

**OFFICE OF THE CHIEF ENGINEER,
NATIONAL HIGHWAY ZONE, P.W.D. RAIPUR (C.G.)**

Tel:- 0771-4051075, Fax. 0771-4023057 email- cenhr@rediffmail.com

Memo No.- 606 /CE/NH/Corridor/A/02-2/18/2020-21

Raipur, Dated 06/10/2020

To,

M/s. Global Infra Solutions JV Infycons,
F-2, E-8/11A, Sukhsagar Apartment,
Trilanga, Bhopal(M.P.) - 462039
Mob.- +91-98264-83009
Email: globalinfycons@gmail.com

Subject: Consultancy Services for Project Management Phase I including preparation of Detailed Project Report for up gradation to Two/Four lane with paved shoulder under Corridor Scheme on EPC Basis of Keonchi-Ratanpur (NH/CE/PWD/18) of tent. length 80.00 Km.
Reg. Alignment approval of Keonchi-Ratanpur.

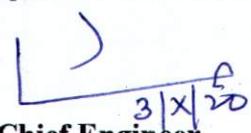
Kindly find enclosed herewith the RO, MoRTH letter no. RW/NH/RO/CG/2020-21/DPR/410 Dated 26/08/2020 regarding approval of Alignment for stretch Keonchi-Ratanpur' of length 82.210 km. (design-83.543 Km.).

In regards to the alignment approval following points are to be noted:-

1. Approved Alignment details are enclosed in the Ministry's letter therein.
2. The proposal of tunnel construction in Ghat section from km. 279+600 to km. 279+300 is not agreed by Ministry. In place of tunnel, necessary improvement is to be taken up as appropriate.
3. The detailed investigation of proposed bypass nat Ratanpur shall be done, before taking up LA/FA/US. The proposal of pre-construction activities shall be prepared separately for taking up its sanction first. So that hindrance free ROW may be made available to the contractor at the time of construction.
4. You are required to explore structural strength of existing pavement and wherever existing crust is adequate thickness meets the specifications and can be utilized and there is no requirement of raising, the strengthening/widening of existing crust with overlay may be done.

You are required to proceed with the further activities of DPR preparation in accordance to the Alignment approved by the Ministry.

Encl:- As above


Chief Engineer

National Highway Zone,
P.W.D. Raipur (C.G.)

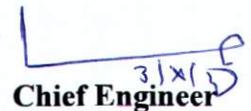
Endt. No 607 /CE/NH/Corridor/A/02-2/18/2020-21

Raipur, Dated 06/10/2020

Copy forwarded to:

1. **Regional Officer**, Ministry of Road Transport & Highways, N.H. Campus, Raipur (C.G.) for information
2. **Superintending Engineer**, P.W.D. N.H. Circle Bilaspur (C.G.) for information
3. **Executive Engineer**, P.W.D. N.H. Division Bilaspur for information and necessary action.

Encl:- As above for sr. no. 2 & 3 only


Chief Engineer

National Highway Zone,
P.W.D. Raipur (C.G.)

<p>भारत सरकार सड़क परिवहन एवं राजमार्ग मन्त्रालय</p>		<p>Telephone: 0771 - 2436637, Telefax: 0771- 2436637 Government of India Ministry of Road Transport & Highways</p>
<p>क्षेत्रीय कार्यालय एन.एच. कैम्पस, पेंशन बाड़ा रायपुर, छत्तीसगढ़ - 492 001</p>		<p>Regional Office, NH Campus, Pension Bada, Raipur, Chhattisgarh - 492 001</p>
<p>RW/NH/RO/CG/2020-21/DPR/ 4/0</p>		<p>Dated 26.08.2020</p>

To,

The Chief Engineer (NH)
Public Works Department,
NH Zone, Raipur (CG) - 492001

Sub: Consultancy Services for preparation of Detailed Project Report for up gradation to Two/Four lane with paved shoulder under Corridor Scheme on EPC Basis of "Balod-Gunderdehi-Durg-Dhamdha-Gandai-Salhetekari Road-CG-MH Border Road" of tentative length 165.00 Km, Geedam-Dantewada (12.00 km) & Keonchi-Ratanpur (80 km) - Alignment approval

Ref: (i) Your office Memo No. 470/Corridor/CE/NH/PWD/19/ dated 29.07.2020
(ii) Your office Memo No. 468/Corridor/CE/NH/PWD/19/ dated 29.07.2020
(iii) Your office Memo No. 476/Corridor/CE/NH/PWD/19/ dated 31.07.2020

Sir,

Please refer to your office letters u/r (i), (ii) and (iii) vide which proposals for alignment approval for subjected DPRs were submitted.

2. In this regard, it is informed that proposed alignments for the following stretches are approved by the Ministry:

- i. **Balod-Gunderdehi-Durg-Dhamdha-Gandai-Salhetekari Road-CG-MH Border Road** of tentative length 165.00 Km: Approved alignment details are enclosed at Annexure-A.
- ii. **Geedam-Dantewara (12 km)**: Approved alignment details are enclosed at Annexure-B.
- iii. **Keonchi-Ratanpur (80 km)**: Approved alignment details are enclosed at Annexure-C. Further, it may be noted that provision of 11.70 km long tunnel in Ghat section from km 297+600 to 279+300 is not agreed & approved by Ministry. In place of tunnel, necessary improvement may be considered as appropriate.

3. Ministry has also imposed following conditions:

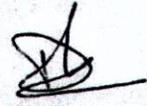
- (i) For the In-principle NH "Balod-Gunderdehi-Durg-Dhamdha-Gandai-Salhetekari Road-CG-MH Border Road" above, the consultancy service may be fore closed as per the circular issued recently (Copy enclosed) and submission of all reports /deliverable as per TOR.
- (ii) For bypasses/realignments, at least three alternative proposals (in some cases in IPNH only 2 options including one existing have been analyzed) may be explored and before taking up LA/FC/US, in-principle approval may be obtained for Bypasses & the project may be included in the Annual Plan. It is also suggested to take up sanction for preconstruction activities first separately.

(iii) It has been observed that for all three stretches, re-construction of new crust /raising of the existing road level have been proposed. It is suggested, wherever the existing crust has adequate thickness/meets the specifications & can be utilized and there is no requirement of raising, the strengthening of existing crust with overlay may be done.

5. This is issued with the approval of Competent Authority in the Ministry HQ.

Encl: As above.

Yours faithfully,

 26/8
(Dheeraj)

Regional Officer

Copy to:

The CE (Zone-IV), M/oRTH, New Delhi.

 26/8
(Dheeraj)

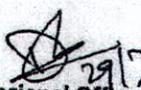
Regional Officer

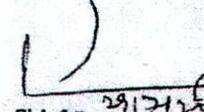
Sr No.	Description	Provisions in Feasibility Report			
		1	Total Length of Project Road in Chattisgarh	168.675 Km	
2	Districts	Balod, Durg, Rajnandgaon			
3	Existing Road	SH 5, SH7, MDR			
4	Traffic Census	Chainage		AADT (PCU) 2019	
		From	To		
		0+000	38+000	7754	
		38+000	59+100	7935	
		59+100	83+000	8132	
		83+000	121+400	3355	
5	Lane Configuration	Design Chainages		Length (Km)	Lane Configuration
		From	To		
		0+000	52+000	52.000	2 Lane with Paved Shoulders
		52+000	52+700	0.700	2 Lane with Paved Shoulders
		52+700	53+600	0.900	4 Lane Divided Carriageway
		53+600	54+103	0.503	2 Lane with Paved Shoulders
		54+103	56+700	2.597	4 Lane Divided Carriageway
		56+700	92+500	35.800	2 Lane with Paved Shoulders
		92+500	128+445	35.945	2 Lane with Paved Shoulders
		128+445	131.5	3.055	2 Lane with Paved Shoulders
		135+400	136+700	1.300	Intermediate Lane
		136+700	140+160	3.460	2 Lane with Paved Shoulders
		140+160	140+350	0.190	Intermediate Lane
		140+350	141+500	1.150	2 Lane with Paved Shoulders
		141+500	163+600	22.100	Intermediate Lane
		163+600	165+000	1.400	2 Lane with Paved Shoulders
		165+000	166+500	1.5	Intermediate Lane
165+500	168+675	3.175	2 Lane with Paved Shoulders		

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6	Widening Proposals	No of Bypass		I.No.	Length=5.1 Km		
		No of Major Realignment		4 Nos.	Length=6.07 Km		
		Design Chainage		Length (In Km)	Remarks		
		From	To				
		0+000	2+700	2.700	Jhalmala Realignment		
		2+700	41+880	39.180	Alignment follows Existing Road with Geometric Improvements		
		41+880	42+500	0.620	Anda Realignment		
		42+500	83+000	40.500	Alignment follows Existing Road with Geometric Improvements		
		83+000	84+300	1.300	Pathariya Realignment		
		84+300	86+500	2.200	Alignment follows Existing Road with Geometric Improvements		
		86+500	91+600	5.100	Dhamdha Bypass		
		91+600	122+200	30.600	Alignment follows Existing Road with Geometric Improvements		
122+200	123+650	1.450	Gandai Realignment				
123+650	168+675	45.025	Alignment follows Existing Road with Geometric Improvements				
7	Railway Crossing	The alignment crosses double railway line at Km 58.250 Durg.					
8	Bridges/ Structures	Sr No.	Description	Retained without widening	Widening	Reconstruction	New Construction
		(i)	Major Bridge	1	0	0	2
		(ii)	Minor Bridge	8	0	9	2
		(iii)	VUP	1	0	0	0
		(iv)	RUB	1	0	0	0
		(v)	ROB	1	0	0	0
		(vi)	Total	12	0	9	4


 Regional Officer
 MoRTH, Pension Bada,
 Raipur (C.G.)


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 National Highway Zone,
 P.W.D. Raipur (C.G.)

1411091/2020/RO Raipur

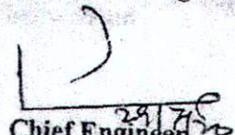
Geedam Dantewada- (NH No. 163A)

Annexure-B

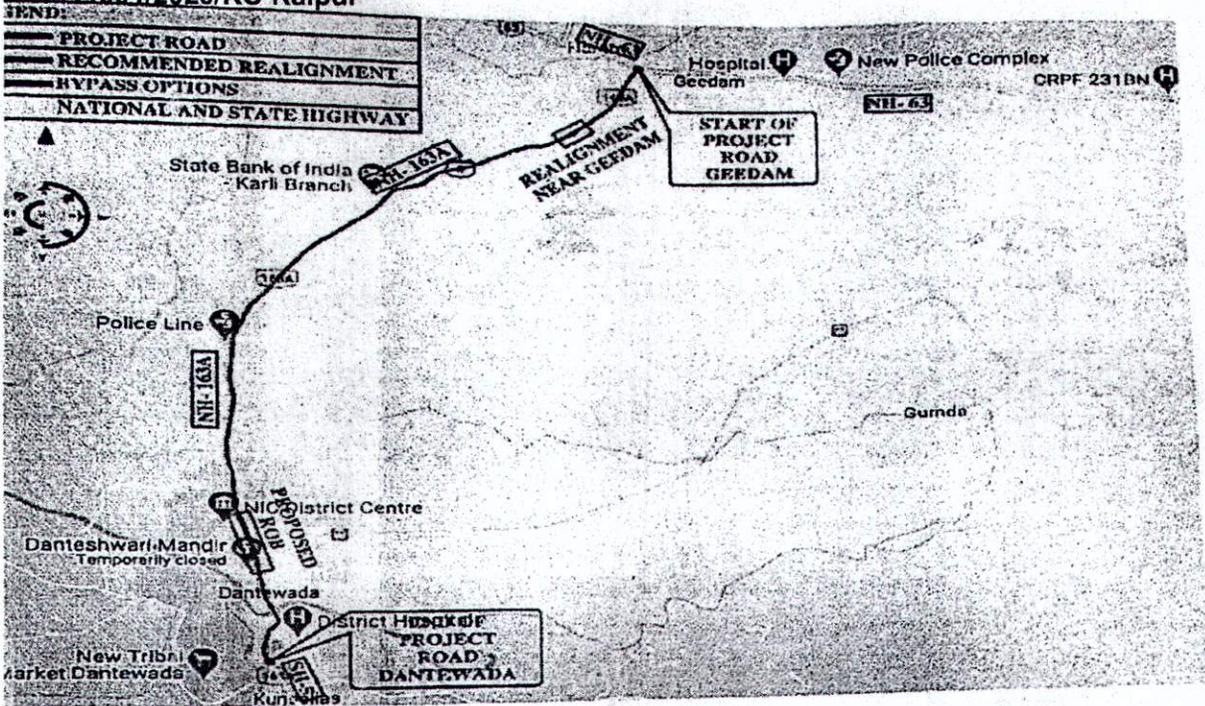
- (a) **Project Location**- The project stretch starts from Junction at km 0.000 of NH 163A (old SH 5) & NH 63 Nizamabad - Mancherial - Jagdalpur road near Geedam and it ends at Dantewada.
- (b) **Project Route**- Geedam- Karli- Chitalanka- Awarabhata- Dantewada
- (c) **Project Length**- Total length of the road from Km 0+000 at Geedam to the end point at Dantewada is 12.00 kms.
- (d) **Tentative Traffic**- 6000 to 7000 PCU
- (e) **ROW & Carriageway**- ROW varies from 14 meters to 18 meters for the entire length of project road. Carriageway width is around 7.5 m from start point at km 0+000 to km 6+400 & 14.5 meters from Km 6.400 to Km 12.000, out of the entire length, 7.5 km is double lane & 4.5 km is Four lane.
- (f) **Land Use Pattern**- Land use pattern along the project road is predominantly built up in the sections near Geedam & Dantewada respectively viz. km.0.000 to km.0.500 and km.500 onwards till km 12.000. Remaining portion of the road has agricultural area & forest area. 58 % of land along the project road is Built-up Land, 29.50 % of the land along the project road is Agricultural land and remaining 12.50 % of land is Forest land.
- (g) **Importance of project road:-**
- This route provides direct connectivity to Dantewada from Jagdalpur on NH 30.
 - Mata Danteshwari temple, one of the 51 shaktipeeth exists along the alignment of this project road.
 - Bailadila Iron Ore Mines in Dantewada District, which constitutes one of the richest concentration of iron-ore of world.
 - Bade Bacheli tin deposit located near Nerli Village, which is 36 kms from district headquarters at Dantewada.
 - Elevation of local economy by providing new opportunities to tribal people.
- (h) **Proposed ROB** - Road Over-Bridge from km 9/625 to km 10/375 is mandatory as a railway line intersects the existing highway at km 10.020. This will be a significant investment in the proposed 2 lane+PS configuration for Geedam- Dantewada National Highway and will provide long-term benefits to drivers and local residents. The total length of the ROB shall be 750 meters.
- (i) **Proposed Realignment** - 1 no. of realignments has been proposed along this stretch to improve the road geometry at the existing sharp curve & also to provide riding safety and comfort. Realignment near Geedam from km 1/175 to km 1/510- (335 m).
- (j) **Bridges & Culverts** - A total of 5 No. of Bridges have been constructed on the project road out of which 4 are minor bridges and 1 bridge is a major bridge of length 168 meters at km 11+100.

A total of 20 culverts were recorded on the stretch, some of which are in poor/choked condition. Out of the recorded 20 culverts, 1 is pipe culverts & remaining 19 are slab type culverts.


Regional Officer
MoRTH, Pension Bada,
Raipur (C.G.)


Chief Engineer
National Highway Zone,
P.W.D. Raipur (C.G.)

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Geedam Dantewada- (NH No. 163A)

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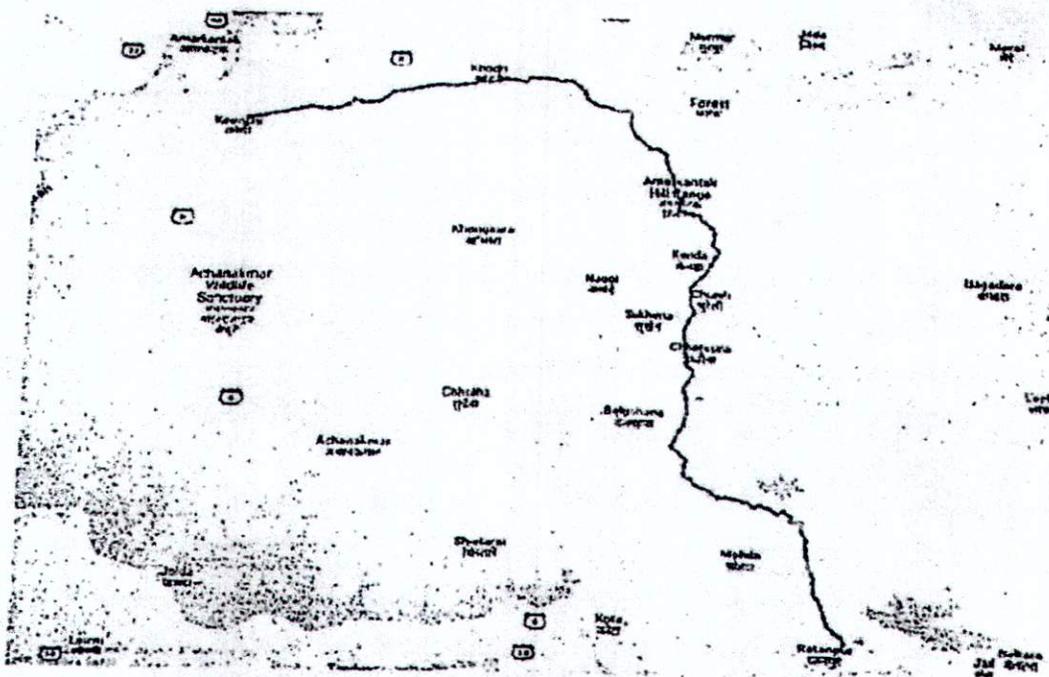
Sr No.	Description	Provisions in Feasibility Report			
1	Start Point	Y-junction with NH-45E & SH-8 near Keonchi Village at km 237.860			
2	End point	At km 320.070 at New NH-130 by making Cross-Junction near Dulhara Talab at Ratanpur Bypass			
3	Total Length of Project Road	82.210 km (Existing) 83.543 km (Design)			
4	Districts	Korba and Bilaspur			
5	Existing Road	NH-45 extd.			
6	Built-ups	Keonchi, Khodri, Banjhoraka, Jogisar (Right Side), Jogisar, Belpat, Dungra, Kenda, Kusumkheda, Amumrda, Darsagar, Majhwani, Majhwani, Baridih, Bansajhal, Chapora, Khaira, Ghasipur and Ratanpur.			
7	Land Use Pattern	Agricultural (33%), Built-up (8%), Barren (6.3%), Water Body (0.3%) and Forest (52%)			
8	Traffic Census	Chainage		AADT (PCU) 2018	
		From	To		
		km 237+860	km 298+160	3174	
		km 298+160	km 312+760	3157	
		km 312+760	km 320+070	9032	
9	Lane Configuration	2Lane+PS of 2.50m in Built-up		= 3.050 km	
		2Lane+PS of 2.50m in open country		= 72.011 km	
		2Lane+PS of 1.50m in Ghat section		= 5.290 km	
		VUP with Service cum Slip Road		= 1.296 km	
		And 2 toll plazas		= 1.176 km (2x0.588 km)	
		ROB		= 0.720 km	
		Total		= 83.543 km	
10	Improvement Proposals	No. of Bypass		1 No.	Length=6.954 Km
		Design Chainage		Length (In Km)	Remarks
		From	To		
		237.86	273.18	35.520	Alignment follows Existing Road with Geometric Improvements
		273.18	279.03	05.850	Ghat Improvement
		279.03	314.46	35.430	Alignment follows Existing Road with Geometric Improvements
314.46	321.414	06.954	Ratanpur Bypass		

1411092/2020/RO Raipur

Sr No.	Description	Provisions in Feasibility Report					
11	Railway Crossing	The alignment crosses double railway line at km 256+490.					
12	Toll Plaza	02 Nos. At Km. 252+350 (252.110 to 252.590) in Thengadand Village and km 290.340 (290+100 to 290+580) in Chattona Village.					
13	Bridges/ Structures	Sr No.	Description	Retained without widening	Widening	Reconstruction	New Construction
		(i)	Major Bridge	2	0	0	2
		(ii)	Minor Bridge	4 (due to realignment)	0	8	4
		(iii)	VUP	0	0	0	2
		(iv)	RUB	0	0	0	0
		(v)	ROB	0	0	0	1
		(vi)	Total	6	0	0	9

[Signature]
Regional Officer
MoRTH, Pension Bada,
Raipur (C.G.)

[Signature]
Chief Engineer
National Highway Zone,
P.W.D. Raipur (C.G.)



Project Highway: Keonchi to Ratanpur (New NH-45E)

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D:\Newly declared projects\NH-CE-PWD-18 (Keonchi to Ratanpur)

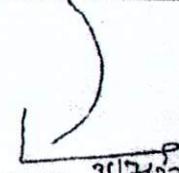
Summary of Bypass Options:

S.No.	Feature/ Item	Option-1 (Recommended)	Option-2	Option-3
1	Name of Bypass	Ghansipur to Dulhara Talab (Ratanpur Bypass)	Ratanpur College- Kota Rataniya Road Junction (Ratanpur Bypass)	Ghansipur to Kota Rataniya Road Junction (Ratanpur Bypass)
2	Start Point	Ch.77.790 km of Existing Alignment (Design Ch.: 314+250 km)	Ex Ch 80.125 (Near Ratanpur College)	Ex Ch.79+345 km (Before Ratanpur College)
3	End Point	Design Ch.: 321+414 km NH-130 Ratanpur Bypass Km.34+400 of Raipur-Bilaspur- Pathrapali Road Section	Kota Rataniya Road Junction	NH-130 On Rataniya Road (Near Govt, Girls Hr. Sec. School)
4	Length	6.954 km	3.300 km	6.100 km
5	Area Required (Hec.)	32.175	14.85	27.45
6	Side	RHS	RHS	LHS
7	Terrain	Plain & Rolling	Plain	Plain & Rolling
8	Land Use	Agricultural, Barren and few settlements.	Agricultural & few settlements	Agricultural & few settlements
9	Forest	Passing through the forest land	No	No
10	Passing /Crossing Hill or High elevation	Near to the downhill	No	Crossing an elevated topography.
11	Water Bodies or Ponds	Passing through the close proximity of ponds	Passing through the close proximity of various ponds	Passing through the close proximity of various ponds
12	Special land or Vegetation	Pomegranate Orchard & Agricultural Field	Agricultural Field	Agricultural Field

S.No.	Feature/ Item	Option-1 (Recommended)	Option-2	Option-3
13	Building or Boundary of Pvt. Land	Nil	Ratanpur College land and Start Point Location is passing through the land where annual religious fair is held.	Various huts and houses.
14	Merits	Not passing through built-ups/settlements & utilizing existing earthen road alignment.	Shortest length with compliance of geometric standards.	No Merits
15	Conclusion & Recommendations	Since, it is not passing through any built-ups/settlements land acquisition will be easier and also passing through the barren land and utilizing the existing earthen road. And this option is suggested by the Department. Because, they have already worked out on this alignment previously.	Passing through the close proximity of various ponds & fertile agricultural land. And also, the start location is passing through the land where annual religious fair is held every year. Thus, this option is not recommended.	Passing through the close proximity of various ponds and elevated topography and fertile agricultural land. And also passing through and close to the settlements. Thus, this option is not recommended.
16	Recommendations	Recommended	Not-Recommended	Not-Recommended



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