	14	15
Peddy 100% of CCA	26990	20	1.35	0009	8097	242.91	8339.91	400	1350	200	2500	2050	6500	1754.35

	15)
	Expenses - (a) Agriculture total value of inputs (Total of col. 15)
	talo
.8	OL)
ofco	uts
otal (fing
R T	lue c
n wo	al va
farn	e tot
Je of	Iltur
svalu	prici
Receipts - Gross value of farm work (total of Col. 8)	(a) A
ts-(- 202
ceip	nen
Re	EX

= Rs. 8339.91 5) = Rs. 1754.35

(b) Fooder expences @ 10% of gross value (col. 6 = Rs. 809.70

= Rs. 202.42 = Rs. 242.91

(C) Depreciation on implements @2.7% of col. 6 = Rs

(d) Share & cost rent @3% of col. 6 (e) Land revenue @2% of col. 6

= Rs. 161.94 Rs. 3,171.32

Net post project benefit R-E = Rs. 5168.59 Lacs

Divisional Forest Officer Medininagar Forest Division, Medininagar

Executive Engineer Auranga Construction Division Jankt

A MET.

E ESTIMATE OF AGRICULTURAL PRODUCE PRE- IRRIGATION CONDITION FOR AMANAT BARRAGE & AURANGA RIGHT MAIN CANAL SYSTEM FROM PANKI BARRAGE TO R.D. 295.00 CCA 26990 Hect.

Expenses (Rs.) Total expenses in inputst in Rs.	Seeds Mannure Pestic Human Animal Total ides labour labour / /ha.	9 10 11 12 13 14	8 400 1000 50 1200 600 3250
m)	Fooder Total receipt 4.5% receipt in of col-6 Rs. Lacs	7 8	30.67 712.198
Receipts (Value of farm)		4	000 681.528
Rec	Yield in Total Rate of Value of Quintal yield in yield /MT yield Rs.		10 11358.8 6000
Cro,	in itc. Yield ir Quintal		11357.3 10

Gresser and farm receipts (total of Col. 8) Exp. Agriculture

= Rs 712.198 Lacs

= Rs 369.16 Lacs

(a)Total value of inputs (Total of col. 15)

(b) Fooder expencex @ 10% of gross value (col. 6

(C) Depreciation on implements @2.7% of col. 6

(d) Share & cash rent @5% of col. 6 (e) Land revenue @2% of col. 6

= Rs 34.07 Lacs = Rs 102.23 Lacs = Rs 13.63 Lacs = Rs 18.40 Lacs

Rs 537.49 Lacs

Net pre- project benefit = \bar{R} - \bar{E} = \bar{R} S 174.708 Lacs

Auranga Construction Executive Engineer Camp-Ivicon magar Divisien Janki

> Medininagar Forest Division, Medininagar Divisional Forest Officer

6

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13



GOVERNMENT OF JHARKHAND

Proposal for transfer of forest land For Amanat Barrage Scheme

In Palamau District (Jharkhand)

Proposal No:- FP/JH/IRRIG/15780/2015

FORM 'A'
PART - I

なるかかかかかか

Executive Engineer
Auranga Construction Division Panki,

APPENDIX (See Rule – 6) FORM –'A'

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

PART – I
(To be filled up by user agency)

1-PROJECT DETAILS :-

(i) •	Short narrative ofthe proposal and Project/scheme for which the forest land is required	:-	The project comprises of the following – (1) Amanat Barrage at Panki (2) Right Main Canal- 90.00 Km. (3) Distribution system – 57.95 Km
			Amanat Barrage Scheme is component of Auranga Reservoir Scheme. Amanat Barrage on river Amanat is located at Panki in Palamau district. The canal system from the Barrage will provide irrigation to about 26,990 Ha. of Land in Palamau district of Jharkhand. The area is chronically drought prone and falls within the range of retreating southwest monsoon. Hence the rainfall is very scanty and capricious in distribution. The average annual rainfall of the area is 1244.44 mm of wich major portion (86.5%) is received during the months of June to September. Proposed Forest land falls in the alignment of Right Main Canal and its distribution system. No Forest land is involved in the construction of Amanat Barrage & Distribution System.
(it)	Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map.	:=	Toposheet showing alignment of the project is being enclosed. Anexure 1
(iii)	Cost of Project	:-	Rs 34110.91 Lacs
(iv)	Justification , for location the forest area.	:-	The canal is essentially a contour canal region hence to reduce the cost of the project & to cover the maximum culturable command the alignment of canal has been kept to follow the contour. Several alternatives had been examined & it was found that the present alignment is most suitable & economical.

(v)	Cost benefit analysis (to be enclosed) B.C Ratio	:-	A copy is being enclosed marked as ANNEXURE :- 2	
(31)	Employment likely to be generated	÷.	Though there will be no permanent employment but more than 9184726 man days of labour will get employment during construction work in the project. The area is drought prone and hence this will improve the financial position of farmers and labourers as well as it will add in stabilization of national economy.	
	Purpose – wise break – up of the total land required	:=	Component wise breakup S.no Component Forest Land Non-Forest Land(Ha.)	
1.	Details of displacement of people due to the project, if any	;- 10	Nil	
(i)	Number of families	:-	Nil	
(ii)	Number of Scheduled castes/Scheduled Tribe Families.	:-	Nil	
(iii)	Rehabilitation Plan to be enclosed)	:-	Not required	
4.	Whether clearance under environment (Protection) Act. 1986 required? Yes/No.		Yes Clearance certificate attached ANNEXURE - 3	
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		Undertaking is being attached- ANNEXURE 4	
	Zone, etc. as per the scheme prepared by the State government (undertaking to be enclosed)			
6.	Details of certificates/Documents enclosed as required		(i) Schedule of forest & non forest land ANNEXURE 5 (ii) Schedule of non forest land to be	

transfered to forest deptt. For compensators under the instruction. All aforestation. required ANNEXURE:- 6 ('ertificate/Document are Enumeration list of trees to be felled in the (iii) in enclosed. alignment. ANNEXURE:- 7 Index Map of Project ANNEXURE:- 8 (iv) Topo sheet showing Segment of Forest land (v) to be diverted. ANNEXURE: 9 Geo-refrence map of Forest land to be (vi) diverted ANNEXURE: - 10 Topo sheet showing Compensatory land. (vii) ANNEXURE:- 11 (viii) Geo-reference map of Compensatory land ANNEXURE :- 12 Inspection Report of the Conservator of (ix) Territorial Circle, Medininagar .ANNEXURE:- 13 Joint Inspection done by Executive (x) Engineer Auranga Construction Division Panki & D.F.O Medininagar Forest. Division, Medininagar, On dt. 18- Feb-2015. Annexure- 14 Copy of Documentary evidence in Support (xi) of FRA ACT 2006. Annexure- 15 Cadastral sheets of the revenue villages showing alignment of canal and forest boundaries are being enclosed. ANNEXURE :-16

Date: Place: 12.8.2016 Medinineger

Luev 12/8/16

(SATISH CHANDRA VERMA)

Executive Engineer Auranga Construction Division, Panki, Camp- medininagar, Palamu

Executive Engineer Auranga Construction Fire wanki Cathy incummagar

Divisional Forest Officer

Mediumagar Forest Division, Medininagas

LAND SHEDULE.

Village wise Breakup

Sl.No.	Village	Forest Land in Hec.	Non Forest Land in Hed
1	Karma		3.553
2	Gargaon		5.722
3	Ambawar		6.884
4	Harna		9.745
5	Chandrapura		14.314
6	Kalwhua		34.019
7	Nuru	The state of the s	12.950
8	Lukwa		16.317
9	Haldi		24.682
10	Haldi Minahi	X v t st	16.949
11	Gongo		8.142
12	Kapurfhuta		3.092
13	Khera		11.376
14	Binayka	a to a significant of the signif	1.161
15	Udaypura		16.932
16	Gulalpur		5.471
17	Selari	20 00 00 00 00 00 00 00 00 00 00 00 00 0	5.953
18	Bagla		5.269
19	Chhatarpur		14.253
20	Tandwa		2.193
21	Pashar		3.335
22	Kasmar	W. S.	3.634
23	Baliyari		2.881
24	Sonpura		1.473
25	Dhobdiha		2.501
26	Nawa		4.803
27	Kichdiya		5.399
28	Dundu		6.309
29	Sildiliya khurd	6.51	0.000
30	Sildiliya kala	2.39	3.693
31	Gorwatand	10.8	2.424
32	Manjhgawan		1.797
33	Bajalpur	8.22	3.877
34	Panchrukhiya	7.85	0.000
35	Lalgara	3.53	9.118
36	Dhuma	15.38	0.000
37	Sewti	5.91	11.441

11			
-38	Saraidih	6.87	4.342
39	Gogda		2.200
40	Tirondha		2.553
41	Chilhoi	3.85	3.267
42	Bhalugari	7.61	0.000
43	Tariyan	8.18	4.067
44	Sonpurwa	5.69	11.509
45	Kanaudi	8.54	0.000
46	Boradah	7.2	0.000
47	Jagodih		5.066
48	Angra		10.101
49	Kararkala	0.49	10.590
50	Chetma	12.90	15.107
51	Imlikhas	5.93	14.249
52	Boradoho		12.140
53	Panchkedia		17.080
54	Sutha		2.347
55	Aaredan		5.791
56	Pandaypura		1.163
57	Huri/Berseta		2.614
	kumhawa		2.088
58	Basdewa		0.757
59	Dharo		0.979
60		N 3 8	0.319
61	Mathfhurhi		0.546
62	Barhakurwa		1.542
63	Bedani khurd		2.493
64	Mahri		1.341
65	Nawadih		1.291
66	Borkoma	Make a service of	0.125
67	Delha	8 1 1 2 1	0.374
68	Baghi	, , , , , , , , , , , , , , , , , , ,	1.174
69	Nawadih		
70	Bisunpur		1.930
71	Bhalogari	× × × × × × × × × × × × × × × × × × ×	0.992
72	Haraiya		0.508
73	Kalapahad		0.417
74	Khamhi	* 1	1.448
75	Dandai		1.052
76	Sahdeva		0.741
77	Loinga		3.545

• 78	Angra		3.059
79	Rajhara	" Far and Maria	4.298
80	Dhangaon	* X X X X X X X X X X X X X X X X X X X	0.392
81	Kamal kediya		1.983
	Total	127.85	439.242

Executiv 174916

Aurang.

Division Janki

Camp-Medininaga

Divisional Forest Officer Medininagar Forest Olivision, Medininayar

Part II

(To be filled by the concerned Deputy Conservator of Forest)

State serial No. Proposal: JH-036/2015

1. Location of the project/Scheme:

(I) State/Union Territory

Jharkhand

(II) District

- Palamu

(III) Forest Division

Medininagar

(iv) Area of forest land proposed for diversion (in ha)

127.85

(v) Legal status of forest:-

S.No	Division	Forest Land (ha)	Leagal Status
1	Medininagar	127.85	Jungle - jhari land

(vi) Density of vegetation:-

S. No	Area (in ha.)	Density	Eco-Class
1	127.85	0.3	Eco 4

(vII) Species-wise (scientific names) and diameter class-wise enumeration of trees (to be enclosed. In case of irrigation/hydel projects enumeration at FRL, FRL-2 meter & FRL-4 Meter also to be enclosed.)- Enclosed

(viii) Brief note on vulnerability of the forest area to erosion: -Yes, Some Portion of the Forest land of the are Valnerable.

(IX) Approximate distance of proposed site for diversion from boundry of forest (in Km):

(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 be annexed). : No

(XI) Whether any rare/endangered/unique species of flora and fauna found in the area –

(XII) Whether any protected archaeological/heritage site/defence establishment or any other important monument is located in the area.

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. Yes

9. Whether any work in violation of the Act has been carried out.

No

10. Details of compensatory afforestation scheme:

(i) Details of non forest area/degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of Enclosed each patch. (ii) Map showing non-forest/degarded forest area identified for compensatory afforestation and adjoining forest boundaries. Enclosed (iii) Detailed compensatory afforestation scheme including species to be

	S No.	Documents	Remarks
--	-------	-----------	---------

planted implementing agency time schedule cost structure etc.

(iv) Total financial outlay for compensatory afforestation scheme.

(v) Certifiactes from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (To be signed by the concerned deputy Conservator of Foests).

11. Site inspection report of the DCF (to be enclosed) especially highlightting facts Enclosed asked in col. 7 (xi, xii), 8 and 9 above.

Division/ district profile: 12

> Geographical area of the district. (i)

797580 ha

Forest area of the district. (ii)

151783.95 ha

- Total forest area diverted since 1980 with number of cases. 53.7929 ha (iii)
- Total compensatory afforestation stipulated in the district/division since (iv) 1980 on
 - (a) forest land including penal compensatory afforestation, 258.226 ha

(b) non forest land.

Progress of compensatory afforestation as on (date) (v)

(a) forest land

1475 ha

(b) non forest land.

0.00

13. Specific recommendation of the DCF for acceptance or otherwise of the proposal with reasons: Plamau is drought prone area of Jharkhand state. Hence Amanat Barrage is a dream project of the Palamau. About 26990 ha land will be irrigated after completion of the project. There of proposal of diversion of Forest land may be accepted.

Signature

Name

Official Seal

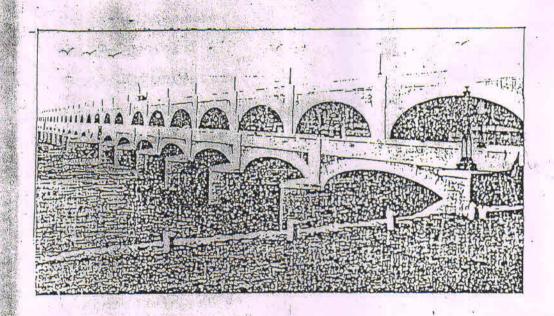
Divisional Forest Officer

Andronagar Forest Division, Medininagar

Date :-Place:-



बिहार सरकार जल संसाधन विभाग



औरंगा जलाश्य योजना vol-॥

UNIT-1

DAM & APPURTENENT WORKS

फरवरी 1989

अधीक्षण अभियंता

क्षांगा निर्माण अंजन रानरनगंज

मुरुय अभियन्ता (विचार्ट) राज्यसम्ब

AURANGA RESERVCIR 1 RCJLCT V 0 L-2

CONTENTS

Sl.no	.Particulars	lan	s from to	•
1.	General report and salient features		i to xi	
2.	General abstract of Cost		1-3	
3.	A-Preliminary		4.24	
4.	B-Land		25.45	
5.	C-Works		46-70	
6.	K-Building		71-132	
7.	M-Plantation		1 33 – 1 35	
8.	O-Miscellanious		135-146	
9.	P-Maintenance		147-149	
10.	Q-Special T & P		150-154.	
11-	R-Communication.		155-162	-
12'.	X-Environmental and Ecology.	m.	163-182	
13.	Y-Losses on stock		183-164	
14.	Establishment charges		185-166	
15.	Ordinary Tools and plants .	o.	167-169	
16.	Suspense		190-191	
17.	Reciept and recoveries on capital accounts		192-194	
18.	Indirect charges		195-197.	

--x -

Executive Engineer
Auranga: Censtruction
Director Panki
Campeleumnagar

Days and Fores

Divisional Forest Officer
Medininagar Ferest Division, Medininagar

X- ENVIRONMENT AND ECOLOGY

REPORT

The provision for the sub-head X-Environment and Ecology in this revised estimate has been made on the basis of important items indicated in the broad guide lines for preparation of project estimate by Central Water Commission as also on the basis of necessary safeguards suggested by the department of Environment and Ecology, Govt. of India while issuing environmental clearance to this project in its letter UC.NO 3/1/78-HCT/ENV dated 24.1.79 (copy enclosed as annexure 2.4.10.5.2).

The items included in this estimate are compensatory afforcstation, re-storation of land in construction areas, Centrol of a quatic weeds in submerged areas, enforcement of anti-poaching laws, measures to prevent forest fires, public health measures, treatment of catchment areas etc.

The provision in the estimate is based on sample estimate worked out on the basis of suggestion for North Koel Fraject.

The provision for compensatory afforestation has been made as per Firest(conservation) Act 1980 and the cost of plantation on the degraded forest has been adopted as per letter no 796 dated 21.2.81(appended as appendix.2.4.2.4.8)

There is no provision for this work in the emetioned estimate(First revised estimate based on 1982 achorale).

Estimating Officer Tumbagarh

Executive Engineer Auranga Const.Division Auranga Const.Division, Tumbagarh

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Appendix 2.4.10.5.2

ANNEXURE

Department of Sec. & Technology

(NCPEC) NATIONAL COMMITTEE OF ENVIRONMENTAL PLANNING)

The Project has been examined to the MEEC on the basis of details evilable as well as the report of the export.

Team that visited the Project sit, the Environmental Approval Committee has cleared this project provided that the following safeguards are effectively implemented:

- sites, labour camp, approach roads to the dam site borrow pits should be confined to the right bank of the Auranga river ie. in the area between Daltonganj Ranchi road and the Auranga river. The Left bank of the river adjoining the There Project area should not be disturbed. Use of any of the existing roads of the sanctuary should not be permitted for construction operation, It is kennt: learnt that these safeguards. Were discussed by the export team during the visit and are acceptable to the project authorities: -2: No human settlements should be allowed to reamin on the left bank of Auranga Dam. This would ensure that the buffer zone adjoing the lake would provide free access to the water for wild life.
- 3. The impact of submergence caused by Auranga Dam has to be considered alongwith the submergence to be caused by Kutku dam over North Koel River for which infrtructural development has already been completed. Kutku Dam will submerge a large chunk of for forest in the core as well as buffer area of Project Tiger. It is desirable, therefore, that that water impoundament of the Kutku dam and the forest on its puriphery should be included in the Palamau National Park.
- 4. No reserve forest area should be released for rehabilitation or other purposes in view of the loss of forest due to submergence. Intensive social forestry should also be under taken to off-set the loss of forests in submergence.

Compensatory aforestation should be undertakn by the forest department to off-set the loss of forest by submergence. AT least 2000 acres of irrigated plantations should be raised in the command area and along channel banks for which adequate water should be provided by the irrigation department.

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Divisional Forest Officer Medininagar Forest Division, Medininagar

- forest hole fresuanted by a large number of animals. A small contour channel about 2 m wide and 2 m deep, from the reservoir area. This channel would feed & series of permanent small tanks with earthen bunds within the National Park which can be created by the forest department. This would ensure perenial water supply and would contain the game with the area. It may also help the growth of evergreen species and render the forest less decidusus in summer. The submersion contours should be clearly demarcated & the vegetation on two or three & islands in the reservoir above the FRL, should at the cleared so that they may be developed as brieds sanctries.
- 7. The health hazards like incidence of Malaria have not been considered. Fix Adequate provision should therefore, be made for anti-malaria measures.
- 8. Fuel depots should be set up by the forest department to provide fuel wood, free of cost, to the labour force, so that indisoriminate felling of trees may be prevented. Adequate provision in the project estimates should be made to meet this cost.
- 9. A nti-poaching measures should be strictly enforced by the project cost, for effective enforcement of these measures.
- 10. A monitoring Group should be by the State Govt. in consultation with the NCEPC so that the suggested safeguards are implemental effectively and follow up action taken as and when necessary.

It is also suggested that participation of Project tiger authorities in the Monitoring Group should be ensured.

These safeguards are in addition to these suggested by the Project Tiger Authorities.

Sd/-

(Dr. S. Maudgal) 24.1.1979 Member Secretary, Environmental Appraisal Committee.

Department of Agriculture (Sri S.P.Srivastava, I.G.F.) Krisi Bhawan. Dr. Rajendra Pd. Road. New Delhi.

Department of Science and Technology U.C.Nn. 3/1/78-HCT/ENV

Dt. 24.1.1979

Executive Engineer

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Divisional Forest Officer Mediumagar Ferest Division, Mediumagar

Summary of girth wise and speciwise tree details:-

S	Scientific	Local Name	(31-60) cm	(61- 90)	(91- 120)	(121- 150)	(>150) cm.	Total
No.	Name		CITI	cm	cm	cm.	Ciri.	
1	Sal	sal	90	14	14	6		124
2	Terminalia Tomentosa	Assan	5		5	1		11
3	Bombax Ceiba	Semal			1			1
4	Holoptelia integrifolia	Chilbil			1	-		1
5	Acacia Catechu	Khair	586					586
6	Lagistromia Lanceolata	Ginjan			1	1		2
7	Boswellia Serrata	Salai			1	5		6
8	Teak	Sagwan	4					4
9	Gmelin Arborea	Gamhar	1			ra: II		1
10	Adena Cardifolia	Karam	1					1
11	Eucalyptus	Eucalyptus	10					-10
12	Misc. Species		40		26	18	200	er ur re
13	Others	Pols	3608					

FRL NOT APPLICABLE

Species-wise local/scientific names and girth-wise enumeration of trees at FRL

S No.	Scientific Name	Local Name	(31-	(61-90) cm	(91- 120)	(121-	(>150) cm.	Total
10.	Traine	1141111	cm		cm	cm.		

Species-wise local/scientific names and girth-wise enumeration of trees at FRL-2

S No.	Scientific Name	Local Name	(31- 60) cm	(61-90) cm	(91- 120) cm	(121- 150) cm.	(>150) cm.	Total
				NIL				

Species-wise local/scientific names and girth-wise enumeration of trees at FRL-4

 Scientific Name	Local Name	(31- 60)	(61-90) cm	(91- 120)	(121- 150)	(>150) cm.	Total
		cm		cm	cm.		

Divisional Forest Officer
Modannagar Forest Division, Medininagar

Executive Engineer
Auranga Construction
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Details of forest land calculation

51,	Village	width(m)	length(m)	Ш
1	Sildiliya Khurd	91.46	712.000	Ha.
2	Sildiliya Kala	91.46	261.440	6.51
3_	Gorwatand	91.46	1181.400	2.39
4	Bajalpur	91.46	, 899.180	10.8
b	Panchrukhiya	91.46	858.704	8.22
(1	Lalgar	91.46	386.143	7.85 3.53
/	Dhuma	91.46	1682,407	15.38
Н	Sewati	91.46	646.490	5.91
1	Saraidih	91.46	751.503	6.87
10	Chilhoi	91.46	421.146	3.85
1	Bhalugari	91.46	832.450	7.61
2	Tariyan	91.46	894.801	8.18
3	Sonpurwa	91.46	622.423	5.69
	Kanaudi	91.46	934.182	8.54
-	Boradah	91.46	787.603	7.2
-	Kararkala	91.46	536.010	0.49
	Chetma	91.46	1411.121	12.9
8	Imlikhas	91.46	648.676	5.93
2.6.			TOTAL	127.85

Executine Engineer

Auranga Const. Div. Panki

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Executive Engineer Auranga Construction Divisier -anki

Camp-Medininagar

Divisional Forest Officer Medininagar Ferest Division, Medininagar

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18	Imlikhas	91.46	648.676	5.93
23.00	Charles Decreased in the Charles of the Charles		TOTAL	127.85

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Divisional Forest Officer

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Executine Engineer
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