		CLIENT: POWER GRID CO	RPORATION OF INDIA LIMITED		
		AGENCY: KEC I	nternational Limited.		
	Name of the Line: 132kV S/C (on D/C Tower) From Seppa S/S to Bameng S/S. COMPARATIVE STATEMENT OF ALTERNATIVE ROUTES				
SI. No.	DESCRIPTION	ALTERNATIVE ROUTE I	ALTERNATIVE ROUTE II	ALTERNATIVE ROUTE III	
1	Route Particulars	Line Length as per LOA = 40 km			
		Bee Line Length (km) =23 km			
	(i) Length (km)	29.092	38.559	44.546	
	(iv) No. of angle points	120	144	150	
	(iii) Type of Terrain (km)				
	A) Hill	18.258	38.559	44.546	
	B) Plain	10.834	0.000	0.000	
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 Rang, Loffa, Pakoti, Weshi, Tallang, Pachi, Riga Camp, Meora	scattered nature of settlements, the line has to be routed close to certain major villages Seppa, Sengriwa, Tallang, Pakoti, Neping, 18th Mile	scattered nature of settlements, the line has to be routed depart from various villages Seppa	
	(ii) Houses within R.O.W.	R.O.W. is almost free from houses etc. (LOW)	R.O.W. exists for already constructed houses, market area etc. (High)		
	extent of damage	Damages to crops in wet cultivation area is marginally low due to less cultivated area. Even though the whole line route comes under forest.			
	(iv) Forest involvement				
	a) Length of forest area	100 Percent	100 Percent	100 Percent	
	b) Type of forest	Seppa Reserve Forest	Seppa Reserve Forest	Seppa Reserve Forest	
	c) Density of forest	Moderately dense	Moderately dense	Highly dense	
	d) Type of Fauna & Flora	Flora : Teak, Sal, Holong, Wild Banana, Bamboo etc.	Flora : Teak, Sal, Holong, Wild Banana, Bamboo etc.	Flora : Teak, Sal, Holong, Wild Banana, Bamboo etc.	
		Fauna: Indian wild dog, wild boar, deer, snakes, Elephant etc.	Fauna: Indian wild dog, wild boar, deer, Snakes, Elephant etc.	Fauna : Indian wild dog, wild boar,deer, snakes, Elephant 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	Details of Crossing				
	a) Nos. of Railway Crossing		Nil	Nil	
	b) Nos. of Major Road Crossing				
	i) National Highways (NH- 229)	1	1	1	

CLIENT: POWER GRID CORPORATION OF INDIA LIMITED AGENCY: KEC International Limited. Name of the Line: 132kV S/C (on D/C Tower) From Seppa S/S to Bameng S/S. **COMPARATIVE STATEMENT OF ALTERNATIVE ROUTES** DESCRIPTION ALTERNATIVE ROUTE I ALTERNATIVE ROUTE II ALTERNATIVE ROUTE III No. 12 3 8 ii) State Highways c) Nos. River Crossing including major stream i) Major River 6 2 3 ii) Small River/Stream O 1 d) Nos. Power Line Crossing: (i) 765 kV T/L Nil Nil Nil (ii) 500 kV T/L Nil Nil Nil (ii) 400 kV T/L Nil Nil Nil (ii) 220 kV T/L Nil Nil Nil Nil Nil (iv) 132 kV T/L Nil (v) 33 kV /11 KV T/L 4 Compensation cost The compensation is required where tree cutting is The compensation is required where tree cutting The compensation is required where tree envisaged of the Reserve Forest. is envisaged of the Reserve Forest. cutting is envisaged of the Reserve Forest. Transportation Issue may come in 9.1 km of line due to There is no road connectivity along 30 km of the There is no road connectivity along 34km of Construction problems non avaliability of approach. line so there will be transportation issues. the line so there will be transportation issues. O&M problems are comparatively less in this alignment O&M problems are comparatively more in this O&M problems exsists for a strech of 34 km O&M problems due to more approach roads, nearer to city limits and more alignment due to less approach roads, less city due to hilly terrain and also there is no proper plain areas. limits and hilly area all along route. approach road. Approaches along the 70% of the line is easily approachable, and 30% has 27% of the line is approachable and the rest 73% 73% of the line is approachable and the rest difficult or bad road connectivity for which approach has to has no road connectivity for which approach have 27% has no road connectivity for which route approach roads have to be made. Recommendations This alternate is shortest in route length with less angle The route length of this alternate is moderately The route length of this alternate is longest, far points than Alt-II and Alt-III, some locations are easily longer, far from the Bee line with more angle point from the Bee line with more angle point and approachable except hilly which enables easy construction and some location are not easily approachable, some location not approchable thus making and maintenance of T/L. Hence, this alternative route is location are as far as 2.0km to 3.0km and being at this alternate less economical, more O&M cost high hilly unstable area, thus making this alternate and thus makes this alternate not to be most optimum, so is being recommended. less economical, more O&M cost and thus makes recommended. And this alternate route length this alternate not to be recommended. is more than the LOA quantity.