

**Alignment Report for 33KV line manufacturing from
33/11KV Substation Bageshwar to 33/11KV Substation Kapkot**

Sr. No.	Description of items	Alignment No.-1	Alignment No.-2	Remarks
1	2	3	4	5
1	Main Feature of Alignment	24 kms	30 Kms	
2	Length of Line from Starting point to End point	24 kms	30 Kms	
3	Geometric a) Gradient in different stretches of the allignment. b). Curves c). Hair Pin Bend No.	NA NA	NA NA	
4	Terrain and soil condition a)Geology of the area b)Road length passing through 1)Mountains terrain (Cross Slop 25% TO 60%) ii)Steep Terrain (Cross Slope more than 60%) iii)Stones with indications of loose roc conditions iv) Area subjected to Avlanches or snow drifts	Hill Area 300 Mtr. 200 Mtr. 100 Mtr. Nill	Hill Area 300 Mtr. 200 Mtr. 100 Mtr. Nill	
5	Natue of soil a)Length of reaches with Eath & Boulders b)Length of reaches with hard rock/Hard shale c)Length of reaches with Medium Rock/ Med. Shale d)Length of Reaches with homogenios rocks.	3.0 Km 2.0Km 2.5 Km Nill	3.0 Km 2.0Km 2.5 Km Nill	
6	Requirements of Bridges/Culverts/Scuppers:- a) Major Bridges b)Minor Bridges i)Total numbers ii)Total Water Ways C)Scuppers(RCC slab Type) i)Total Numbers ii)Range of Span iii)Total Water ways	Nill Nill 48 Nos. 40 mtr. 01 No.	Nill Nill 54Nos. 40 mtr. 01 No.	
7	General Elevation of Road including maximum and minimum heights by mean ascents and desents a) total Numbers of ascents and desents b)Lengths of cliffs and gorges	NA	NA	
8	Land Available a)Right of way bringing out constrains on account of build up areamonuments and others structure. B) Approximate area and value i)Cultivated ii)Irrigated iii) Un- irrigated	Nill Nill Nill Nill	Nill Nill Nill Nill	

9	Existing mean of intercommunication mule path jeep ,truck etc.	Hill Area	City Area	
10	Avalability of road construction Materials. A) Location of Quarry i)sand ii)Stone c)cement	Local Market	Local Market	
11	Facility / Resources a) B) Dropping Zone c) Food Stuff d) Labour Local Availability & lead for import e) Construction Materials, timber bomboos,sand, stone shingle etc. avallibility and lead involved.	Nil Nil Nil M.P and Local Locally	Nil Nil Nil M.P and Local Locally	
12	A.C.C points indicating possibility of equipments	Work will be done	Work will be done	
13	Climate conditions a) Temoerature Maximum/ minimum b) Rainfall average,annual,peak,intensity,monthly,decip tion to the extent possible. C) length of road covered by snow (avarge and peak) d)Wind direction e) Fog Condition f) Exposure to sun	Max 30 Degree Min 10 degree 10 cm Avg. Nil East west partially sunny	Max 30 Degree Min 10 degree 10 cm Avg. Nil East west partially sunny	
14	Drainage Characcterstic of the area indicating susceptability of damages	NA	NA	
15	Length of land slides	Nil	Nil	
16	Length of Heavy Clouding	Nil	Nil	
17	Length of mareshyor flodded area	Nil	Nil	
18	Length of portions with losse rock	Nil	Nil	
19	Period Required for Construction	1 Year	1.25 Yr	
20	Vegetation extent Type	Forest Land , Van Panchyat and Civil land	Forest Land , Van Panchyat and Civil land	
21	Political aspects (Village falling with in population) a)1st KM of 2nd km the aligments. B)2nd KM of 5th km the aligments. C)6th KM to 8th alignments	Khabdoli Arre kathyatvada	Khabdoli Arre kathyatvada	
22	Strateic considerations	Fair	Fair	
23	Economical & Industrial considerations (a)Population served by the alignment	3 Lac	3 Lac	
24	Recreation Potential for development	Tourism and Education	Tourism and Education	
25	Scope of agricultural and horticultural development	Much Scope	Much Scope	

26	Extent of forest wealth	2.7L Approx	4.0 L Approx	
27	Approximate cost of Each Alignment	7.2 Cr.	8 Cr.	
28	Merits/ Demerits i) ii iii iv v	i)Benefit of 24 hr. electricity to local people ii)economical iii)villagers is agree iv)employment chance to local people v)Chances of better tourism	Benefit of 24 hr. electricity to local people Less economical villegers is not agree employment chance to local people Chances of better tourism	
29	Any Other Important information v.i.s other important projects being undertaken in the area required for complion of the work	Null	Null	

Recommendation of excecutive Engineer-

The alignment No.-1 is recomnded for construction in view of the above facts.


Jouiner Engineer Assistant engineer

Approval of Superintending Engineer


Executive Engineer
Electv. Secodary Works Division
T. P. C L. Haldwa. i (Nainital)


Superintending Engineer
Electricity Secondary Works Circle
Uttarakhand Power Corpn Ltd.
Superintending Engineer in ()