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25/10/24



OFFICE OF THE REGIONAL CHIEF CONSERVATOR OF FORESTS, BERHAMPUR CIRCLE,
BERHAMPUR, COURTPETA SQUARE, GANJAM-760004

Telephone: 0680-2281694, E. Mail: rccf.berhampur@odisha.gov.in.

Memo No. 4037 /4F- 144/2024.

Berhampur, Dated 25th October, 2024.

To

The Chief Conservator Forests (Nodal),
O/o the Principal Chief Conservator of Forests & HoFF,
Odisha, Bhubaneswar.

Sub: -

Diversion of 9.195 ha of forest land coming under Phulbani Forest
Diversion for improvement of forest road from Samapaju to
Panishal under inter District of Kandhamal by Excutive Engineer,
Rural Works Division, Boudh – Gol observation regarding.

Ref: -

Your memo No. 11188 dated 21.05.2024

In inviting a kind reference to the memo no. cited above on the
captioned subject, it is to inform you that the Divisional Forest Officer, Phulbani Division has
submitted the compliance report in the aforesaid matter vide his Memo No.5777 dated
17.10.2024 which is transmitting herewith for favour of kind information and necessary
action.

Encl: As above: .


Regional Chief Conservator of Forests,
Berhampur Circle.

Memo No. 4038 dated 25-10-24

Copy forwarded to the Divisional Forest Officer, Phulbani Division for
information and necessary action with reference to his Memo No. 5776 dated 17.10.2024.


Regional Chief Conservator of Forests,
Berhampur Circle.

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4F
18/10/24

OFFICE OF THE DIVISIONAL FOREST OFFICER, PHULBANI FOREST DIVISION
Phone – 06842-253617(Off), 06842-253707(Res), 06842-255266(FAX), Cell-9437065299
Email:dfo_phulbani@yahoo.co.in

Memo No. 5776 / 4F-24/ Dated. 17.10.2024



To
The Regional Chief Conservator of Forests,
Berhampur Circle, Berhampur.

Sub: **Diversion of 9.195 ha. of Forest land coming under Phulbani Forest Division for improvement of Forest road from Samapaju to Panisal under inter District of Kandhamal by Executive Engineer, Rural Works Division, Boudh- GoI observation regarding.**

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Ref:-
i) Letter No 11188 9F(ROAD)- 372/2023 dated 31.05.2024 of Chief Conservator of Forests (Nodal) O/o the PCCF & HoFF, Odisha, Bhubaneswar.
ii) Letter No. 5-ORC628/2024-BHU dated 13.05.2024 of Dy. Inspector General of Forests (C).
iii) Memo No 3173 dt 05.10.2024 of this office .

With reference to above captioned subject, the compliance as received by the User Agency i.e Executive Engineer, Rural works Division , Boudh on dated 14.10.2024 is enclosed herewith.

This is favour of your kind information and necessary action.

Encl: As above

Divisional Forest Officer,
Phulbani Forest Division
17/10/24

Memo No. 5777 // Dated. 17-10-2024

Copy forwarded to the Chief Conservator of Forests, & (Nodal) O/o the principal Chief Conservator of Forests, and HoFF Odisha, Bhubaneswar for kind information and necessary action.

Divisional Forest Officer,
Phulbani Forest Division
17/10/24

Memo No. 5778 // Dated. 17.10.2024

Copy forwarded to the Collector cum District Magistrate, Kandhamal, Phulbani for kind information.

Divisional Forest Officer,
Phulbani Forest Division
17/10/24

Memo No. 5779 // Dated. 17.10.2024

Copy forwarded to the Executive Engineer, Rural Works Division, Boudh for kind information and necessary action.

Divisional Forest Officer,
Phulbani Forest Division
18/10/24

GOVERNMENT OF ODISHA
OFFICE OF THE SUPERINTENDING ENGINEER
RURAL WORKS DIVISION, BOUDH

Letter No. 3234//RWDB, Dated the 29/9/24



To

The Divisional Forest Officer,
Phulbani Forest Division.

Sub: Proposal for diversion of 22.721 Ac. (9.195 ha) of forest land in Phulbani Forest Division for the work improvement of road from Samapaju to Panishal Road under Inter District of Kandhamal.

Ref: 1. REC Meeting held on dated 26.04.2024 at the O/o MoEF & CC, RO, GoI, Bhubaneswar.
2. Your office Letter No. 4887 on Dated 29.08.2024.

Dear Sir,

With reference to subject cited above, we are compiled herewith the points raised by the REC Committee members during the REC meeting of the diversion proposal. Following table is represents the compliance status.

Sl. No.	Points Raised by REC Members	Compliance by UA
1.	The Committee desired to know whether any traffic study has been done for the instant Road Project.	Yes, the traffic study has been done on dated 20.06.2020 to 22.06.2020 which is also mentioned in the approved DPR.
2.	Whether strengthening of the existing road can be done without widening the RoW from 3.5 mtrs to 7 mtrs?	No, as per the IRC safety point of view 7 mtrs of RoW is required.

Hence, It is requesting you to process the compliance for onward transmission. This is for your information & necessary action at your end.

Yours faithfully

Executive Engineer,
Rural Works Division,
Boudh

Memo No. 3235//RWDB//Date 29/9/24

Copy to the Asst. Executive Engineer, RW Sub-Division, Boudh for information and necessary action and he is also directed to pursue the matter for early action.

Executive Engineer,
Rural Works Division,
Boudh

5.0 TRAFFIC SURVEY

5.1 General

In the present scenario of new connectivity road, 3 day, 24 hr traffic volume count has been conducted on the already completed. Samapaju to Panisal Road Road in the vicinity of the project road. The Classified Volume Count survey has been carried out in accordance with the requirements of the TOR and relevant codes (IRC: SP: 19-2001, IRC: SP: 20, IRC: SP: 72-2007). The surveys have been carried out by trained enumerators manually under the monitoring of Engineering Supervisor. Traffic count location with the similar road and project road are enclosed.

5.2 Traffic Data and Analysis

The traffic count done was classified into different vehicle category as given below:

- Motorized vehicle comprising of light commercial vehicle, medium commercial vehicle, heavy commercial vehicle, trucks, buses, agricultural tractors with trailers, car, jeep, two wheelers etc.

- Non- motorized vehicles comprising of cycle, rickshaw, cycle van, animal drawn vehicle etc.

The number of laden and un-laden commercial vehicles was recorded during the traffic counts. Traffic volume count for this project road was done during peak season. The seasonal variation Once (for a period of 75 days from 1st November to 15th January) is adopted based on local enquiry.

Average of 3 day traffic data is presented in Table 5.1.

Table 5.1 Average Daily Traffic at junction of 6.481 Km. & Proposed road (both ways).

Sl. No.	Type of Vehicle	Day-1	Day-2	Day-3	Average
		20.06.20	21.06.20	22.06.20	
1.	Car, Jeep, Van	40	39	29	36
2.	Auto Rickshaw	0	0	0	0
3.	Scooters/Motorbikes	55	40	36	44
4.	Bus / Minibus	5	9	3	6
5.	Trucks	15	14	14	14
6.	Tractors	13	17	15	15
7.	Cycles	177	151	166	165
8.	Cycle Rickshaw / Hand Cart	4	5	4	4
9.	Horse cart / Bullock Cart	0	0	0	0
10.	Pedestrian	0	0	0	0
	Total commercial vehicle per day (CPVD)	33	40	32	35
	Total motorised vehicle per day				115
	Total non-motorised vehicle per day				169

a.	Traffic volume and mix do not vary along the Road.	Yes		No	
b.	Traffic volume and mix vary along the Road	Yes		No	
c.	Traffic volume and mix will vary along the road in the Future	Yes	✓	No	
d.	There is a potential for through traffic using the Road	Yes	✓	No	
e.	Percentage of loaded Vehicle.	Yes	30%	No	

5.3 Traffic Growth Rate and forecast

An average annual growth rate of 6% over the design life has been adopted.

Table 5.2 Average Annual Daily Traffic at junction of 6.481 Km. & Proposed road (both ways).

Sl. No	Type of Vehicle	ADT	AADT	Growth Rate
1.	Car, Jeep, Van	36	318	6%
2.	Auto Rickshaw	0		
3.	Scooters/Motorbikes	44		6%
4.	Bus / Minibus	6		
5.	Trucks	14		6%
6.	Tractors	15		6%
7.	Cycles	165		6%
8.	Cycle Rickshaw / Hand Cart	4		
9.	Horse cart / Bullock Cart	0		6%
10.	Pedestrian	0		
Total commercial vehicle per day (cvpd)=		35		6%
Total motorised vehicle per day=		115		6%
Total non-motorised vehicle per day=		169		6%
ESAL=		234777		

FIELD DATA SHEET FOR TRAFFIC CENSUS

Name of Road : Samapaju to Panisal Road
 Location of Road : 6.481 Km
 District : Boudh
 State : Odisha

Annexure 5.3(a)
(See Para 5.6)

Date- 20.06.2020

Hour	Cars/Jeeps Three wheelers	Motorised two- wheelers	Mini bus/ Pick up / Vans	Trucks			Agricultural Tractors- Trailers			Vehicle Class				Cycles Rickshaw	Animal Drawn Vehicle	Remarks Season/Post Harvest / Monsoon Weather	
				Laden	Unladen	Over- Loaded	Laden	Unladen	Over- Loaded	Laden	Unladen	Over- Loaded	SWC				Non-Tyred
From 5.00Hrs. To 9.00 Hrs.	10	12	0	4	1	0	1	2	0	0	0	1	0	0	0		
From 9.00 Hrs. To 13.00Hrs.	9	10	0	1	2	0	2	1	0	0	0	1	0	0	0		
From 13.00 Hrs. To 17.00Hrs.	11	15	0	2	1	0	2	3	0	0	0	1	0	0	0		
From 17.00Hrs. To 21.00 Hrs.	10	18	0	2	2	0	1	1	0	1	1	1	0	0	0		
Total for day	40	55	0	9	6	0	6	7	0	1	4	4	0	177	4	0	Post Harvest

FIELD DATA SHEET FOR TRAFFIC CENSUS

Name of Road : Samapaju to Panisal Road

Annexure 5.3(a)

Location of Road : 6.481 Km

(See Para 5.6)

District : Boudh

Date:- 21.06.2020

State : Odisha

Hour	Cats/jeeps Three wheelers	Motorised two- wheelers	Mini bus / Pick up / Vans	Trucks			Agricultural Tractors-Trailers			Buses			Cycles Rikshaw	Animal Drawn Vehicle	Remarks Season, Post Harvest / Monsoon Weather:	
				Laden	Unladen	Over Loaded	Laden	Unladen	Over Loaded	Laden	Unladen	Over Loaded				
From 5.00 Hrs. To 9.00 Hrs.	10	11	0	1	1	0	2	2	0	1	2	0	42	0	0	Post Harvest
From 9.00 Hrs. To 13.00 Hrs.	12	8	0	2	2	2	2	2	0	1	1	0	38	0	0	
From 13.00 Hrs. To 17.00 Hrs.	9	10	0	3	2	4	2	2	0	1	1	0	32	0	0	
From 17.00 Hrs. To 21.00 Hrs.	8	11	0	1	2	0	3	2	0	0	2	0	39	0	0	
Total for day	39	40	0	7	7	6	9	8	0	3	6	0	151	0	0	

SUMMARY OF 3 DAY COUNTS

Name of Road : Sanapaju to Panisat Road
 Location of Road: 6.481 Km
 District : Boudh
 State : Odisha

Day	Vehicle Class										Total										
	Car, Jeeps, Three-Wheelers		Motorised two-wheelers		Mini bus / Pick up / Vans		Trucks			Agricultural Tractors - Trailers			Buses		Cycles		Cycle Rickshaw		Automated/Drawn Vehicles (SWC)		
	Laden	Unladen	O-loaded	Laden	Unladen	O-loaded	Laden	Unladen	O-loaded	Laden		Unladen	O-loaded	Laden	Unladen	O-loaded	Laden	Unladen	SWC	Num. Tyred	SWC
Day 1	40	0	0	55	0	0	9	6	0	6	7	0	1	4	0	4	0	0	0	0	
Day 2	39	0	0	40	0	0	7	7	6	9	8	0	3	6	0	5	0	0	0	0	
Day 3	29	0	0	36	0	0	9	5	0	10	5	0	3	0	0	166	4	0	0	0	
Total:	108	0	0	131	0	0	25	18	6	25	20	0	7	10	0	494	13	0	0	0	
Average Daily Traffic	36	0	0	44	0	0	8	6	2	8	7	0	2	3	0	165	4	0	0	0	

ADT Total (T) =	285
No of harvesting season (n) =	1
No of times traffic in peak period than in lean period	n ₁
Value of t (assumed in days) =	t ₁
Design Traffic AADT = $T + (0.6 n t) / 365$ =	318
Before opening of road to traffic AADT i.e. after 1 year (2nd year) @6% growth rate =	357

t ₁	n ₁	t ₂	n ₂
70	1	0	0

Accordingly Laden Heavy Commercial Vehicles =	13
Unladen Heavy Commercial Vehicles =	11
Overloaded Heavy Commercial Vehicles =	3

CVPD for Design (taking the traffic at the time of opening) = 46

Cumulative ESAL applications per day as per V.D.F. values in para 3.4.4 of SP-72-2007

Laden HCV =	33.54
Unladen HCV =	3.41
Overloaded HCV =	8.58
Laden MCV =	3.10
Unladen MCV =	0.17
Overloaded MCV =	0.00
Total (T₀) =	48.80

Cumulative ESAL applications over 10 year @6% growth rate = $T_0 \times 4811 \times L$ (ESAL) =

234777

Laden Medium Commercial Vehicles =	10
Unladen Medium Commercial Vehicles =	9
Overloaded Medium Commercial Vehicles =	0

Values of V.D.F.		
Vehicle	Laden	Unladen
HCV	2.58	0.31
MCV	0.31	0.019
	O-Loaded	
		2.86
		0.344

16/12/20
 J.E.
 16/12/20