## Performa for comparison between identified alignments

Name of work- Construction of Koti band to Ghatora Motor road and 2 R.C.C Bridge in District Chamoli

	Variables	Alignr	ment No-1		Align	ment No-2	- A ( a tra)	
1	2	C. Inhayota 115	3	mar.		4		
1	Topography	start fromBagol	i koti Motor F 00 ( H.M 4-6		start fromBago K.M. 11.	li koti Motor 00 ( H.M 4-6		
2	Length of Road	5.00 Km			5.00 Km			
3	Bridging requirement No. and Length	Nil			Nil			
4	Geometric		100			41 5 35		
	(a) Gradients	1:22 1:24 1:60 1:	20		1:15 1:17 1:20			
	(b) Curves, H.P Bends	2 HP Bands			5 HP Bands			
5	Existing Means of communication, mule path, jeep, Tracks etc.	Department		annua	Mule Path & Foo			
6	construction on account of built up areas, monuments and other structures.	no built up area	ction work. 7	Thare are s of other	out the constru- no built up area	ction work.  i, monument	Thare a	
7	Terrain & Soil Condition		1.00	11 to -	(i) The terroin is	hilly and th	o soil is	
	(i) Nature of soil	mix of Earth	(i) The terrain is hilly and the soil is a mix of Earth and Boulders, Soft Roack, Hard Rock & Very Hard Rock			t mix of Earth and Boulders, S Roack, Hard Rock & Very Hard Roc		
	(ii) Cliffs and gorges.	(ii) None			(ii) None			
	(iii) Drainage characteristics of the area including supceptibility to flooding	(iii) The Natural Drainage characteristics of the area is good and there is no susceptiblitity to flooding			characteristics of the area is good a there is no susceptiblitity to flooding			
	(vi) General elevation of the road indicating maximum and minimum height negotiated by main ascends and discends	nlof the road i	s 1660 m	and the	e of the road lelevation at the is 1550 m.	is 1/80m	and	
	indicating maximum and minimum height negotiated by main ascends and	of the road in the elevation at the	s 1660 m	and the	e of the road lelevation at the	is 1/80m	and	
8	indicating maximum and minimum height negotiated by main ascends and discends	of the road in elevation at the is 1540 m.	s 1660 m	and the	e of the road lelevation at the is 1550 m.	is 1/80m	and	
8	indicating maximum and minimum height negotiated by main ascends and discends  (v) Variations extants and types	of the road in elevation at the is 1540 m.  Nil	s 1660 m end point c	and the	eler the road elevation at the is 1550 m.  Nil	e end point o	and of the ro	
8	indicating maximum and minimum height negotiated by main ascends and discends  (v) Variations extants and types  Climate Condition	n of the road in elevation at the is 1540 m.  Nil  (a) Temperatur reading.	s 1660 m end point c	and the f the road	elof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.	e end point of	and of the ro	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road in elevation at the is 1540 m.  Nil	s 1660 m end point c	and the f the road	elof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.	e end point of	and of the ro	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month	e Monthly m  Temperat  Max.	and the f the road  ax. & Min  ure (in <sup>0</sup> C)	elof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.  Month	e end point of the end	and of the ro  ax. & N  ture (in	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January	e Monthly m  Temperat  Max.  10	and the f the road  ax. & Min  ure (in <sup>0</sup> C)  Min.  -1	lof the road elevation at the is 1550 m.  Nil  . (a) Temperatur reading.  Month  January	e end point of the end	and of the roll of	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February	e Monthly m  Temperat  Max.  10  12	ax. & Min  ure (in <sup>0</sup> C)  Min.  -1  5	lof the road elevation at the is 1550 m.  Nil  . (a) Temperatur reading.  Month  January February	e end point of the end	eax. & Nature (in Min -1 5	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February  March	e Monthly m  Temperat  Max.  10  12  20	ax. & Min  ure (in <sup>0</sup> C)  Min.  -1  5  14	lof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.  Month  January  February  March	Temperar Max. 10 12 20	eax. & Name of the results of the re	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April	e Monthly m  Temperat  Max.  10  12  20  25	ax. & Min  ure (in <sup>0</sup> C)  Min.  -1  5  14  18	elof the road elevation at the is 1550 m.  Nil  . (a) Temperatur reading.  Month  January  February  March  April	Temperar Max. 10 12 20 25	and of the rotate ax. & Nature (in Min 14 18	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April  May	e Monthly m  Temperat  Max.  10  12  20  25  32	and the f the road  ax. & Min  ure (in °C)  Min.  -1  5  14  18  20	lof the road lelevation at the is 1550 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April  May	Temperar Max. 10 12 20 25 32	and of the round o	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April  May  June	e Monthly m  Temperat  Max.  10  12  20  25  32  35	and the f the road  ax. & Min  ure (in <sup>0</sup> C)  Min.  -1  5  14  18  20  24	lof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.  Month  January February March April May June	Temperar Max. 10 12 20 25 32 35	and of the rouse (in Min -1 5 14 18 20 24	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April  May  June  July	e Monthly m  Temperat  Max.  10  12  20  25  32  35  34	and the f the road  ax. & Min  ure (in °C)  Min.  -1  5  14  18  20  24  19	lof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April  May  June  July	Tempera Max. 10 12 20 25 32 35 34	and of the route (in Min -1 5 14 18 20 24 19	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April  May  June  July  August	e Monthly m  Temperat  Max.  10  12  20  25  32  35  34  28	and the f the road  ax. & Min  ure (in °C)  Min.  -1  5  14  18  20  24  19  17	lof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.  Month  January February March April May June July August	Temperar Max. 10 12 20 25 32 35 34 28	and of the roll of	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January February March April May June July August September	e Monthly m  Temperat  Max.  10  12  20  25  32  35  34  28  28	ax. & Min  ure (in °C)  Min.  -1  5  14  18  20  24  19  17  13	lof the road elevation at the is 1550 m.  Nil  . (a) Temperatur reading.  Month  January February March April May June July August September	Temperar  Max.  10  12  20  25  32  35  34  28  28	max. & Max. & Min   -1   -1   -1   -1   -1   -1   -1   -	
8	indicating maximum and minimum height negotiated by main ascends and discends (v) Variations extants and types  Climate Condition  (a) Temperature Monthly max. & min.	of the road is elevation at the is 1540 m.  Nil  (a) Temperatur reading.  Month  January  February  March  April  May  June  July  August	e Monthly m  Temperat  Max.  10  12  20  25  32  35  34  28	and the f the road  ax. & Min  ure (in °C)  Min.  -1  5  14  18  20  24  19  17	lof the road elevation at the is 1550 m.  Nil  (a) Temperatur reading.  Month  January February March April May June July August	Temperar Max. 10 12 20 25 32 35 34 28	and of the route (in Min -1 5 14 18 20 24 19	

## Name of work-Construction of Koti band to Ghatora Motor road and 2 R.C.C Bridge in District Chamoli

I.No	Variables		nent No-1		nent No-2	
	(b) Rainfall data average annual peak	b) Rainfall data average annual peak		(b) Rainfall data average annual peak intensities monthly distribution		
	extent available)	intensities monthi	tensities monthly distribution		Average Rainfall	
3/53		Month	Average Rainfall	Month	data (in mm)	
			data (in mm)	lanuani	50	
		January	50	January	33	
12		February	33	February	28	
		March	28	March	25	
		April	25	April	20	
		May	20	May	161	
	Sergiolo Comidentista:	June	161	June	350	
		July	350	July	305	
		August	305	August		
		September	210	September	210	
	Important Filiages, counts and	October	90	October	90	
		November	7	November	7	
		December	40	December	40	
	(c) Snowfall data average annual peak	(c) Snowfall fall (	c) Snowfall fall data average annual		(c) Snowfall fall data average annua	
	intensities monthly distribution (to the	Month	Average Snowfall	Month	Average Snowfa	
	extent available)	January	70	January	70	
	extent available)	February	30	February	30	
	bler major development projects are.	March		March	-	
		April	Water Street Control of the Control	April		
		May		May		
		June		June		
		July		July		
		August		August		
		September		September		
		October		October		
		November	30	November	30	
		December	70	December	70	
		(d) Towards no			rth - east @ 20 km /	
	(d) Wind direction and velocities.	(d) Towards no	(d) Towards north – east @ 20 km / h		(a) Towardo Horas Garage	
	(e) Fog Condition	(e) Nil	(e) Nil		(e) Nil	
	(f) Exposure to sun	throughout the	throughout the year.		throughout the year. Except 2 to Months.	
	(a) Unusual weather condition like	(e (g) There is	weather condition like cloud brust i		(g) There is no record of unsum weather condition like cloud brus the area where the site is located.	
	cloud brust etc	weather condit				
	THE STREET WAS TO SERVICE AS A SECOND CONTRACT OF S	the area where	the site is located.	the area where	the site is located.	
9	Facilities resources.					
9	(a) Landing ground.	(a) None	(a) None		(a) None	
			M. S. TEX III II CONT. III II I		(b)Atsite	
	(b) Dropping Zone.	(b) At site	(b) At site			
	(c) Food stuffs.	Green Vegetal	Green Vegetable, Onion etc		Green Vegetable, Onion etc	
		Looctruction Min	Loootruction Work		for (d) Local labour is available costruction work.	
	(e) Construction material (Timbo Barnboo, Sand, Stone, Shingle e extent of their availability and le	tc. work shall be ad as it shall be	made available loca obtained from hill si over. Sand requried	ion (e) Stone require for the costruction (e) Stone require for the costruction work shall be made available to ide as it shall be obtained from hill for cutting, However, Sand required		
	involved	the construc	ction work shall the approved quarry.	be the construc	tion work shall the approved quarry	

## Name of work-Construction of Koti band to Ghatora Motor road and 2 R.C.C Bridge in District Chamoli

SI.No I	Variables	Alignment No-1	Alignment No-2
10	Value of land, agricultural land, Irrigated land, bult up land, forest	alignment is as under- As per current a	Value of the land required for the construction of the road in this alignment is as under- As per current Govt. Rate
			Rs. 70.00 Lacs
11	Approximate Const. Cost.  Access point indicating possibility	Access point available for induction of	Access point available for induction of
12	Access point indicating possibility		
13	of induction of equipment.  Period required for construction.	15 Months	18 Months
10		Deployment of skilled manpower and	Deployment of skilled manpower and
14	Strategic Consideration.	efficient equipment/ Machinery shall be made for completion of the project.	be made for completion of the project.
15	Important villages, towns and markets centers to be connected.	The state of the s	population of numbers.
16	Recreational potential.	Nil	Nil
17	Economic Factors:		
17	(a) Population served by the alignment.	(a) 892	(a) 892
	(b) Agricultures and economic potential of the area.	through road) shall enchance the	through road) shall enchance the
	(b) Agricultures and economic potential of the area.	crops by mechanical means (i.e. through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.	through road) shall enchance the economical condition of the peop residing in this area. Potential of the development of animal husbandry.
18	of the area.	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  s None	through road) shall enchance the economical condition of the peopresiding in this area. Potential of the development of animal husbandry.  None
	of the area.  other major development project being taken up electric projects etc.	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  S None	through road) shall enchance the economical condition of the peopresiding in this area. Potential of the development of animal husbandry.  None  (i) Nil
18	of the area.  other major development project being taken up electric projects etc.	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law and order problem in the area and the load administration takes care of successions.	through road) shall enchance the economical condition of the peoperesiding in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law a corder problem in the area and the loacl administration takes care of sumatters.
	of the area.  other major development project being taken up electric projects etc.  (i) Misc. Such as camping sites	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law and order problem in the area and the load administration takes care of successions.	through road) shall enchance the economical condition of the peoperesiding in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law a corder problem in the area and the loacl administration takes care of sumatters.  (iii) Royalty is paid to the Revent Department.
	other major development project being taken up electric projects etc.  (i) Misc. Such as camping sites  (ii) Law and other problem  (iii) Royalty  (iv) Availability of contractors collection and carriage of construction	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law and order problem in the area and the loacl administration takes care of sucmatters.  (iii) Royalty is paid to the Revenu Department.	through road) shall enchance the economical condition of the peoperesiding in this area. Potential of the development of animal husbandry.  None  (i) Nil  d (ii) There is no significant law as eorder problem in the area and the load administration takes care of sumatters.  e (iii) Royalty is paid to the Revended Department.  (iv) Available
	other major development project being taken up electric projects etc.  (i) Misc. Such as camping sites  (ii) Law and other problem  (iii) Royalty  (iv) Availability of contractors collection and carriage of construction material  (v) working period available	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law and order problem in the area and the loacl administration takes care of sucmatters.  (iii) Royalty is paid to the Revenu Department.	through road) shall enchance the economical condition of the peoperesiding in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law a order problem in the area and the loacl administration takes care of sumatters.  (iii) Royalty is paid to the Reven Department.  (iv) Available
19	other major development project being taken up electric projects etc.  (i) Misc. Such as camping sites  (ii) Law and other problem  (iii) Royalty  (iv) Availability of contractors collection and carriage of construction material  (v) working period available construction of work.	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  Solvential of the people residing in this area. Potential of the development of animal husbandry.  (i) Nil  (ii) There is no significant law and order problem in the area and the load administration takes care of sucmatters.  (iii) Royalty is paid to the Revenu Department.  for (iv) Available on	through road) shall enchance the economical condition of the peoperesiding in this area. Potential of the development of animal husbandry.  None  (i) Nil  d (ii) There is no significant law a eorder problem in the area and the loacl administration takes care of sumatters.  e (iii) Royalty is paid to the Revended Department.  (iv) Available
19	other major development project being taken up electric projects etc.  (i) Misc. Such as camping sites  (ii) Law and other problem  (iii) Royalty  (iv) Availability of contractors collection and carriage of construction material  (v) working period available construction of work.  Total No. of Trees to be removed.	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law and order problem in the area and the load administration takes care of such matters.  (iii) Royalty is paid to the Revenu Department.  for (iv) Available on for (v) 09 Months	residing in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law are order problem in the area and the loacl administration takes care of sumatters.  (iii) Royalty is paid to the Reven Department.  (iv) Available  (v) 07 Months
19	other major development project being taken up electric projects etc.  (i) Misc. Such as camping sites  (ii) Law and other problem  (iii) Royalty  (iv) Availability of contractors collection and carriage of construction material  (v) working period available construction of work.	through road) shall enchance the economical condition of the people residing in this area. Potential of the development of animal husbandry.  Solvential of the people residing in this area. Potential of the development of animal husbandry.  (i) Nil  (ii) There is no significant law and order problem in the area and the load administration takes care of sucmatters.  (iii) Royalty is paid to the Revenu Department.  for (iv) Available on	through road) shall enchance the economical condition of the peoperesiding in this area. Potential of the development of animal husbandry.  None  (i) Nil  (ii) There is no significant law a order problem in the area and the loacl administration takes care of sumatters.  (iii) Royalty is paid to the Reven Department.  (iv) Available

Recommondations:-

Alignment no.(1) recommended for approval being more economical, useful & technically feasible.

P.D.P.W.D. Karanprayag

A.E. P.D.P.W.D. Karanprayag E.E. P.D.P.W.D. Karanprayag