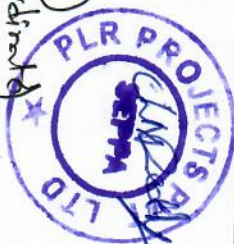


**POWER GRID CORPORATION OF INDIA LIMITED**  
**PLR PROJECTS PVT LTD JV WITH RCC INFRA LIMITED**  
**NAME OF THE LINE: 132kv S/C (D/C Tower) Sub Station SEPPA to Sub station RILLO (Pakkekesang).**  
**COMPARATIVE STATEMENT OF ALTERNATIVE ROUTES**

SL NO	DESCRIPTION	ALTERNATIVE ROUTE NO I	ALTERNATIVE ROUTE NO II	ALTERNATIVE ROUTE NO III
1	Route particulars	Bee Line Length(km) = 27.66 KM		
	(i) Length(km)	35.143	41.404	41.369
	(ii) No. of Angle points	143	164	160
	(iii) Terrain	70% of the line is in almost hilly terrain of altitude 500-1800m approx. and the rest 30% of the line comes under plain terrain of altitude 700-1100m approx.	90% of the line is in almost hilly terrain of altitude 500-2000m approx. and the rest 10% of the line comes under plain terrain of altitude 700-1100m approx	90% of the line is in almost hilly terrain of altitude 500-2000m approx. and the rest 10% of the line comes under plain terrain of altitude 700-1100m approx.
2	Environmental Impact			
	(i) Town limits	The line is routed avoiding towns. Due to scattered nature of settlements, the line has to be routed close to certain major villages lower Pativa, Lamdong, Veo, Pakro, Yathe, Passa, Rillo h and Pakke kessang.	The line is routed avoiding towns. Due to scattered nature of settlements, the line has to be routed close to certain major villages Seppa and Pakke kessang.	The line is routed avoiding towns. Due to scattered nature of settlements, the line has to be routed close to certain major villages Seppa and Pakke kessang.
	(ii) Houses within R.O.W	R.O.W is almost free from houses etc.	R.O.W is almost free from houses etc.	R.O.W is almost free from houses etc.
	(iii) Tree/Crop and its extent of damage.	Damages to crops in wet cultivation area is marginally low due less cultivated area. Even though the whole line route comes under Tiger forest and Reserve forest part of Pakke kessang site, a stretch of 5 kms has paddy field by private parties.	Damages to crops in wet cultivation area is marginally low due less cultivated area. Even though the whole line route comes under Tiger forest and Reserve forest part of Pakke kessang site, a stretch of 5 kms has paddy field by private parties.	The line comes under Tiger and Reserve forest.
	(iv) Forest involvement			
	(a) Length of forest area	100 percent	100 percent	100 percent
	(b) Type of forest	Seppa forest div. and Khellong Reserve Forest (Pakke TS)	Seppa forest div. and Khellong Reserve Forest (Pakke TS)	Seppa forest div. and Khellong Reserve Forest (Pakke TS)
	@ Density of forest	Low dense	Moderately dense	Highly dense

*Syam*  
(Surveyor)

P.M. du  
(P-Monika)



*Symil*  
S.S. Chatterjee  
Manager (A.P.C. 180)

ए.प्र.प्र. वी.पी. & सी.एम. (A.P.C. 180)  
गुवाहाटी, असम (POWERGRID, SEPPA)

*[Signature]*  
Siddhanta Bhattacharya (P)  
Seppa Area In-charge Engineer  
Chief of Section, Seppa 14.05

	d) Type of Fauna & Flora	Flora: Teak, Holong, Wild banana, Bamboo etc.	Flora: Teak, sal, Holong, Wild banana, Bamboo etc.	Flora: Teak, sal, Holong, Wild banana, Bamboo etc.
	e) Endangered Species if any.	Nil	Nil	Nil
	f) Historical/cultural monuments	Nil	Nil	Nil
	g) Details of Tribal areas if any	Nil	Nil	Nil
3	<b>Details of Crossing</b>			
	a) Nos. of Railway Crossing	Nil	Nil	Nil
	b) Nos. of Major Road Crossing			
	i) National Highways	6	8	7
	ii) State Highways			
	c) Nos. of River Crossing including major stream			
	i) Major River	2	3	3
	ii) Small River/Stream	4	8	11
	d) Nos power line crossing:			
	i) 765 KV T/L	Nil	Nil	Nil
	ii) 500 KV T/L	Nil	Nil	Nil
	iii) 400 KV T/L	Nil	Nil	Nil
	iv) 220 KV T/L	Nil	Nil	Nil
	v) 132 KV T/L	Nil	Nil	Nil
	vi) 33 KV T/L	Nil	Nil	Nil

Sumit S.S. Chaturvedi

Examination of  
Seymour Fish in the  
Dept. of Science, Sydney



# COMPARATIVE STATEMENT OF ALTERNATIVE ROUTES

4	Compensation cost.	The compensation is required where tree cutting is envisaged of the Reserve Forest.	The compensation is required where tree cutting is envisaged of the Reserve Forest.	The compensation is required where tree cutting is envisaged of the Reserve Forest.
5	Construction problems	for a stretch of 15 kms between pakro village to passa village and passa to Rilloh and part of Pakke Kessang site due to no existing road and there transportation issues.	There is no road connectivity along 31 kms of the line so there will be transportation issues.	For a stretch of 35 kms there is no existing road,so there will be transportation issues.
6	Approaches along the route	65% of the line easily approachable and the rest 35% has no road connectivity	30% of the line easily approachable and the rest 70% has no road connectivity	20% of the line easily approachable and the rest 80% has no road connectivity
7	Recommendations	The route length of this alternate is longest,far from the Bee line but location easily approachable,near to scattered habitats,far from tiger reserve thin forest, less sliding area due to low height of route,thus making this alternate techno economical more feasible less than other route.	The route length of this alternate is moderator longer,far from the Bee line with more angle point and some location are not easily approachable,location are as far to and being at high hilly unstable area,thus making this alternate techno economical more feasible less	The alternate is shortest in route length with less angle point from Alt-II but not well connected by road network location are passing through thick forest,being at high hilly unstable area,adjacent to tiger reserve which makes construction and maintenance of t/l bit difficult and thus is being recommended.
8	Reason of diverting from Bee line	AP-14 to AP-21 line has been diverted due to narrow valley tower spotting is difficult and 2 times nh crossing so we have AP-21 to AP-83 line has been diverted due to avoid villages: New lamdong, Pipokoro, Balipongta, Modernvillage, Ib colony, Rogoyer village.		

Submitted by

Checked by

Verified by

Approved by

*S. N. S.*  
(Surveyor)  
PLR PROJECT PVT LTD  
Tapash Nath/नमस तपश  
Engineer (A.P.C.T & B)  
अभिषेक (ए.पी.सी.टी. एण्ड बी)  
POWERGRID/पवरग्रिड

*S. S. Chauhan*  
एस.एस. चौहान / S.S. Chauhan  
प्रबंधक (ए.पी.सी.टी. & बी/Manager(A.P.C.T & B))  
पवरग्रिड, सेपा / POWERGRID, SEPA

*C. R. Choudhary*  
C. R. Choudhary  
Acm, Nilgudi

*P. N. S.*  
(P. N. S. Kanta)  
Project Coordinator

**For. PLR PROJECTS PVT LTD.**  
*C. R. Choudhary*  
**AUTHORIZED SIGNATORY**

*[Signature]*  
Executive Engineer (F)  
Seyra Shikha Sanyal  
Dept. of Power, Sanyal (A. S.)