FORM – "A"

Form for seeking **PRIOR APPROVAL**

Under section – 2 of Forest (Conservation) Act.1980

for construction of

Preparation of Detailed Project Report for Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)

CHICKAMANGALURU FOREST DIVISION (Design chainage KM 163+300 to KM 189+500 & KM 192+450 TO KM 200+825) = 34.575 Km

HASSAN FOREST DIVISION (Design chainage KM 189+500 to 192+450) = 2.95 KM

MANGALURU FOREST DIVISION (Design chainage KM 200+825 to 230+020) = 29.195 KM

Total Forest Area for Diversion is 60.134 Ha. of **Reserve Forest Area(RFA)**

National Highway Authority of India

Project Implementation Unit, Chitradurga

Kartnataka

INDEX OF GENERAL CHECK LIST OF DOCUMENTS TO BE ENCLOSED IN THE PROPOSAL OF DIVERSION OF FOREST LAND FOR NON-FOREST USE UNDER

THE FOREST (CONSERVATION) ACT, 1980

Sr.No.	Document	To be provided by UA / FD	Page No.
1.	Online registration number print out	FD	
2.	Demand letter of the project authority/aplicant	UA	
3.	Main Application form from Part I to V as prescribed in the rules framed under forest (Conservation) Act, 1980 (FCA) with all its columns duly filled up and signed by the competent authority with date, place and official seal. All the information in Part-I of Form-A including item-wise breakup of the forest area required must be given in the form itself by expanding the columns	Part I-UA Part II to V-FD	
4.	Detailed note on Project	UA	
5.	Cost Benefit Analysis	UA	
6.	Gazette Notification of the forest area concerned	FD	
7.	Statement showing the details of forest area involved i.e. Survey No./ Coupe No/ Compartment No. etc. and item wise breakup of the forest area proposed for diversion (in the prescribed format)	UA /FD	
8.	Statement showing the details of the non-forest are involved in the proposal	UA	
9.	Justification for locating the project in forest area to be submitted by User Agency and countersigned by DCF	UA	
10.	Certificate for minimum use of forest land to be submitted by the user agency	UA & FD	
11.	Undertaking to bear the cost of compensatory afforestation duly counter signed by the DCF	UA	
12.	Undertaking for payment of NPV of the forest land	UA	
13.	Undertaking of user agency to abide by any additional condition stipulated by the Central/ state government for the protection / conservation development of forests & wildlife	UA	
14.	Status of Environment & CRZ/ Clearance under Environment (Protection) Act, 1986 wherever required	UA	
15.	Resolution of gramsabha (other than linear projects) and certified English translation and certificate of collector regarding FRA 2006, in the prescribed proforma (As per GoI Letter F.No. 11-9/98-FC(pt.), date 5/7/2013)	UA	
16.	Species wise and Girth class wise enumeration list and abstract of trees (abstract to be given at the end of list) standing on the forest area in question neatly typed or computerized and duly signed by DCF .	FD	
17.	Site Inspection report of the forest area involved in the project proposal by the DCF concerned or higher level Forest Officer in the prescribed format)	FD	

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Sr.No.	Document	To be provided by UA / FD	Page No.
18.	Details of Non forest land / degraded forest area identified for compensatory plantation viz. Survey No./ Compartment No./ Khasra No./ Khatoni No., Village, Tehsil, District etc. along with map in appropriate scale showing the boundaries of adjoining forest areas with their use in distinct colours and GPS readings	UA & FD	
19.	Detailed scheme for compensatory afforestation on identified non-forest area / degraded forest area at prevalent wage rates duly signed by DCF and counter signed by the CCF/CF concerned. The CA scheme must include all the technical details, details of work schedule and total financial outlay	FD	
20.	Certificate from the DCF, that non forest land selected for compensatory afforestation is in compact blocks and contiguous to forest areas or in closed proximity of forest areas and suitable from the management and protection point of view	FD	
21.	Suitability certificate from DFO that the land identified for compensatory afforestation is suitable for raising plantation (in the prescribed format)	FD	
22.	Details of works, if any already completed without prior permission from Govt. of India {i.e. violation of Forest (Conservation) Act / guidelines}	FD	
23.	In case of Violation of Forest (Conservation) Act, 1980 and /guidelines; the details of the persons responsible for violation	UA & FD	
24.	Certificate of Deputy Conservator of Forest showing distance regarding Historic Place/ Archeological importance	FD	
25.	Certificate of Deputy Conservator of Forest showing distance between forest area demanded for diversion and nearest Wildlife protected area in km. (National Park/ Sanctuary/ Conservation Reserve/ Community Reserve)	FD	
26.	Certificate of User Agency and DCF regarding Court Case	UA/FD	
27.	Certificate of DCF about overlapping	FD	
28.	Map of the project site/ forest area demanded clearly showing forest boundaries and adjoining areas with their land use in distinct colours in 1:50000 or any suitable scale on original Survey of India Toposheet or cadastral map	UA/FD	
29.	Index Map showing forest boundaries and a location map on a larger scale with land use of the area required duly signed by DCF/ CF concerned.	UA/FD	
30.	Index map showing both forest area for diversion and area selected for Compensatory afforestation	UA & FD	
31.	Cross section map showing present width/ earlier diverted width (if any) and proposed expansion in case on linear diversion like road etc.	UA & FD	
32.	DGPS map of forest area demanded for diversion (in case of linear diversion give few lat. Long. Readings including starting and end points. In case of block diversion give lat. long. of polygon)	UA	

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Sr.No.	Document	To be provided by UA / FD	Page No.
33.	Layout plan of project site approved by competent authority. (For non linear projects)	UA	
34.	Geo referenced digital map in shape file (For non linear diversion)	UA	
35.	Map showing alternate routes with different colours and justification of selecting the proposed route. (In case of linear diversion).	UA/FD	

Part – II Category Specific
A. Additional Checklist For Roads

Sr.No.	Document	To be provided by UA / FD	Page No.
1.	Certificate of User Agency for use of fly ash	UA	
2.	Traffic data of last five years	UA	
3.	Certificate of DCF regarding tree cutting limited to 14 mtr. (for two lane) and 22 mtr. (for four lane)	FD	

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

ANNEXURE - I

ANNEXURE - II

Demand Letter

To,
Dy. Conservator of Forest,
Chickamangaluru Division
Chickamangaluru

Respected Sir,

Sub: De-forestation of Forest land for Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)

Sir,

This Project is part of Mangalore – Chitradurga Inter Corridor Route, which connects the Mangalore port with the Golder Quadrilateral which is considered as the main life line of the Indian Road Network connecting the major metropolitan cities namely Chennai, Mumbai, Delhi, Kolkata and Chennai.
Currently all freight movement from Mangalore port tends to follow existing NH 75 to reach the Golder Quadrilateral (NH 4). The development of the proposed link from Mudigere Hand Post to Nellyadi will shorten the distance for all freight movement by 196 Km. The proposed project have 30m ROW within reserve forest area and 60m ROW in the non-forest area. In the Ghat section (Reserve forest area) the proposed road will be divided six lanes with earthen shoulder and crash barrier at one end and drain adjacent to hill slope. In the non-forest area the road will be divided four lanes with paved shoulder configuration. The proposed project road is passing through ghat section (About 22km) and rolling terrain in remaining length with least acquisition of land in forest & revenue areas

The proposed development will improve the existing connectivity, design speed, reduce congestion on proposed road and confluence point with existing highway for which diversion of **7.95 ha** of forest land required for de-forestation

Thanking you,

Yours faithfully

Project Director
NHAI, PIU, Chitradurga

S. P. Somanakatti
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Demand Letter

To,
Dy. Conservator of Forest,
Hassan Division,
Hassan

Respected Sir,

Sub: De-forestation of Forest land for Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)

Sir,

This Project is part of Mangalore – Chitradurga Inter Corridor Route, which connects the Mangalore port with the Golder Quadrilateral which is considered as the main life line of the Indian Road Network connecting the major metropolitan cities namely Chennai, Mumbai, Delhi, Kolkata and Chennai.
Currently all freight movement from Mangalore port tends to follow existing NH 75 to reach the Golder Quadrilateral (NH 4). The development of the proposed link from Mudigere Hand Post to Nellyadi will shorten the distance for all freight movement by 196 Km. The proposed project have 30m ROW within reserve forest area and 60m ROW in the non-forest area. In the Ghat section (Reserve forest area) the proposed road will be divided six lanes with earthen shoulder and crash barrier at one end and drain adjacent to hill slope. In the non-forest area the road will be divided four lanes with paved shoulder configuration. The proposed project road is passing through ghat section (About 22km) and rolling terrain in remaining length with least acquisition of land in forest & revenue areas

The proposed development will improve the existing connectivity, design speed, reduce congestion on proposed road and confluence point with existing highway for which diversion of **7.35 ha** of forest land required for de-forestation

Thanking you,

Yours faithfully

Project Director,
NHAI, PIU, Chitradurga.

S. P. Somashekhar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Demand Letter

To,
Dy. Conservator of Forest,
Mangaluru Division,
Mangaluru

Respected Sir,

Sub: De-forestation of Forest land for Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)

Sir,

This Project is part of Mangalore – Chitradurga Inter Corridor Route, which connects the Mangalore port with the Golder Quadrilateral which is considered as the main life line of the Indian Road Network connecting the major metropolitan cities namely Chennai, Mumbai, Delhi, Kolkata and Chennai.
Currently all freight movement from Mangalore port tends to follow existing NH 75 to reach the Golder Quadrilateral (NH 4). The development of the proposed link from Mudigere Hand Post to Nellyadi will shorten the distance for all freight movement by 196 Km. The proposed project have 30m ROW within reserve forest area and 60m ROW in the non-forest area. In the Ghat section (Reserve forest area) the proposed road will be divided six lanes with earthen shoulder and crash barrier at one end and drain adjacent to hill slope. In the non-forest area the road will be divided four lanes with paved shoulder configuration. The proposed project road is passing through ghat section (About 22km) and rolling terrain in remaining length with least acquisition of land in forest & revenue areas
The proposed development will improve the existing connectivity, design speed, reduce congestion on proposed road and confluence point with existing highway for which diversion of 44.83 ha of forest land required for de-forestation.

Thanking you,

Yours faithfully

Project Director
NHAI, PIU, Chitradurga

S. R. Somanagar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

ANNEXURE - III

APPENDIX

(See Rule 6)

FORM – 'A'

Form for seeking prior approval under section 2 of the proposals by the State Government and other authorities.

PART – I

(To be filled up by user agency)

1. Project Details

(i)	Short narrative of the proposal and project / scheme for which the forest land is required	The proposed Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020) is part of Mangalore – Chitradurga Inter Corridor Route, which connects the Mangalore port with the Golder Quadrilateral which is considered as the main life line of the Indian Road Network connecting the major metropolitan cities namely Chennai, Mumbai, Delhi, Kolkata and Chennai. Currently all freight movement from Mangalore port tends to follow existing NH 75 to reach the Golder Quadrilateral (NH 4). The development of the proposed link from Mudigere Hand Post to Nellyadi will shorten the distance for all freight movement by 196 Km. The proposed project have 30m ROW within reserve forest area and 60m ROW in the non-forest area. In the Ghat section (Reserve forest area) the proposed road will be divided six lanes with earthen shoulder and crash barrier at one end and drain adjacent to hill slope. In the non-forest area the road will be divided four lanes with paved shoulder configuration. The proposed project road is passing through ghat section (About 22km) and rolling terrain in remaining length with least acquisition of land in forest & revenue areas.
(ii)	Map showing the required forest land, boundary of adjoining, forest on a 1:50,000 scale map	1. **Toposheet Map** enclosed as **Annexure –XXVIII.** 2. **Index Map** enclosed as **Annexure –XXIX**
(iii)	Cost of the project	The total project cost is approximately Rs 2500 Crores.
(iv)	Justification for locating the project in forest area	Attached as **Annexure-IX**
(v)	Cost-benefit analysis (to be enclosed)	Attached as **Annexure-V**
(vi)	Employment likely to be generated	Direct and Indirect employment opportunities during construction and operation will be generated.
2	Purpose-wise breakup of the total land required	Annexed As **Annexure- VIII**

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

3	Details of displacement of people due to the project, if any	There is no displacement of people in the forest area.
(i)	Number of families	Not Applicable
(ii)	Number of Scheduled Castes/ Scheduled Tribe families	Not Applicable
(iii)	Rehabilitation Plan (to be enclosed)	Not Applicable
4	Whether clearance under Environment (Protection) Act, 1986 required? (Yes/ No)	Not required
5	Undertaking lo bear the cost of raising and maintenance of compensatory afforestation and/or penal compensatory afforestation as well 'as cost for protection and regeneration of Safely Zone, etc. as per the scheme prepared by the State Government (undertaking to be enclosed)	**Annexed As Annexure – XI & XII .**
6	Details of Certificates/ documents enclosed as required under the instructions	Certificates/Undertaking of cost best analysis, Justification of project, Payment for compensatory afforestation, certificates are enclosed etc. complete.

Signature

Project Director
NHAI, PIU, Chitradurga

S. B. Sadashivappa,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Date:- 23/03/2018
Place:- Chitradurga

State Serial No of Proposal
(To be filled up by the Nodal Officer with date of receipt)

PART – II

(to be filled up by the concerned Deputy Conservator of Forests)

State Serial No. of Proposal _____

7	Location of the Project/ Scheme	
(i)	Sate / Union Territory	
(ii)	District	
(iii)	Forest Division	
(iv)	Area of forest land proposed for diversion (if ha)	
(v)	Legal status of forest	
(vi)	Density of vegetation	
(vii)	Species-wise (scientific names) and ..... diameter ..... class-wise enumeration of trees	
(viii)	Brief note on vulnerability of the forest area to erosion	
(ix)	Approximate distance of proposed site for diversion from boundary of forest	
(x)	Whether forms part of National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Corridor etc. (if so, the details of the area and comments of the Chief Wildlife Warden to be named).	
(xi)	Whether any rare/ endangered/ unique species of flora and fauna found in the area (if so, details thereof).	
(xii)	Whether any protected archaeological/ heritage site/, defence establishment or any other important monument is located in the area'. If so, the details thereof with NOC from competent authority, if required.	
8	Whether the • requirement of forest land as proposed by the user agency in col.2 of Part-I is unavoidable and barest minimum for the project, If no, recommended area item-wise with details of alternatives examined.	
9	Whether any work in violation of the Act has been earned out (Yes/No). if yes, details of the; same including period of work done, action taken on erring officials, Whether work, in violation is still in progress.	
10	Details of compensatory afforestation scheme:	

Annexure-III

(i)	Details of non-forest area/ degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch	
(ii)	Map showing non-forest/ area identified for compensatory afforestation and adjoining forest boundaries.	
(iii)	Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc.	
(iv)	Total financial outlay for compensatory afforestation scheme.	
(v)	Certificates from competent authority regarding suitability of area identified for compensatory afforestation and from management of point of view. (To be signed by the concerned Deputy Conservator of Forests)	
11	Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col.7 (xi, xii), 8 and 9 above	
12	Division/ District Profile:	
(i)	Geographical area of the district.	
(ii)	Forest area of the district	
(iii)	Total Forest area diverted since 1980 with number of cases.	
(iv)	Total compensatory afforestation stipulated in the district/division since 1980 on a) Forest land including penal compensatory afforestation,	
	b) Non-forest land	
13	Specific recommendations of the DCF for acceptance or otherwise of (he proposal with reasons.	

Signature

Name

Official Seal

Date:-
Place:-

Annexure-III

PART-III

(To be filled by the concerned Conservator of Forests)

14	Whether site, where the forestland involved is located has been inspected by concerned Conservator of Forests (Yes/No). If yes, the date of inspection & observations made in form of inspection note to be enclosed	
15	Whether the concerned Conservator of Forests agree with the information given in Part-B and the recommendations of Deputy Conservator of Forests.	
16	Specific recommendation of concerned Conservator of Forests for acceptance or otherwise of the proposal with detailed reasons.	

Conservator of Forests

Signature

Name

Official Seal

Date:-_____

Place:-_____

Annexure-III

PART-IV

(To be filled in by the Nodal Officer or Principal Chief Conservator of Forests or Head of Forest department)

17	Detailed opinion and specific recommendation of the State Forest Department for acceptance of otherwise of the proposal with remarks. (While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon)	

Signature

Name & Designation

(Official Seal)

Date:-_____

Place:-_____

Annexure-III

PART- V

(To be filled in by the Secretary in charge of Forest Department or by any other authorised officer of the State Government not below the rank of an Under Secretary)

18	Recommendation of the State Government: (Adverse comments made by any officer or authority in Part-B or Part-C or Part-D above should be specifically commented upon)	

Signature

Name & Designation

(Official Seal)

Date:-_____

Place:-_____

ANNEXURE - IV

Project Description

E.1 GENERAL

Clause 1.1 of Appendix – I of Contract Agreement, states that "The NHAI has been entrusted with the assignment of **Development of Economic Corridors, Inter-Corridors and Feeder Routes preliminary to improve freight movement in the Country**."

In pursuance of the above, LEA Associates South Asia Private Limited have been appointed as Consultants by NHAI to carry out the "**Preparation of Detailed Project Report for Development of Economic Corridors, Inter-Corridors, Feeder Routes and Coastal Road primarily to improve the freight movement in the Country (LOT-3/ Andhra Pradesh, KARNATAKA, GOA and Kerala /Package-2)**."

The Package stated for the preparation of DPR has the following corridors:

Sl. No.	Classification	Name of Corridor	Remarks
1	**Inter Corridor Route (ICR)**	Mangalore - Chitradurga	Connecting Bantwal – Chitradurga
2	**Inter Corridor Route (ICR)**	Hubli - Hospet	Connecting Koppal - Metgal
3	**Feeder Route (FR)**	Dharwad - Londa	The stretch has been deleted from the scope of work at the Inception Stage

E.2 PROJECT DESCRIPTION

- **Bantwal – Holelkere – Chitradurga Section**

The corridor Mangalore – Chitradurga is an important link as an "Inter Corridor Route" which connects Mangalore port with the Golden Quadrilateral which is considered as the main life-line of the Indian Road Network connecting the major metropolitan cities namely Chennai – Mumbai – Delhi – Kolkata – Chennai.

Koppal-Metgal Section

E.3 PROJECT LENGTH

The Consultants designed a tentative alignment based on the evaluation of the major bypasses and realignments. The tentative design lengths are as follows:

Corridor Details	Tentative Design Length (km)
Corridor Chitradurga – Junction to NH 75 near Nellyadi with a link to Dharmasthala	230.020
Corridor Koppal – Metgal	27.391

The total length of the Project comes out to be 287.105 Km

E.4 PROPOSED ROW REQUIRMENT

a) The minimum land requirement for 4/6 laning is 60m for all locations other than National Parks, Wildlife Sanctuaries and Protected and Reserve Forests.

c) In restricted areas like Reserve Forest / restricted areas, 30m of RoW shall be acquired to minimize the environmental impacts.

The design land requirements for the proposed corridors are as follows:

S. P. Somashekar,
Dy. (Tech) & Project Director
NHAI, PIU, Chikkaballapura

The design land requirements for the proposed corridors are as follows:

Table 0-1: Proposed RoW for Bantwal Chitradurga Road Section

S No.	Chainage (Km)		Length (Km)	ROW Width (m)	Remarks
1	0+000	195+000	195	60	Private land
2	195+000	237+000	42	30	Forest land / Ghat Section
3	237+000	242+314	5.31	60	Private land

Table 0-2: Proposed RoW for Dharmasthala Link Road

S No.	Chainage (Km)		Length (Km)	ROW width (m)	Remarks
1	0+000	17+400	17.40	60	Private land

Table 0-3: Proposed RoW for Koppal Metgal Road Section

S No.	Chainage (Km)		Length (Km)	ROW width (m)	Remarks
1	0+000	27+391	27.391	60	Private land

E.5 SUMMARY OF THE ALIGNMENT

The design alignment for the corridor sections considering the realignment locations, bypasses and geometric improvements are as follows:

Table 0-4: Improvement of Bantwal Chitradurga Road Section

S No.	Chainage (Km)		Length (Km)	Section
1	0+000	9+000	9000	Chitradurga Bypass
2	9+000	17+000	8000	Existing Widening
3	17+000	21+400	4400	Geometric Improvement
4	21+400	27+500	6100	Existing Widening
5	27+500	28+300	800	Geometric Improvement
6	28+300	29+500	1200	Existing Widening
7	29+500	35+000	5500	Holalkere Bypass
8	35+000	40+700	5700	Realignment
9	40+700	41+200	500	Existing Widening
10	41+200	42+300	1100	Geometric Improvement
11	42+300	43+000	700	Existing Widening
12	43+000	44+600	1600	Geometric Improvement
13	44+600	49+800	5200	Existing Widening
14	49+800	54+200	4400	Geometric Improvement
15	54+200	63+260	9060	Hosadurga Bypass
16	63+260	66+000	2740	Geometric Improvement
17	66+000	67+800	1800	Existing Widening
18	67+800	68+900	1100	Geometric Improvement
19	68+900	74+000	5100	Existing Widening
20	74+000	75+600	1600	Geometric Improvement
21	75+600	77+000	1400	Existing Widening

S. P. Somashekar, DGM (Tech) & Project Director, NHAI, PIU, Chikkaballapur

S No.	Chainage (Km)		Length (Km)	Section
22	77+000	80+400	3400	Antargatta Realignment
23	80+400	82+500	2100	Existing Widening
24	82+500	83+400	900	Geometric Improvement
25	83+400	84+100	700	Existing Widening
26	84+100	84+700	600	Geometric Improvement
27	84+700	86+700	2000	Existing Widening
28	86+700	94+300	7600	Hinalluru Realignment
29	94+300	96+900	2600	Existing Widening
30	96+900	98+540	1640	Geometric Improvement
31	98+540	98+900	360	Existing Widening
32	98+900	109+100	10200	Kadur Bypass
33	109+100	113+400	4300	Existing Widening
34	113+400	116+900	3500	Geometric Improvement
35	116+900	117+900	1000	Existing Widening
36	117+900	119+800	1900	Geometric Improvement
37	119+800	126+000	6200	Sakharayapatna Realignment
38	126+000	128+600	2600	Existing Widening
39	128+600	130+000	1400	Geometric Improvement
40	130+000	132+000	2000	Existing Widening
41	132+000	133+300	1300	Geometric Improvement
42	133+300	134+300	1000	Existing Widening
43	134+300	136+400	2100	Geometric Improvement
44	136+400	136+900	500	Existing Widening
45	136+900	138+000	1100	Geometric Improvement
46	138+000	152+900	14900	Chikkamagaluru Bypass
47	152+900	153+260	360	Existing Widening
48	153+260	153+800	540	Geometric Improvement
49	153+800	154+200	400	Existing Widening
50	154+200	154+700	500	Geometric Improvement
51	154+700	154+860	160	Existing Widening
52	154+860	158+200	3340	Realignment
53	158+200	160+500	2300	Existing Widening
54	160+500	162+340	1840	Realignment
55	162+340	162+700	360	Existing Widening
56	162+700	164+000	1300	Geometric Improvement
57	164+000	164+660	660	Existing Widening
58	164+660	164+960	300	Geometric Improvement
59	164+960	169+000	4040	Existing Widening
60	169+000	177+000	8000	Mudigere bypass
61	177+000	179+000	2000	Existing Widening & Ghat Section
62	179+000	182+400	3400	Partial Realignment & Ghat Section
63	182+400	183+100	700	Existing Widening & Ghat Section

S. P. Somasekar
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

S No.	Chainage (Km)		Length (Km)	Section
64	183+100	186+200	3100	Partial Realignment & Ghat Section
65	186+200	187+700	1500	Existing Widening & Ghat Section
66	187+700	188+000	300	Geometric Improvement & Ghat Section
67	188+000	188+500	500	Existing Widening & Ghat Section
68	188+500	189+000	500	Geometric Improvement & Ghat Section
69	189+000	190+300	1300	Existing Widening & Ghat Section
70	190+300	190+800	500	Geometric Improvement & Ghat Section
71	190+800	191+250	450	Existing Widening & Ghat Section
72	191+250	191+620	370	Geometric Improvement & Ghat Section
73	191+620	192+600	980	Existing Widening & Ghat Section
74	192+600	194+140	1540	Partial Realignment & Ghat Section
75	194+140	194+900	760	Existing Widening & Ghat Section
76	194+900	218+700	23800	Ghat Section
77	218+700	220+500	1800	Geometric Improvement & Ghat Section
78	220+500	221+000	500	Existing Widening & Ghat Section
79	221+000	222+600	1600	Geometric Improvement & Ghat Section
80	222+600	223+340	740	Existing Widening & Ghat Section
81	223+340	224+000	660	Geometric Improvement & Ghat Section
82	224+000	225+000	1000	Existing Widening & Ghat Section
83	225+000	228+300	3300	Partial Realignment & Ghat Section
84	228+300	229+000	700	Existing Widening & Ghat Section
85	229+000	229+600	600	Geometric Improvement & Ghat Section
86	229+600	230+340	740	Existing Widening & Ghat Section
87	230+340	231+260	920	Geometric Improvement & Ghat Section
88	231+260	231+940	680	Existing Widening & Ghat Section
89	231+940	235+200	3260	Partial Realignment & Ghat Section
90	235+200	237+000	1800	Existing Widening & Ghat Section
91	237+000	239+120	2120	Realignment & Ghat Section
92	239+120	242+314	3194	Existing Widening & Ghat Section

Table 0-5: Improvement of Koppal Metgal Road Section

Sl No.	Chainage (Km)		Length (Km)	Section
1	0+000	9+500	9.500	Koppal Bypass
2	9+500	20+900	11.400	Existing Widening
3	20+900	22+500	1.600	Realignment
4	22+500	24+800	2.300	Existing Widening
5	24+800	27+391	2.591	Realignment

E.6 PROPOSAL FOR THE STRUCTURES

Based on the preliminary ground reconnaissance survey the following structures has been proposed for the project corridors.

Table 0-6: Structures for Bantwal Chitradurga Road Section

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Sl. No	Structure Type	Numbers
1	Flyover	1
2	VUP (Vehicular Under Pass)	20
3	LVUP (Low Vehicular Under Pass)	19
4	Unidirectional VUP	8
5	Major Bridges	13
6	Minor Bridges	48
7	RoB	3
8	Box Culverts	510

Table 0-7: Structures for Dharmasthala link Road

Sl. No	Structure Type	Numbers
1	Flyover	-
2	VUP (Vehicular Under Pass)	4
3	LVUP (Low Vehicular Under Pass)	2
4	Unidirectional VUP	-
5	Major Bridges	2
6	Minor Bridges	-
7	RoB	-
8	Box Culverts	37

Table 0-8: Structures for Koppal Metgal Road Section

Sl. No	Structure Type	Numbers
1	Flyover	-
2	VUP (Vehicular Under Pass)	3
3	LVUP (Low Vehicular Under Pass)	3
4	Unidirectional VUP	2
5	Major Bridges	2
6	Minor Bridges	4
7	RoB	1
8	Box Culverts	22

E.7 PRELIMINARY ENVIRONMENTAL ASSESSMENT

The proposed alignment traverses through districts of Dakshina Kannada, Chikmagalur, Chitradurga and Koppal in the Stata of Karnataka. Based on primary and secondary survey conducted by the team of LASA it has been established that the route selected for development of road harbors environmental sensitive areas like ***Reserve/Protected Forest, Wildlife Sanctuary, Western Ghat Eco-Sensitive Zone, etc***. It attracts various Gazette Notifications issued by Government of India and thus need approval before implementation of the project.

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chikmagalur.

The details of Western Ghat Eco-Sensitive Zone within PROW are given in table below

Table 0-9: Village /District Wise project alignment section within Western Ghat Eco –Sensitive Zone Notification

Nellyadi Junction of NH-75 (Old NH – 48) to Mudigere Section.

S. No	District	Taluka	Village
1.	Manglore	Puttur	Kowkradi
2.	Manglore	Beltangadi	Rekhya
3.	Manglore	Beltangadi	Shibaji
4.	Manglore	Beltangadi	Shishila
5.	Manglore	Mudigere	Byrapura
6.	Manglore	Mudigere	Byrapura Estate
7.	Manglore	Mudigere	Hosakere
8.	Usabage	Mudigere	Urubage

Bantwal to Mudigere Section

S. No	District	Taluka	Village
1.	Manglore	Beltangadi	Charmady
2.	Manglore	Mudigere	Attigere
3.	Manglore	Mudigere	Balur

Mudigere to Kadur Section

S. No	District	Taluka	Village
1.	Chikmagalur	Chikmagalur	Churchugudde Kaval

(Source Draft Western Ghats Eco-Sensitives Notification, 4th September, 2015; S.O. 2435 (E)

Three National Parks are located within 10 km from the proposed alignment. Prior to start of work NoC from Standing Committee of national Board for Wildlife is required as per Writ Petition No. 460/2004; Goa Foundation V/S Union of India; Order Dated 04.12.2006. The list of NP/WLS is given in table below.

Table 0-10: List of National Park/Wildlife Sanctuary Eco – Sensitive Zone traverse by PROW

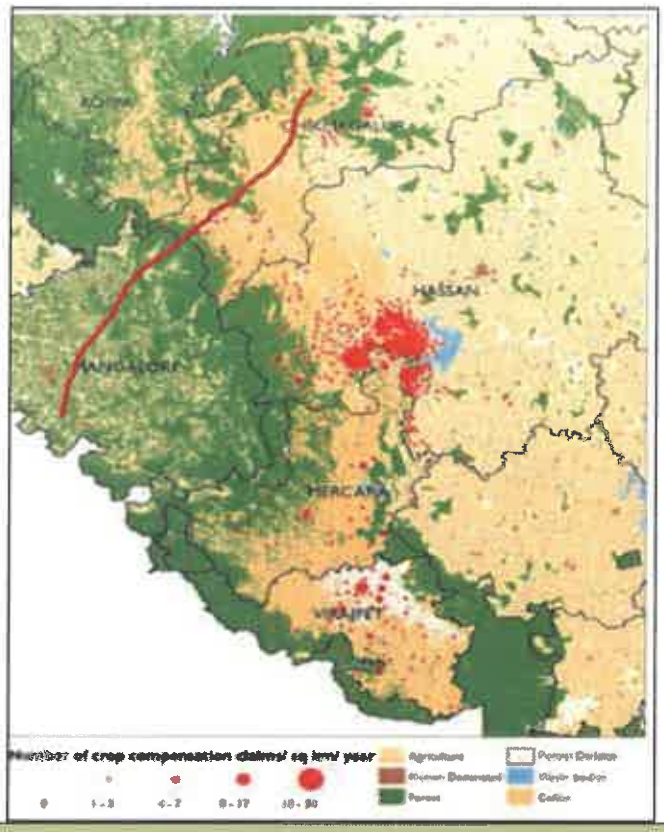
S.No	Name of National Parks/ Wildlife Sanctuary	Details of Notification
1.	Kudremukh National Park	G.O.No.AHFF.42.FWG.87, dated : 2nd September 1987
2.	Bhadra Wildlife Sanctuary	No.FEE-58-FWL-96, dated: 09-03-1998 No.FEE-177-FWL-2008(1) to 2008(6), dated: 28-04-2010
3.	Jogoimatti Wildlife Sanctuary	FEE 77 FWL 2015 Dt.23-12-2015

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Elephant Corridor Issues:

Karnataka State has the highest population of the Asian elephant (Elephas maximus) in India. It is estamaietde that the state has about 5,300 -6,200 wild elephants over an area of 14, 500 sq.km, according to census 2010, which account to one fifth of total elephant population in India. The elephant are mostly concentrated Mysore elephant reserve and in the Eastern and Western Ghats in the southern region of the state

Thus based on the Figure Elephant Crop Raiding Map, we can conclude that elephant corridor exist along our proposed alignment at numerous location, which need to be identified during field visit, interaction with the villagers and interaction with the District Forest Officer (DFO) and Rangers in concern forest division.



Elephant Issues in Chikmagalur District:

Large population (numbering several thousand reported across Chikmagalur – Kodagu – Mysore plateau eastward through the Eastern Ghats up to Bannerghatta national Park near Bangaluru City.

The elephant population estimated by sample block count method in Chikmagalur district:

Elephant habitat of 139 Km.sq; Density (Km²) – 0.1; Mean Count - 11

(Source: Report of Karnataka Elephant Task Force; Submitted to High Court of Karnataka; September 2012).

1. Forest Area:

The proposed project traverse through forest area like Village Forest, District Forest, Protected Forest and Reserve Forest notified protected area under The Karnataka Forest Act, 1963 (Karnataka Act No.5 of 1964), Karnataka Forest Rules, 1969, Karnataka Forest (Amendment) Rule 2016, dated 28th September 2016, The Karnataka Forest (Amendment) Act, 2016; dated 26th July, 2016; Forest (Conservation) Act 1980, Forest (Conservation) Amendment Act, 1988; and Forest Conservation Rule 1981, 2003 & 2017. List of Forest area falling within the PROW are listed in table below.

Table 0-11: List of Forest (Tentative) Reported along the PROW

S.No	Road Section	Name of Forest	Type of Forest
a	**Bantwal to Mudegiri Section (NH-73)**		
1		Kodyamale	Reserve Forest
2		Pilatadetto	Reserve Forest
3.		Open Mixed Jungle	Unclassed
4.		Dharmastala Mundaje	Reserve Forest
5.		Charmadi Kanapadi	Reserve Forest

S. P. Somashekar,
DGM (Tech) & Project Director
NHAI, PIU, Chitradurga.

S.No	Road Section	Name of Forest	Type of Forest
6.		Baluru	Reserve Forest
b	**Mudegiri to Kadu (NH-173)**		
7.		Mattavara	Reserve Forest
8.		Churchi Gudda	Reserve Forest
9.		Kalasapur	Reserve Forest
c	**Kuda (NH-173) to Tamatadahalli (SH-153)**		
d	**Tamatadahalli to Hosadurga**		
E	**Koppal to Metgal**		
F	**Nellyadi Junction (Old NH-48) to Mudigere**		
10		Miyar	Reserve Forest
11		Shiradi Shisla	Reserve Forest
12		Balur	Reserve Forest
13		Open mixed jungle at Holagen	Unclassed
14		Open Mixed jungle at Daradavalli village	Unclassed

Project Benefits

Currently all freight movement from Mangalore port tends to follow existing NH 75 to reach the Golder Quadrilateral (NH 4). The development of the proposed link from Mudigere Hand Post to Nellyadi will shorten the distance for all freight movement by 196 Km. The proposed project have 30m ROW within reserve forest area and 60m ROW in the non-forest area. In the Ghat section (Reserve forest area) the proposed road will be divided six lanes with earthen shoulder and crash barrier at one end and drain adjacent to hill slope. In the non-forest area the road will be divided four lanes with paved shoulder configuration. The proposed project road is passing through ghat section (About 22km) and rolling terrain in remaining length with least acquisition of land in forest & revenue areas

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

ANNEXURE - V

COST BENEFIT ANALYSIS

Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020) of length 66.72 Km

Table- B Estimation of cost of forest diversion

SN	Parameters	Remarks	Response
1.	Ecosystem services losses due to proposed forest diversion	Economic value of loss of eco-system services due to diversion of forests shall be the net present value (NPV) of the forest land being diverted as prescribed by the Central Government (MoEF& CC). *Note: In case of National Parks the NPV shall be ten (10) times the normal NPV and in case of Wildlife Sanctuary the NPV shall be five (5) times the normal NPV or otherwise prescribed by the ministry or any other competent authority*	The forest area under diversion is protected forest falling within PROW. The plantation has been done by the forest department. Tropical thorn forest and tropical Dry Evergreen Forests (Eco Class -I), and Forest canopy cover is more than 70% of Very Dense Forest (VDF) Cost has been considered for NPV: **NPV- 10,43,000 X Forest area (60.13Ha.) = INR 6,27,15,590/-** (Source: F.No.5-3/2007 –FC dated 05.02.2009)
2.	Loss of animal husbandry productivity, including loss of fodder -	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum	**Yes : INR** 62,71,559
3.	Cost of human resettlement	To be quantified and expressed in monetary terms as per approved R&R plan	**Yes: INR** – 47.08 Crore
4.	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion	N.A
5.	possession value of forest land diverted	30% of environmental costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forestland whichever is maximum	**Yes: INR- 1,88,14,677**

S. P. Sonnebekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

SN	Parameters	Remarks	Response
6.	Cost of suffering to oustees	The social cost of rehabilitation of oustees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what oustees should have earned in two years had he not been shifted.	**No**
7.	Habitat Fragmentation Cost	While the relationship between fragmentation and forest goods and services is complex, for the sake of simplicity the cost due to fragmentation has been. pegged at 50% of NPV applicable as a thumb rule.	**Yes , INR- 3,13,57,795**
8.	Compensatory afforestation and soil & moisture conservation cost	The actual cost of compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted value	**Yes, Cost of compensatory afforestation:27,05,85,000INR / -** **Yes soil & Moisture conservation cost – 29,21,716 Lakh**

Table-C - Existing guidelines for estimating benefits of forest-diversion in CBA

SN	Parameters	Remarks	Response
1.	Increase in productively attribute to the specific project	To be quantified & expressed in monetary terms avoiding double counting	All the freight movement from Manglore port tends to follow existing NH 75 to reach the Golder Quadrilateral (NH4). The development of the proposed link will shorten the distance for all freight movement by 196km. The Fuel saving will be tremendous. It will also boost the local economy at regional level. The area of Chikmagaluru is having coffee estates. Non-existence of road lead to loss to farmers annualy in crore. The existing road is fair whether roads and during monsoon or when its rain the movement is hampered, leading to crop loss.
2.	Benefits to economy due to the specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project	The proposed NH-173 from Mudigere hand post at junction of NH 73 to Nellyadi Junction at km 270.600 of NH 75 (Old NH 48) Design Chainage from km 163+300 to 230+020) will provide uninterrupted free flow of traffic and shall result in: 1. Will result in proper utilization of Manglore Port. 2. Saving in travel Time & Cost. Development of the proposed link will shorten the distance for all freight movement by 196 Km. 3. Saving in forgein exchange due to less consumption off fuel. 4. Increase in income of truck, bus, taxi, etc. Owner as they will be

S. R. Somashekar
DGM (Tech) & Project Director
NHAI, PIU, Chitradurga.

SN	Parameters	Remarks	Response
			able to communicate maximum distance in short time. 5. Reduction in accidents as it will provide safe travel, 6. Will act as catalyst to the industrial development. 7. Will increase the local tourism
3.	No. of population benefited due to specific project	As per the Detailed project report.	It is expected that at least people from whole of the district will be benefited due to proposed road. The proposed road will pass through three district having about 55,52,223 Lakhs population (Census: 2011) who will be directly benefitted. The indirect benefit population is unaccountable.
4.	Economic benefits due to of direct and indirect employment due to the project	As per the Detailed project report.	Project Shall directly give employment to around 250-300 people during construction phase of project (four year)
5.	Economic benefits due. to Compensatory afforestation	Benefits from such compensatory forestation accruing over next 50 years monetised and discounted to the present value should be included as benefits' of compensatory afforestation. *For benefits of CA the guideline of the Ministry for NPV estimation may be consulted.	**Yes, INR: 76.044 crore**

Date: 23/03/2018

Place: Chitradurga

S. P. Somashekar, Deputy Director (Tech) & Project Director, NHAI, PIU, Chitradurga.

Project Director
National Highway Authority of India
PIU- Chitradurga

ANNEXURE - VI

ANNEXURE - VII

Forest & Non Forest Area Calculation Sheet

S.No.	Forest Division	Type of Forest	Package	Reach	Village Name	Starting Chainage	Ending Chainage	Non Forest Area (m2.) Both	Non Forest Land Ha.	Forest Area (m2.) Both	Forest Land Ha.
1	Chickamangaluru		PKG-2		Mudigere (Rural)	163+300	163+450	8666.364	0.87		0.00
2	Chickamangaluru				Helekote	163+450	167+720	255989.268	25.60		0.00
3	Chickamangaluru				Bakki	167+720	168+140	25743.837	2.57		0.00
4	Chickamangaluru				Daradahalli	168+140	168+970	49778.231	4.98		0.00
5	Chickamangaluru				Bakki	168+970	169+310	20415.093	2.04		0.00
6	Chickamangaluru				Pattaduru	169+310	169+610	18139.106	1.81		0.00
7	Chickamangaluru				Jogannanakere	169+610	170+520	54336.844	5.43		0.00
8	Chickamangaluru				Kadidal	170+520	171+925	84445.507	8.44		0.00
9	Chickamangaluru				Halekere	171+925	174+240	138940.606	13.89		0.00
10	Chickamangaluru				Gowdahalli	174+240	174+780	32450.232	3.25		0.00
11	Chickamangaluru				Hemmadi	174+780	176+200	84820.538	8.48		0.00
12	Chickamangaluru				Urubage	176+200	180+215	216728.328	21.67		0.00
13	Chickamangaluru				Hosakere	180+215	181+170	28622.849	2.86		0.00
14	Chickamangaluru				Byrapura	181+170	184+690	105583.223	10.56		0.00
15	Chickamangaluru				Byrapura Estate	184+690	189+500	143832.463	14.38		0.00
16	Hassan				Kumarahalli	189+500	190+000	15521.198	1.55		0.00
	Hassan	Kabbinale Reserve Forest			Kumarahalli	190+000	192+450		0.00	73532.141	7.35
17	Chickamangaluru	Kabbinale Reserve Forest			Byrapura	192+450	192+700		0.00	7464.302	0.75
	Chickamangaluru				Byrapura	192+700	197+400	140993.304	14.10		0.00
	Chickamangaluru	Baluru Reserve Forest			Byrapura	197+400	199+800		0.00	71995.049	7.20
	Chickamangaluru				Byrapura	199+800	200+825	30741.497	3.07		0.00
18	Mangaluru	Miyar Reserve Forest			Shishila	200+825	206+200		0.00	161251.012	16.13
	Mangaluru				Shishila	206+200	208+650	73500.069	7.35		0.00
	Mangaluru	Miyar Reserve Forest			Shishila	208+650	208+800		0.00	4499.549	0.45
	Mangaluru				Shishila	208+800	211+200	71998.869	7.20		0.00
	Mangaluru	Miyar Reserve Forest			Shishila	211+200	212+510		0.00	39258.154	3.93
19	Mangaluru	Miyar Reserve Forest			Shibaje	212+510	215+100		0.00	77739.286	7.77
	Mangaluru				Shibaje	215+100	216+060	28914.111	2.89		0.00
20	Mangaluru				Hathyadka	216+060	217+515	43566.204	4.36		0.00
21	Mangaluru				Rekhya	217+515	218+490	29145.831	2.91		0.00
22	Mangaluru				Hathyadka	218+490	219+550	30372.669	3.04		0.00
	Mangaluru	Porkal Reserve Forest			Hathyadka	219+550	220+200		0.00	20998.724	2.10
	Mangaluru				Hathyadka	220+200	221+200	29996.986	3.00		0.00
	Mangaluru	Porkal Reserve Forest			Hathyadka	221+200	221+800		0.00	17999.996	1.80
	Mangaluru				Hathyadka	221+800	222+645	25340.047	2.53		0.00
23	Mangaluru				Kowkaradi	222+645	223+400	22659.667	2.27		0.00
	Mangaluru	Porkal Reserve Forest			Kowkaradi	223+400	224+700		0.00	38998.029	3.90
	Mangaluru				Kowkaradi	224+700	227+100	71998.478	7.20		0.00
	Mangaluru	Porkal Reserve Forest			Kowkaradi	227+100	230+020		0.00	87604.613	8.76
								1883241.419	188.324	601340.855	60.134

DGM (Tech) NHAI, PIU, Chikkamagaluru

ANNEXURE - VIII

Annexure VIII

DETAILS OF THE NON-FOREST AREA INVOLVED IN DISTRICT, KARNATAKA (Purpose-Wise Breakup)

The proposed project is linear project.

Sl. No.	Name of District	Land Acquisition Details in Ha	Area Involved as Forest in Ha	Area Involved as Non forest land in Ha
1	Chickmangaluru	124.48	7.95	116.53

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Annexure VIII

DETAILS OF THE NON-FOREST AREA INVOLVED IN DISTRICT, KARNATAKA (Purpose-Wise Breakup)

The proposed project is linear project.

Sl. No.	Name of District	Land Acquisition Details in Ha	Area Involved as Forest in Ha	Area Involved as Non forest land in Ha
1	Hassan	8.90	7.35	1.55

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Annexure VIII

DETAILS OF THE NON-FOREST AREA INVOLVED IN DISTRICT, KARNATAKA (Purpose-Wise Breakup)

The proposed project is linear project.

Sl. No.	Name of District	Land Acquisition Details in Ha	Area Involved as Forest in Ha	Area Involved as Non forest land in Ha
1	Mangaluru	87.58	44.83	42.75

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chikkaballapura.

ANNEXURE - IX

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST LAND

The proposed project is Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020) of length 67.57 Km. The alignment is crossing Chikmangaluru, Hassan and Mangaluru Districts. The Greenfield alignment is passing through reserve forests of Chikmangaluru, Hassan and Mangaluru Division. The alignment has been fixed based on technical, economic, social & environmental consideration. It is not feasible to avoid the forest areas but minimize the impact with proposal of suitable measures.

S. P. Somashekar,
DGM (Tech) & Project Director
NHAI, PIU, Chitradurga

Date: 23/03/2018
Place: Chitradurga

ANNEXURE - X

Annexure-X

CERTIFICATE

I, the Project Director, certify that proposed Forest Land is bare minimum and unavoidable as alignment has been fixed based on Technical, Environment and Social consideration.

Date: 23/03/2018

Place: Chitradurga

Signature

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga

Project Director
NHAI, PIU, Chitradurga

Signature

Deputy Conservator of Forests
Chickamangaluru

Annexure-X

CERTIFICATE

I, the Project Director, certify that proposed Forest Land is bare minimum and unavoidable as alignment has been fixed based on Technical, Environment and Social consideration.

Date: 23/03/2018
Place: Chitradurga

Signature

S. M. Somashekar,
Project Director,
NHAI, PIU, Chitradurga.

Project Director
NHAI, PIU, Chitradurga

Signature

Deputy Conservator of Forests
Hassan

Annexure-X

CERTIFICATE

I, the Project Director, certify that proposed Forest Land is bare minimum and unavoidable as alignment has been fixed based on Technical, Environment and Social consideration.

Date: 28/03/2018

Place: Chitradurga

Signature

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI PIU, Chitradurga.

Project Director
NHAI PIU, Chitradurga

Signature

Deputy Conservator of Forests
Mangaluru

ANNEXURE - XI

Annexure-XI

UNDERTAKING

Certified that the project authority is agreed to bear the cost as determined by the Forest Department of compensatory afforestation in **Chickamangaluru District** for land ad-measuring **7.95 ha**. of **FOREST** area.

Date: 23/03/2018

Place: Chitradurga

Signature

Project Director
NHAI, PIU, Chitradurga

S. Prabhakar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga

Signature

Deputy Conservator of Forests
Chickamangaluru

Annexure-XI

UNDERTAKING

Certified that the project authority is agreed to bear the cost as determined by the Forest Department of compensatory afforestation in **Hassan District** for land ad-measuring **7.35 ha**. of **FOREST** area.

Date: 23/03/2018

Place: Chitradurga

Signature

Project Director
NHAI, PIU, Chitradurga

Signature

Deputy Conservator of Forests
Hassan

Annexure-XI

UNDERTAKING

Certified that the project authority is agreed to bear the cost as determined by the Forest Department of compensatory afforestation in **Mangaluru District** for land ad-measuring **44.83 ha**. of **FOREST** area.

Date: 23/03/2018

Place: Chitradurga

Signature

Project Director,
NHAI, PIU, Chitradurga

S. P. Sathyanarayana
Project Director
DGM (Tech)
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Mangaluru

ANNEXURE - XII

UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE OF THE FOREST LAND

This is to certify that we hereby agree to bear the cost of Net Present Value (NPV) in connection with proposal for diversion of 60.13 Ha forest land for Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH 173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020) under the Forest (Conservation) Act. 1980 as per guidelines adopted by the Forest Department/the Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India.

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Date: 23/03/2018
Place: Chitradurga

ANNEXURE – XIII

Annexure-XIII

UNDERTAKING

I, the undersigned, on behalf of National Highways Authority of India will abide by any additional condition stipulated by the central/ state government for the protection/ conservation/ development of forests & wildlife in **7.95 ha** area.

Date: 23/03/2018

Place: Chitradurga

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Chickamanguluru

Annexure-XIII

UNDERTAKING

I, the undersigned, on behalf of National Highways Authority of India will abide by any additional condition stipulated by the central/ state government for the protection/ conservation/ development of forests & wildlife in **7.35 ha** area.

Date: 23/03/2018

Place: Chitradurga

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Hassan

Annexure-XIII

UNDERTAKING

I, the undersigned, on behalf of National Highways Authority of India will abide by any additional condition stipulated by the central/ state government for the protection/ conservation/ development of forests & wildlife in **44.83 ha** area.

Date: 23/03/2018
Place: Chitradurga

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Mangaluru

ANNEXURE – XIV

Annexure-XIV

STATUS OF ENVIRONMENT & CRZ CLEARANCE UNDER ENVIRONMENT (PROTECTION) ACT, 1986 WHEREVER REQUIRED

As per EIA Notification Amendment dated 22nd August 2013, the project was exempted from the requirement of Environmental Clearance

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

ANNEXURE – XV

Annexure-XV

CERTIFICATE OF COLLECTOR REGARDING FRA 2006

ANNEXURE – XVI

SPECIES WISE AND GIRTH CLASS WISE LIST AND ABSTRACT OF TREES

(TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XVII

SITE INSPECTION REPORT OF CONCERNED DCF OR HIGHER LEVEL FOREST OFFICER

(TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XVIII

DETAILS OF NON FOREST LAND / DEGRADED FOREST LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

(INFORMATION TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XIX

DETAILED SCHEME FOR COMPENSATORY AFFORESTATION

(INFORMATION TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XX

CERTIFICATE FROM THE DCF, THAT NON FOREST LAND SELECTED FOR COMPENSATORY AFFORESTATION IS IN A COMPACT BLOCKS AND CONTIGUOUS TO FOREST AREAS OR IN CLOSED PROXIMITY OF FOREST AREAS AND SUITABLE FROM THE MANAGEMENT AND PROTECTION POINT OF VIEW

(INFORMATION TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XXI

SUITABILITY CERTIFICATE FROM DFO FOR THE AREA IDENTIFIED FOR COMPENSATORY AFFORESTATION.

(INFORMATION TO BE PROVIDED BY FOREST DEPARTMENT).

ANNEXURE – XXII

Annexure-XXII

DETAILS OF WORKS, IF ANY ALREADY COMPLETED WITHOUT PRIOR PERMISSION FROM GOVT. OF INDIA (i.e., VIOLATION OF FOREST (CONSERVATION) ACT / GUIDELINES)

No, Work has been carried out in the forest area proposed for diversion.

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

ANNEXURE – XXIII

Annexure-XXIII

IN CASE OF VIOLATION OF FOREST (CONSERVATION) ACT, 1980 AND / OR GUIDELINES; THE DETAILS OF THE PERSONS RESPONSIBLE FOR VIOLATION

(NOT APPLICABLE)

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga

Signature

Deputy Conservator of Forests
Chickamangaluru

Annexure-XXIII

IN CASE OF VIOLATION OF FOREST (CONSERVATION) ACT, 1980 AND / OR GUIDELINES; THE DETAILS OF THE PERSONS RESPONSIBLE FOR VIOLATION

(NOT APPLICABLE)

Signature

Project Director
NHAI, PIU, Chitradurga

B. Rameshekar
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Hassan

Annexure-XXIII

IN CASE OF VIOLATION OF FOREST (CONSERVATION) ACT, 1980 AND / OR GUIDELINES; THE DETAILS OF THE PERSONS RESPONSIBLE FOR VIOLATION

(NOT APPLICABLE)

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Mangaluru

ANNEXURE – XXIV

CERTIFICATE OF DFO REGARDING HISTORIC PLACE/ARCHAEOLOGICAL IMPORTANCE

(TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XXV

CERTIFICATE OF DEPUTY CONSERVATOR OF FOREST SHOWING DISTANCE BETWEEN FOREST AREA DEMANDED FOR DIVERSION AND NEAREST WILDLIFE PROTECTED AREA IN KM. (NATIONAL PARK/ SANCTUARY/ CONSERVATION RESERVE/ COMMUNITY RESERVE)

(INFORMATION TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XXVI

Annexure-XXVI

CERTIFICATE OF USER AGENCY AND DCF REGARDING COURT CASE

I, hereby, certify that no court case is pending against proposed diversion of **7.95 ha.** Forest land, in favour of National Highways Authority of India for construction of Six lane configuration.

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forest
Chickamangaluru

Annexure-XXVI

CERTIFICATE OF USER AGENCY AND DCF REGARDING COURT CASE

I, hereby, certify that no court case is pending against proposed diversion of **7.35 ha.** Forest land, in favour of National Highways Authority of India for construction of Six lane configuration.

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forest
Hassan

Annexure-XXVI

CERTIFICATE OF USER AGENCY AND DCF REGARDING COURT CASE

I, hereby, certify that no court case is pending against proposed diversion of **44.83 ha.** Forest land, in favour of National Highways Authority of India for construction of Six lane configuration.

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forest
Mangaluru

ANNEXURE – XXVII

Annexure-XXVII

CERTIFICATE OF DCF ABOUT OVERLAPPING

It is certified that **7.95 ha**. of forest land is demanded by National Highways Authority of India has not been demanded by any other user agency.

Signature

Deputy Conservator of Forest
Chickamangaluru

Annexure-XXVII

CERTIFICATE OF DCF ABOUT OVERLAPPING

It is certified that **7.35 ha**. of forest land is demanded by National Highways Authority of India has not been demanded by any other user agency.

Signature

Deputy Conservator of Forest
Hassan

Annexure-XXVII

CERTIFICATE OF DCF ABOUT OVERLAPPING

It is certified that **44.83 ha**. of forest land is demanded by National Highways Authority of India has not been demanded by any other user agency.

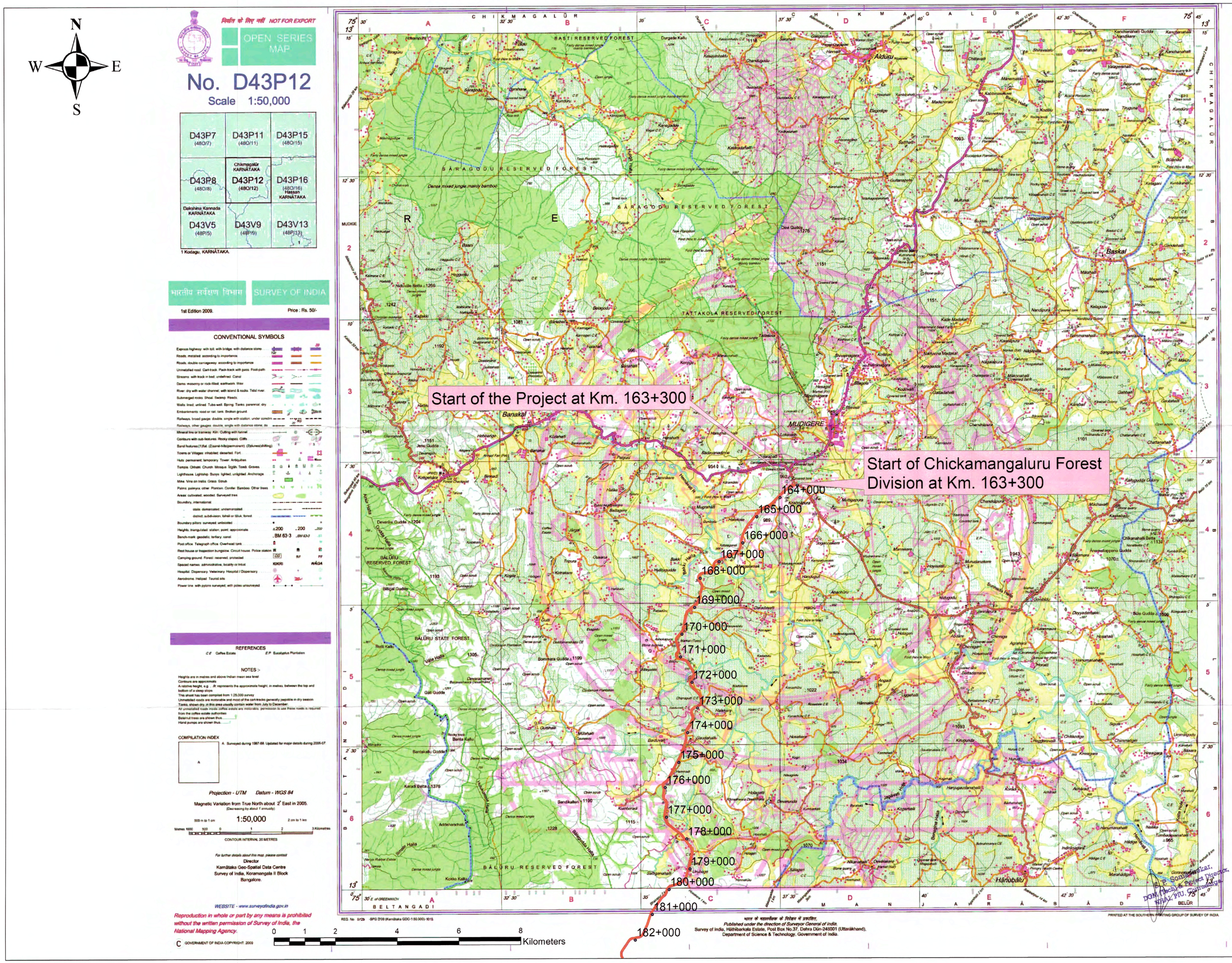
Signature

Deputy Conservator of Forest
Mangaluru

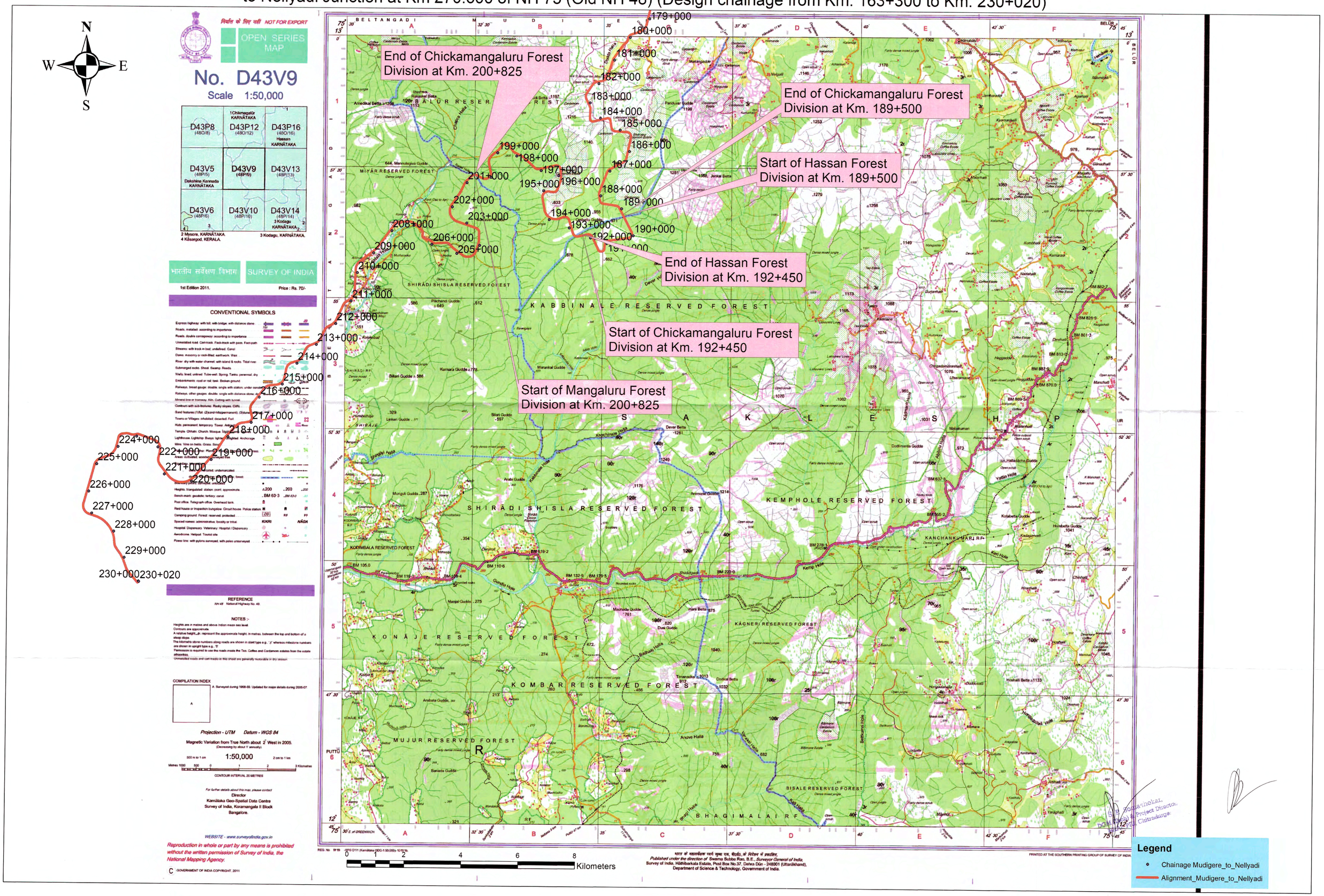
ANNEXURE – XXVIII

Annexure-XXVIII

ALIGNMENT ON TOPO SHEET- FOREST AREA MARKED


N
W
E
S
NOT FOR EXPORT
OPEN SERIES MAP
No. D43P12
Scale 1:50,000
D43P7 (48O/7)
D43P11 (48O/11)
D43P15 (48O/15)
D43P8 (48O/8)
Chikmagalur KARNATAKA
D43P12 (48O/12)
D43P16 (48O/16) Hassan KARNATAKA
Dakshina Kannada KARNATAKA
D43V5 (48P/5)
D43V9 (48P/9)
D43V13 (48P/13)
1 Kodagu, KARNATAKA.
भारतीय सर्वेक्षण विभाग
SURVEY OF INDIA
1st Edition 2009.
Price : Rs. 50/-
CONVENTIONAL SYMBOLS
REFERENCES
NOTES :-
COMPILATION INDEX
Projection - UTM Datum - WGS 84
Magnetic Variation from True North about 2° East in 2005.
1:50,000
CONTOUR INTERVAL 20 METRES
Director
Karnataka Geo-Spatial Data Centre
Survey of India, Koramangala II Block
Bangalore.
WEBSITE - www.surveyofindia.gov.in
Reproduction in whole or part by any means is prohibited without the written permission of Survey of India, the National Mapping Agency.
C GOVERNMENT OF INDIA COPYRIGHT 2009
CHIKMAGALUR
BASTI RESERVED FOREST
SARAGODU RESERVED FOREST
TATTAKOLA RESERVED FOREST
BALURU RESERVED FOREST
BALURU STATE FOREST
Aldüru
Baskal
Banakal
MUDIGERE
Hanubalu
BELTANGADI
Start of the Project at Km. 163+300
Start of Chickamangaluru Forest Division at Km. 163+300
164+000
165+000
166+000
167+000
168+000
169+000
170+000
171+000
172+000
173+000
174+000
175+000
176+000
177+000
178+000
179+000
180+000
181+000
182+000
0 1 2 4 6 8 Kilometers
Legend
Chainage Mudigere_to_Nellyadi
Alignment_Mudigere_to_Nellyadi

Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India
(Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH173 – From Mudigere Hand Post at Junction of NH 73
to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)

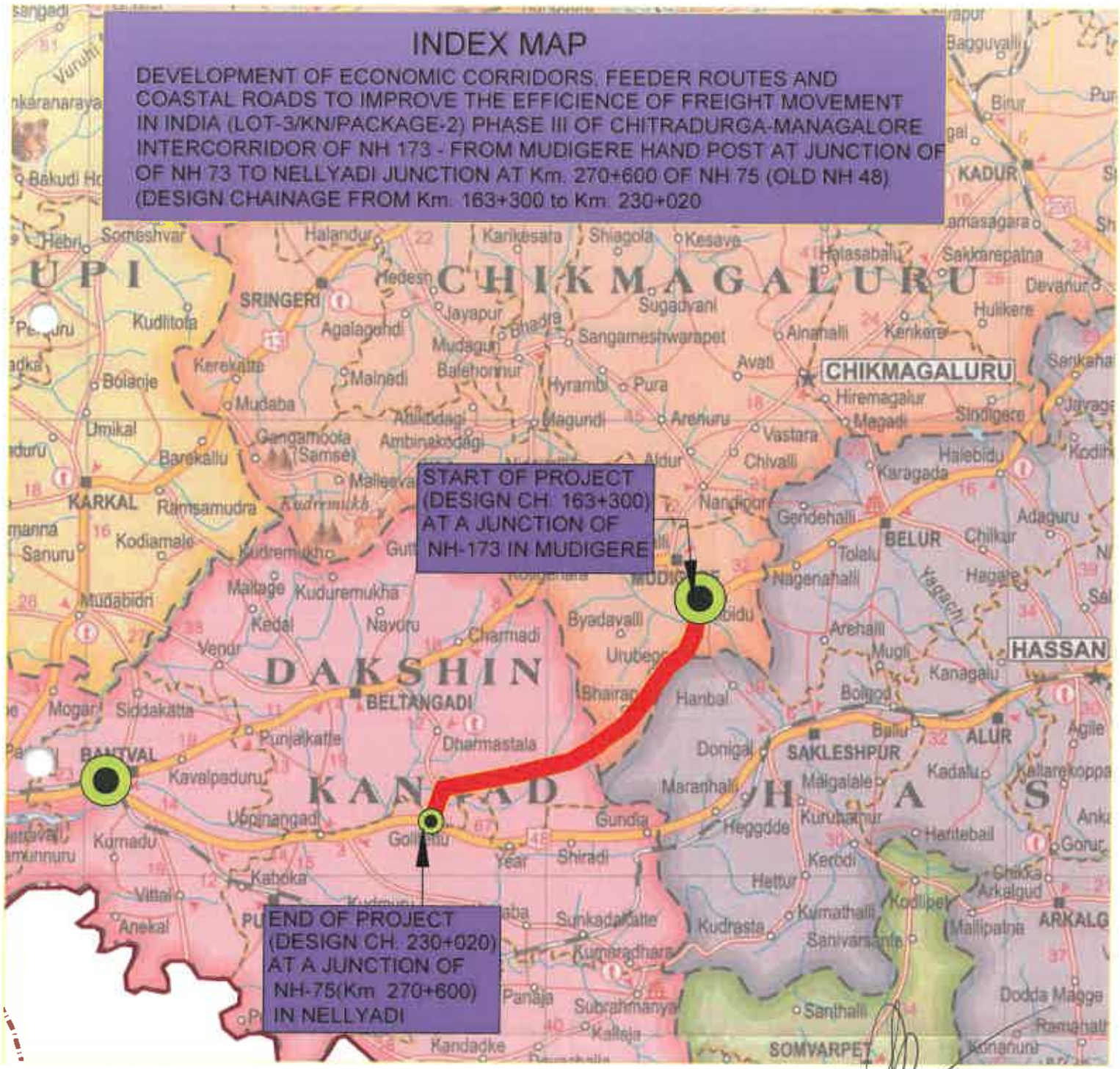


Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India
(Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH173 – From Mudigere Hand Post at Junction of NH 173
to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)

ANNEXURE – XXIX

Annexure-XXIX

INDEX MAP



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

ANNEXURE – XXX

Annexure-XXX

INDEX MAP SHOWING BOTH FOREST AREA FOR DIVERSION AND AREA SELECTED FOR COMPENSATORY AFFORESTATION

(INFORMATION TO BE PROVIDED BY FOREST DEPARTMENT)

ANNEXURE – XXXI

Annexure-XXXI

CROSS SECTION MAP SHOWING PRESENT WIDTH/ EARLIER DIVERTED WIDTH (IF ANY) AND PROPOSED EXPANSION IN CASE OF LINEAR DIVERSION LIKE ROAD ETC.

Attached

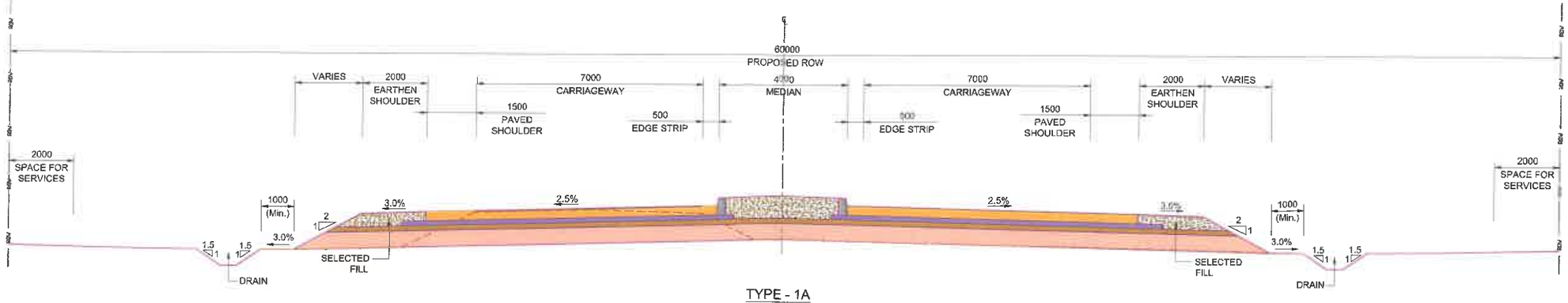
Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE : 23/03/2018

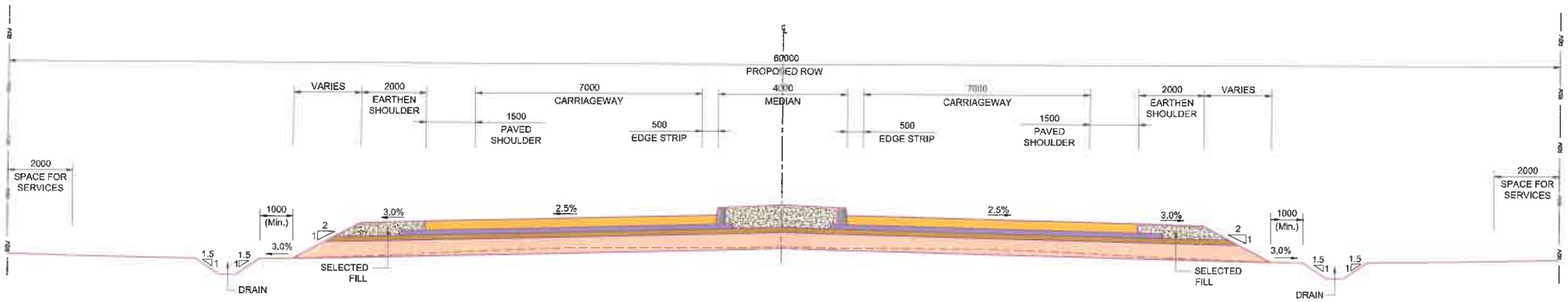
PLACE: Chitradurga



TYPE - 1A

TYPICAL 4 LANING SECTION FOR WIDENING OF EXISTING ROAD WITH 4.0m MEDIAN

(SCALE 1 : 100)



TYPE - 1B

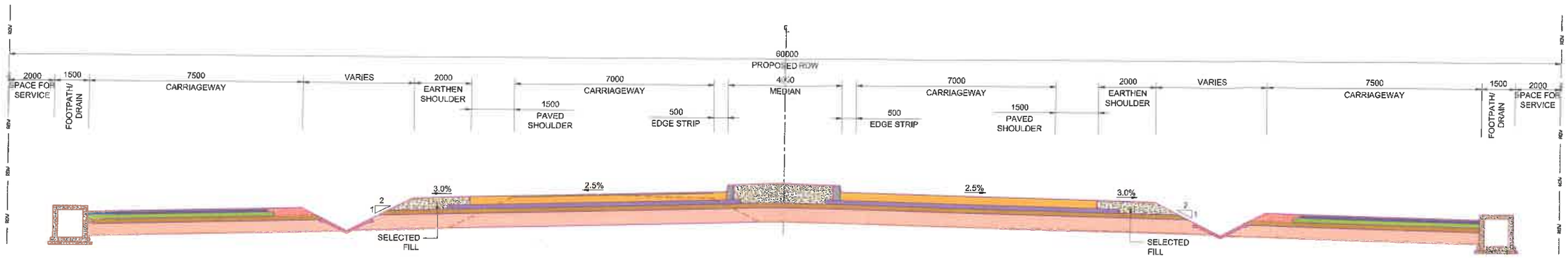
TYPICAL 4 LANING SECTION FOR NEW CONSTRUCTION FOR REALIGNMENT AND BYPASS WITH 4.0m MEDIAN

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DESIGN CONSULTANT:	SCALE:	CLIENT:	DRAWING TITLE:	DRG. NO.	REV.
LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044 INDIA \LEA.jpg	AS SHOWN	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of india	TYPICAL CROSS SECTIONS	73587\LASA\HWY\DPR\TCS-1A & 1B	0

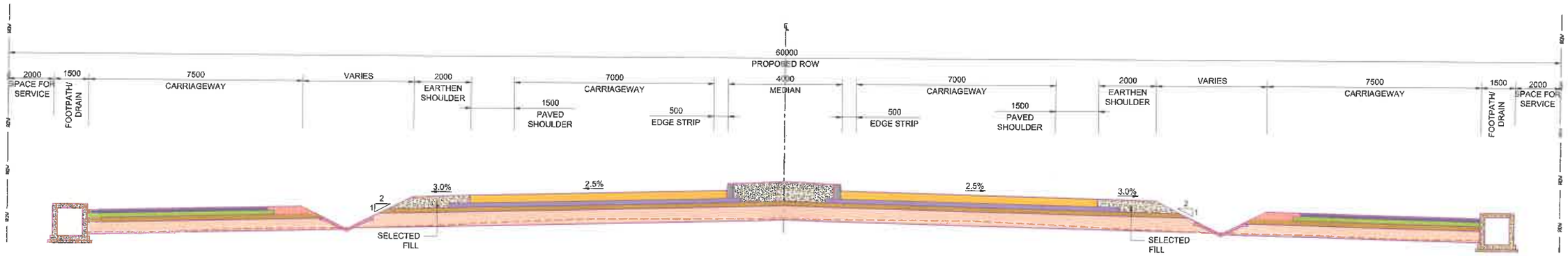
PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA. (LOT-3 / ANDHRA PRADESH, KARNATAKA, GOA AND KERALA/ PACKAGE-2)

DATE: October 2017	DRAWN : CHANDAN KUMARI	
DESIGNED	CHECKED	APPROVED
ANIRBAN	DEBMALYA	G.P. KHANAL



TYPE - 2A

TYPICAL 4 LANING SECTION WITH SERVICE ROAD FOR WIDENING OF EXISTING ROAD WITH 4.0m MEDIAN



TYPE - 2B

TYPICAL 4 LANING SECTION WITH SERVICE ROAD FOR NEW CONSTRUCTION FOR REALIGNMENT AND BYPASS WITH 4.0m MEDIAN

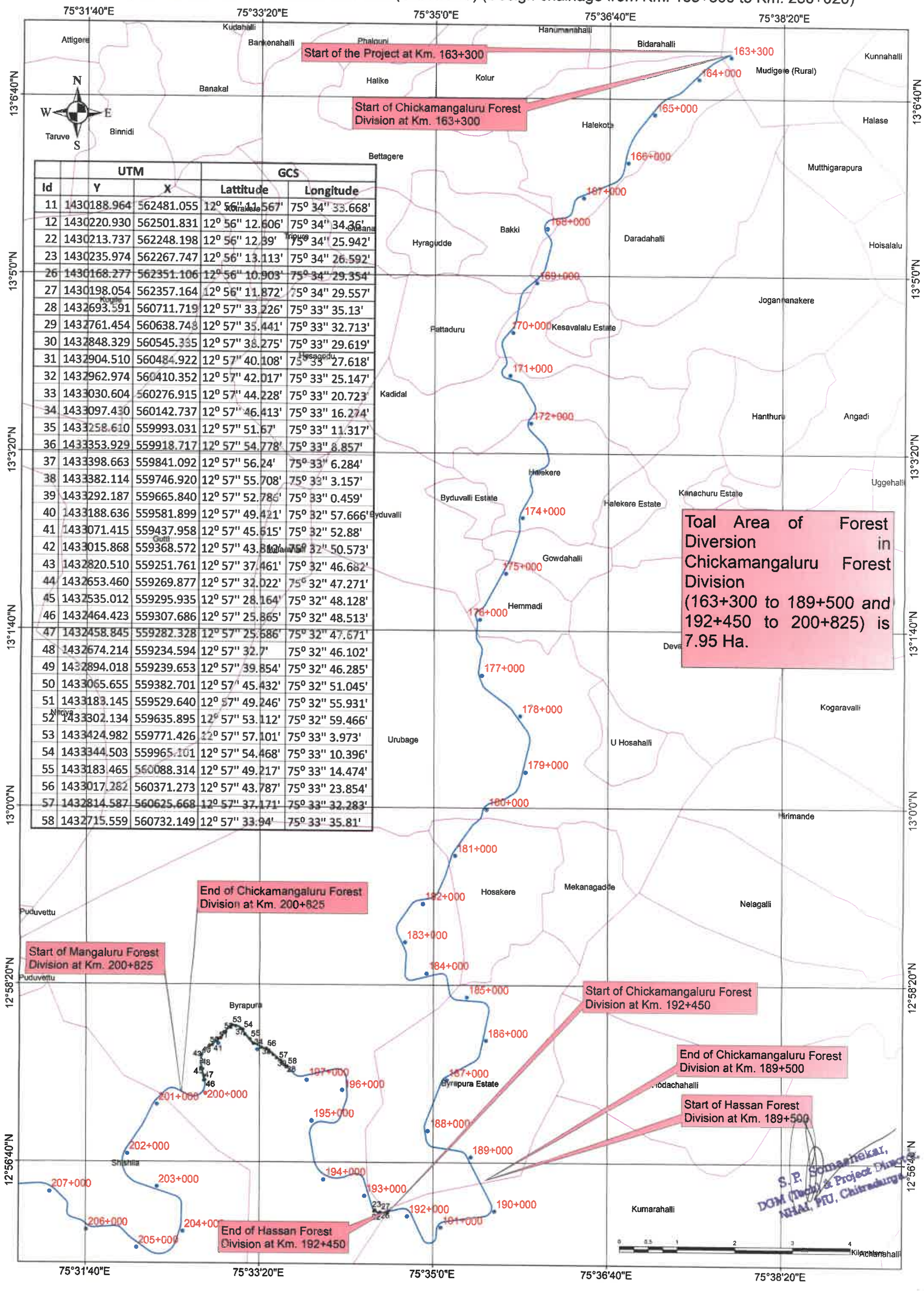
S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chikkaballapur.

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044 INDIA \LEA.jpg	SCALE: AS SHOWN	CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India	DRAWING TITLE: TYPICAL CROSS SECTIONS	DRG. NO. 73587\LASA\HWY\DPR\TCS-2A & 2B	REV. 0
		PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA. (LOT-3 / ANDHRA PRADESH, KARNATAKA, GOA AND KERALA/ PACKAGE-2)		DATE: October 2017	DRAWN : CHANDAN KUMARI
				DESIGNED: ANIRBAN	CHECKED: DEBMALYA	APPROVED: G.P. KHANAL

ANNEXURE – XXXII

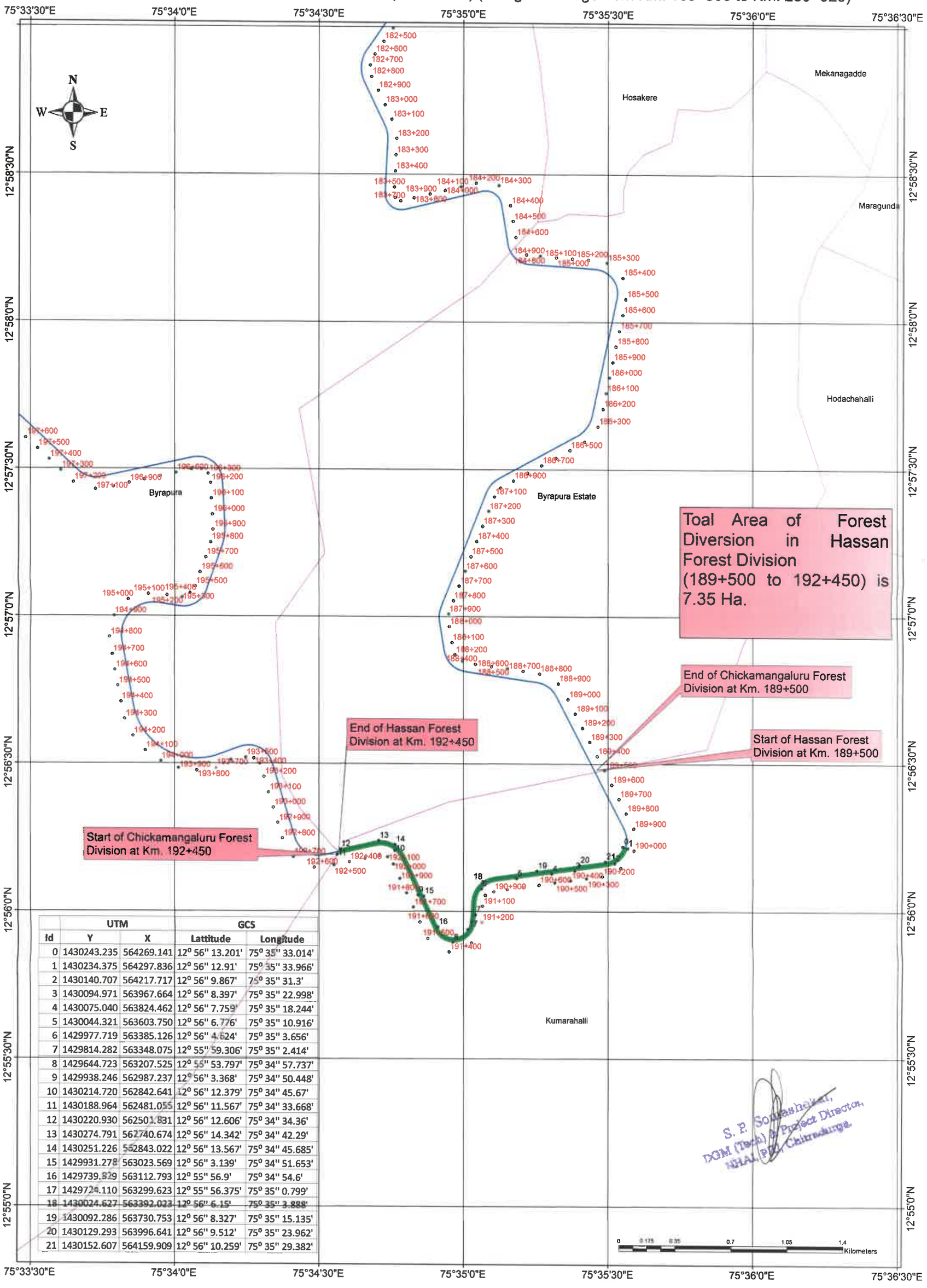
Annexure-XXXII

DGPS MAP OF FOREST AREA DEMANDED FOR DIVERSION



	UTM		GCS	
Id	Y	X	Lattitude	Longitude
11	1430188.964	562481.055	12° 56" 11.567'	75° 34" 33.668'
12	1430220.930	562501.831	12° 56" 12.606'	75° 34" 34.36'
22	1430213.737	562248.198	12° 56" 12.39'	75° 34" 25.942'
23	1430235.974	562267.747	12° 56" 13.113'	75° 34" 26.592'
26	1430168.277	562351.106	12° 56" 10.903'	75° 34" 29.354'
27	1430198.054	562357.164	12° 56" 11.872'	75° 34" 29.557'
28	1432693.591	560711.719	12° 57" 33.226'	75° 33" 35.13'
29	1432761.454	560638.748	12° 57" 35.441'	75° 33" 32.713'
30	1432848.329	560545.335	12° 57" 38.275'	75° 33" 29.619'
31	1432904.510	560484.922	12° 57" 40.108'	75° 33" 27.618'
32	1432962.974	560410.352	12° 57" 42.017'	75° 33" 25.147'
33	1433030.604	560276.915	12° 57" 44.228'	75° 33" 20.723'
34	1433097.430	560142.737	12° 57" 46.413'	75° 33" 16.274'
35	1433258.610	559993.031	12° 57" 51.67'	75° 33" 11.317'
36	1433353.929	559918.717	12° 57" 54.778'	75° 33" 8.857'
37	1433398.663	559841.092	12° 57" 56.24'	75° 33" 6.284'
38	1433382.114	559746.920	12° 57" 55.708'	75° 33" 3.157'
39	1433292.187	559665.840	12° 57" 52.786'	75° 33" 0.459'
40	1433188.636	559581.899	12° 57" 49.421'	75° 32" 57.666'
41	1433071.415	559437.958	12° 57" 45.615'	75° 32" 52.88'
42	1433015.868	559368.572	12° 57" 43.812'	75° 32" 50.573'
43	1432820.510	559251.761	12° 57" 37.461'	75° 32" 46.682'
44	1432653.460	559269.877	12° 57" 32.022'	75° 32" 47.271'
45	1432535.012	559295.935	12° 57" 28.164'	75° 32" 48.128'
46	1432464.423	559307.686	12° 57" 25.865'	75° 32" 48.513'
47	1432458.845	559282.328	12° 57" 25.686'	75° 32" 47.671'
48	1432674.214	559234.594	12° 57" 32.7'	75° 32" 46.102'
49	1432894.018	559239.653	12° 57" 39.854'	75° 32" 46.285'
50	1433065.655	559382.701	12° 57" 45.432'	75° 32" 51.045'
51	1433183.145	559529.640	12° 57" 49.246'	75° 32" 55.931'
52	1433302.134	559635.895	12° 57" 53.112'	75° 32" 59.466'
53	1433424.982	559771.426	12° 57" 57.101'	75° 33" 3.973'
54	1433344.503	559965.101	12° 57" 54.468'	75° 33" 10.396'
55	1433183.465	560088.314	12° 57" 49.217'	75° 33" 14.474'
56	1433017.282	560371.273	12° 57" 43.787'	75° 33" 23.854'
57	1432814.587	560625.668	12° 57" 37.171'	75° 33" 32.283'
58	1432715.559	560732.149	12° 57" 33.94'	75° 33" 35.81'

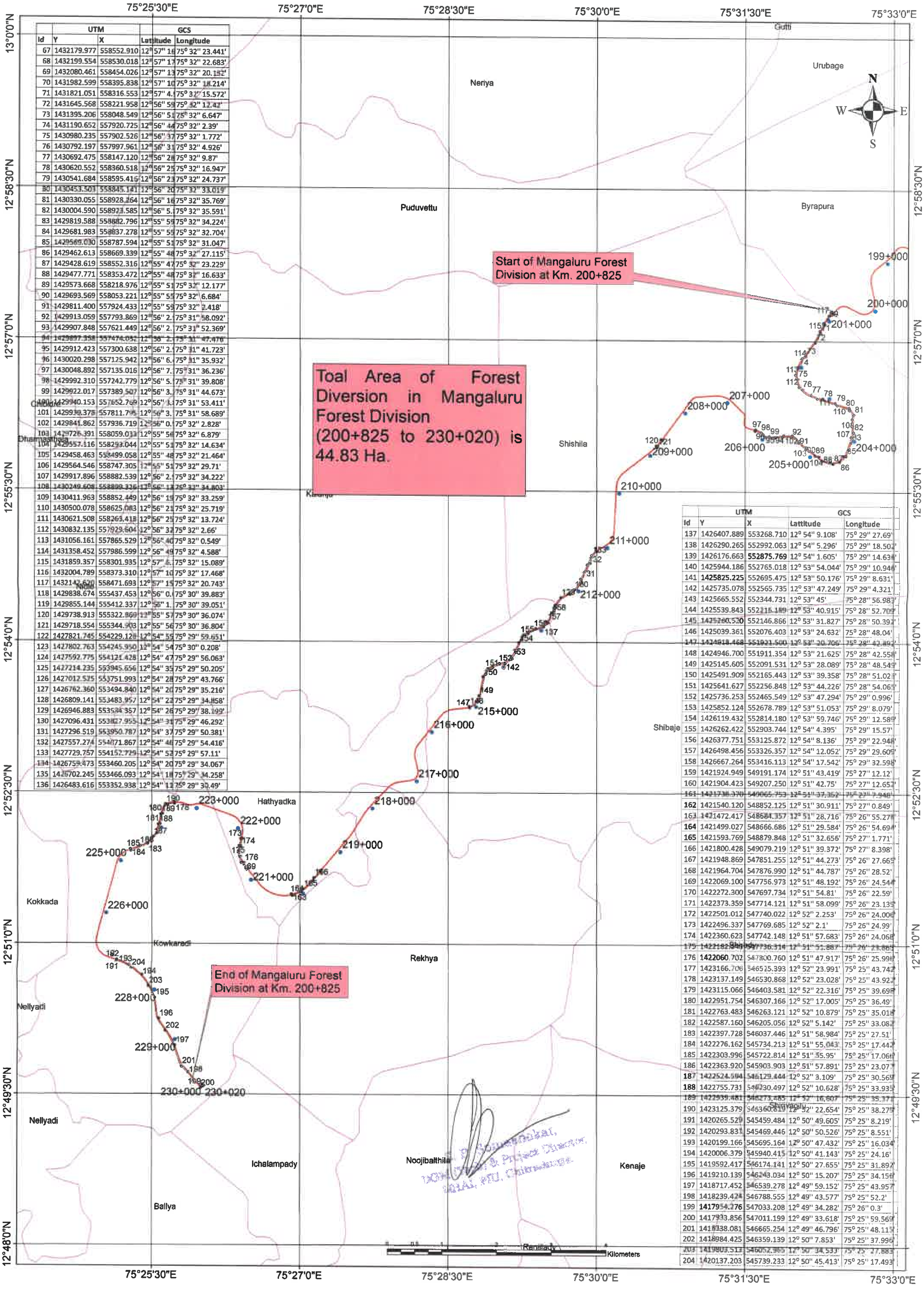
Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH173 – From Mudigere Hand Post at Junction of NH 173 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)



Id	UTM Y	UTM X	GCS Lattitude	GCS Longitude
0	1430243.235	564269.141	12° 56" 13.201'	75° 35" 33.014'
1	1430234.375	564297.836	12° 56" 12.91'	75° 35" 33.966'
2	1430140.707	564217.717	12° 56" 9.867'	75° 35" 31.3'
3	1430094.971	563967.664	12° 56" 8.397'	75° 35" 22.998'
4	1430075.040	563824.462	12° 56" 7.759'	75° 35" 18.244'
5	1430044.321	563603.750	12° 56" 6.776'	75° 35" 10.916'
6	1429977.719	563385.126	12° 56" 4.624'	75° 35" 3.656'
7	1429814.282	563348.075	12° 55" 59.306'	75° 35" 2.414'
8	1429644.723	563207.525	12° 55" 53.797'	75° 34" 57.737'
9	1429938.246	562987.237	12° 56" 3.368'	75° 34" 50.448'
10	1430214.720	562842.641	12° 56" 12.379'	75° 34" 45.67'
11	1430188.964	562481.055	12° 56" 11.567'	75° 34" 33.668'
12	1430220.930	562501.831	12° 56" 12.606'	75° 34" 34.36'
13	1430274.791	562740.674	12° 56" 14.342'	75° 34" 42.29'
14	1430251.226	562843.022	12° 56" 13.567'	75° 34" 45.685'
15	1429931.278	563023.569	12° 56" 3.139'	75° 34" 51.653'
16	1429739.829	563112.793	12° 55" 56.9'	75° 34" 54.6'
17	1429724.110	563299.623	12° 55" 56.375'	75° 35" 0.799'
18	1430024.627	563392.023	12° 56" 6.15'	75° 35" 3.888'
19	1430092.286	563730.753	12° 56" 8.327'	75° 35" 15.135'
20	1430129.293	563996.641	12° 56" 9.512'	75° 35" 23.962'
21	1430152.607	564159.909	12° 56" 10.259'	75° 35" 29.382'

S. P. Sowmashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

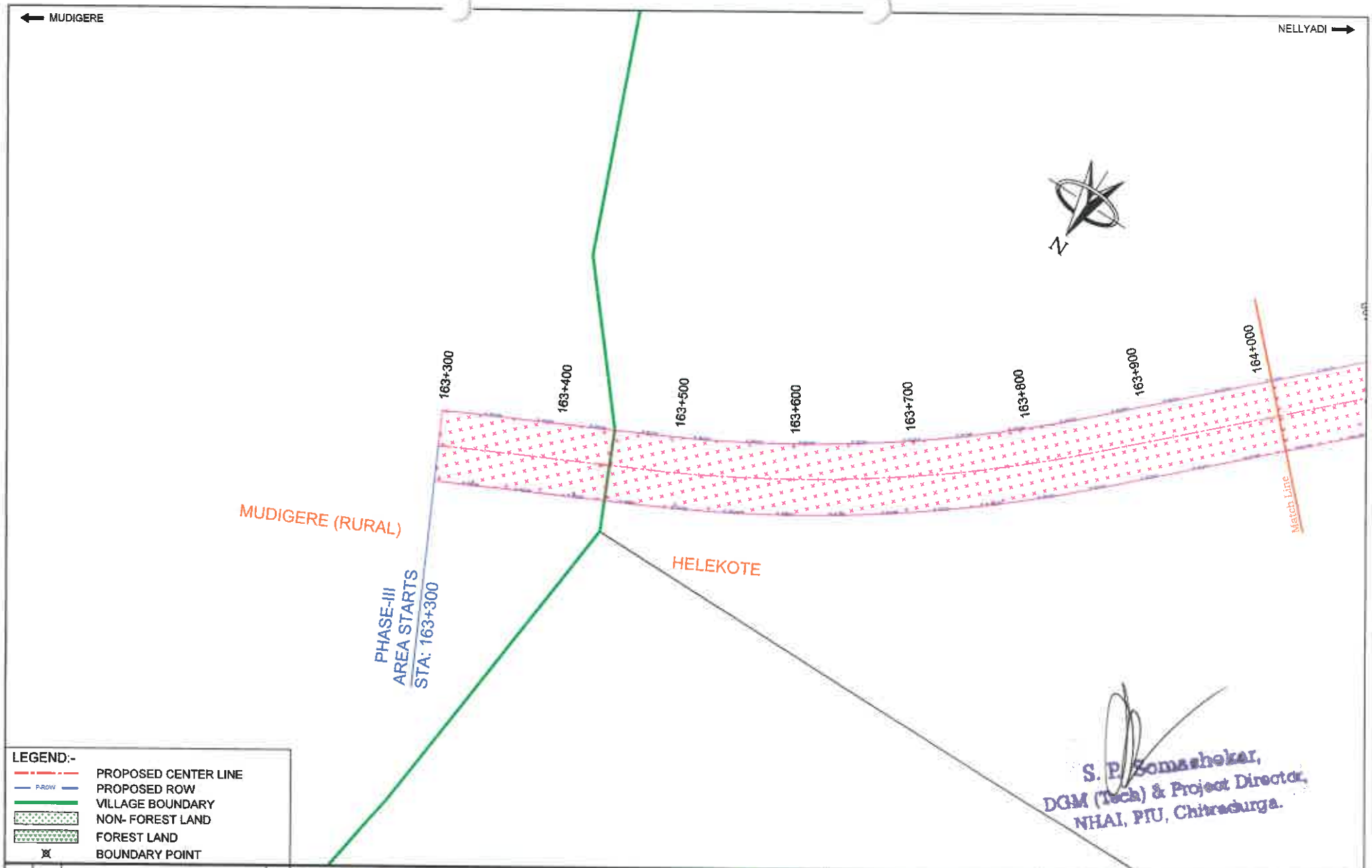
Development of Economic Corridors, Feeder Routes and Coastal Roads to improve the efficiency of freight movement in India (Lot-3/KN/Package-2) Phase III of Chitradurga – Mangalore Intercorridor of NH173 – From Mudigere Hand Post at Junction of NH 73 to Nellyadi Junction at Km 270.600 of NH 75 (Old NH 48) (Design chainage from Km. 163+300 to Km. 230+020)



	UTM		GCS	
Id	Y	X	Latitude	Longitude
67	1432179.977	558552.910	12° 57'' 16	75° 32'' 23.441'
68	1432199.554	558530.018	12° 57'' 17	75° 32'' 22.683'
69	1432080.461	558454.026	12° 57'' 13	75° 32'' 20.182'
70	1431982.599	558395.838	12° 57'' 10	75° 32'' 18.214'
71	1431821.051	558316.553	12° 57'' 4.	75° 32'' 15.572'
72	1431645.568	558221.958	12° 56'' 59	75° 32'' 12.42'
73	1431395.206	558048.549	12° 56'' 51	75° 32'' 6.647'
74	1431190.652	557920.725	12° 56'' 44	75° 32'' 2.39'
75	1430980.235	557902.526	12° 56'' 37	75° 32'' 1.772'
76	1430792.197	557997.961	12° 56'' 31	75° 32'' 4.926'
77	1430692.475	558147.120	12° 56'' 28	75° 32'' 9.87'
78	1430620.552	558360.518	12° 56'' 25	75° 32'' 16.947'
79	1430541.684	558595.416	12° 56'' 23	75° 32'' 24.737'
80	1430453.501	558845.141	12° 56'' 20	75° 32'' 33.019'
81	1430330.055	558928.264	12° 56'' 16	75° 32'' 35.769'
82	1430004.590	558923.585	12° 56'' 5.	75° 32'' 35.591'
83	1429819.588	558882.796	12° 55'' 59	75° 32'' 34.224'
84	1429681.983	558837.278	12° 55'' 55	75° 32'' 32.704'
85	1429569.030	558787.594	12° 55'' 51	75° 32'' 31.047'
86	1429462.613	558669.339	12° 55'' 48	75° 32'' 27.115'
87	1429428.619	558552.316	12° 55'' 47	75° 32'' 23.229'
88	1429477.771	558353.472	12° 55'' 48	75° 32'' 16.633'
89	1429573.668	558218.976	12° 55'' 51	75° 32'' 12.177'
90	1429693.569	558053.221	12° 55'' 55	75° 32'' 6.684'
91	1429811.400	557924.433	12° 55'' 59	75° 32'' 2.418'
92	1429913.059	557793.869	12° 56'' 2.	75° 31'' 58.092'
93	1429907.848	557621.449	12° 56'' 2.	75° 31'' 52.369'
94	1429897.358	557474.052	12° 56'' 2.	75° 31'' 47.476'
95	1429912.423	557300.638	12° 56'' 2.	75° 31'' 41.723'
96	1430020.298	557125.942	12° 56'' 6.	75° 31'' 35.932'
97	1430048.892	557135.016	12° 56'' 7.	75° 31'' 36.236'
98	1429992.310	557242.779	12° 56'' 5.	75° 31'' 39.808'
99	1429922.017	557389.507	12° 56'' 3.	75° 31'' 44.673'
100	1429940.153	557652.769	12° 56'' 1.	75° 31'' 53.411'
101	1429939.378	557811.795	12° 56'' 3.	75° 31'' 58.689'
102	1429841.862	557936.719	12° 56'' 0.	75° 32'' 2.828'
103	1429726.391	558059.033	12° 55'' 56	75° 32'' 6.879'
104	1429557.116	558293.044	12° 55'' 51	75° 32'' 14.634'
105	1429458.463	558499.058	12° 55'' 48	75° 32'' 21.464'
106	1429564.546	558747.305	12° 55'' 51	75° 32'' 29.71'
107	1429917.896	558882.539	12° 56'' 2.	75° 32'' 34.222'
108	1430249.608	558899.336	12° 56'' 1[illegible]	75° 32'' 34.803'
109	1430411.963	558852.449	12° 56'' 19	75° 32'' 33.259'
110	1430500.078	558625.083	12° 56'' 21	75° 32'' 25.719'
111	1430621.508	558263.418	12° 56'' 25	75° 32'' 13.724'
112	1430832.135	557929.604	12° 56'' 32	75° 32'' 2.66'
113	1431056.161	557865.529	12° 56'' 40	75° 32'' 0.549'
114	1431358.452	557986.599	12° 56'' 49	75° 32'' 4.588'
115	1431859.357	558301.935	12° 57'' 5.	75° 32'' 15.089'
116	1432004.789	558373.310	12° 57'' 10	75° 32'' 17.468'
117	14321[illegible]	558471.693	12° 57'' 15	75° 32'' 20.743'
118	1429838.674	555437.453	12° 56'' 0.	75° 30'' 39.883'
119	1429855.144	555412.337	12° 56'' 1.	75° 30'' 39.051'
120	1429738.913	555322.869	12° 55'' 57	75° 30'' 36.074'
121	1429718.554	555344.903	12° 55'' 56	75° 30'' 36.804'
122	1427821.745	554229.128	12° 54'' 59	75° 29'' 59.651'
123	1427802.763	554245.950	12° 54'' 54	75° 30'' 0.208'
124	1427592.775	554121.428	12° 54'' 47	75° 29'' 56.063'
125	1427214.235	553945.656	12° 54'' 35	75° 29'' 50.205'
126	1427012.525	553751.993	12° 54'' 28	75° 29'' 43.766'
127	1426762.360	553494.840	12° 54'' 20	75° 29'' 35.216'
128	1426809.141	553483.957	12° 54'' 22	75° 29'' 34.858'
129	1426946.883	553584.357	12° 54'' 26	75° 29'' 38.199'
130	1427096.431	553827.955	12° 54'' 31	75° 29'' 46.292'
131	1427296.519	553950.787	12° 54'' 37	75° 29'' 50.381'
132	1427557.274	554071.867	12° 54'' 46	75° 29'' 54.416'
133	1427729.757	554152.729	12° 54'' 53	75° 29'' 57.11'
134	1426759.473	553460.205	12° 54'' 20	75° 29'' 34.067'
135	1426702.245	553466.093	12° 54'' 18	75° 29'' 34.258'
136	1426483.616	553352.938	12° 54'' 11	75° 29'' 30.49'

	UTM		GCS	
Id	Y	X	Latitude	Longitude
137	1426407.889	553268.710	12° 54'' 9.108'	75° 29'' 27.69'
138	1426290.265	552992.063	12° 54'' 5.296'	75° 29'' 18.502'
139	1426176.663	552875.769	12° 54'' 1.605'	75° 29'' 14.634'
140	1425944.186	552765.018	12° 53'' 54.044'	75° 29'' 10.946'
141	1425825.225	552695.475	12° 53'' 50.176'	75° 29'' 8.631'
142	1425735.078	552565.735	12° 53'' 47.249'	75° 29'' 4.321'
143	1425665.552	552344.731	12° 53'' 45'	75° 28'' 56.983'
144	1425539.843	552115.189	12° 53'' 40.915'	75° 28'' 52.705'
145	1425260.520	552146.866	12° 53'' 31.827'	75° 28'' 50.392'
146	1425039.361	552076.403	12° 53'' 24.632'	75° 28'' 48.04'
147	1424918.468	551931.500	12° 53'' 20.706'	75° 28'' 43.492'
148	1424946.700	551911.354	12° 53'' 21.625'	75° 28'' 42.558'
149	1425145.605	552091.531	12° 53'' 28.089'	75° 28'' 48.549'
150	1425491.909	552165.443	12° 53'' 39.358'	75° 28'' 51.02'
151	1425641.627	552256.848	12° 53'' 44.226'	75° 28'' 54.065'
152	1425736.253	552465.549	12° 53'' 47.294'	75° 29'' 0.996'
153	1425852.124	552678.789	12° 53'' 51.053'	75° 29'' 8.079'
154	1426119.432	552814.180	12° 53'' 59.746'	75° 29'' 12.589'
155	1426262.422	552903.744	12° 54'' 4.395'	75° 29'' 15.57'
156	1426377.751	553125.872	12° 54'' 8.136'	75° 29'' 22.948'
157	1426498.456	553326.357	12° 54'' 12.052'	75° 29'' 29.605'
158	1426667.264	553416.113	12° 54'' 17.542'	75° 29'' 32.598'
159	1421924.949	549191.174	12° 51'' 43.419'	75° 27'' 12.12'
160	1421904.423	549207.250	12° 51'' 42.75'	75° 27'' 12.652'
161	1421738.370	549065.753	12° 51'' 37.352'	75° 27'' 7.948'
162	1421540.120	548852.125	12° 51'' 30.911'	75° 27'' 0.849'
163	1421472.417	548584.357	12° 51'' 28.716'	75° 26'' 55.278'
164	1421499.027	548666.686	12° 51'' 29.584'	75° 26'' 54.694'
165	1421593.769	548879.848	12° 51'' 32.656'	75° 27'' 1.771'
166	1421800.428	549079.219	12° 51'' 39.372'	75° 27'' 8.398'
167	1421948.869	547851.255	12° 51'' 44.273'	75° 26'' 27.665'
168	1421964.704	547876.990	12° 51'' 44.787'	75° 26'' 28.52'
169	1422069.100	547756.973	12° 51'' 48.192'	75° 26'' 24.544'
170	1422272.300	547697.734	12° 51'' 54.81'	75° 26'' 22.59'
171	1422373.359	547714.121	12° 51'' 58.099'	75° 26'' 23.135'
172	1422501.012	547740.022	12° 52'' 2.253'	75° 26'' 24.006'
173	1422496.337	547769.685	12° 52'' 2.1'	75° 26'' 24.99'
174	1422360.623	547742.148	12° 51'' 57.683'	75° 26'' 24.068'
175	142218[illegible]	547736.314	12° 51'' 51.887'	75° 26'' 23.865'
176	1422060.702	547800.760	12° 51'' 47.917'	75° 26'' 25.998'
177	1423166.706	546525.393	12° 52'' 23.991'	75° 25'' 43.742'
178	1423137.149	546530.868	12° 52'' 23.028'	75° 25'' 43.922'
179	1423115.066	546403.581	12° 52'' 22.316'	75° 25'' 39.698'
180	1422951.754	546307.166	12° 52'' 17.005'	75° 25'' 36.49'
181	1422763.483	546263.121	12° 52'' 10.879'	75° 25'' 35.018'
182	1422587.160	546205.056	12° 52'' 5.142'	75° 25'' 33.082'
183	1422397.728	546037.446	12° 51'' 58.984'	75° 25'' 27.51'
184	1422276.162	545734.213	12° 51'' 55.043'	75° 25'' 17.442'
185	1422303.996	545722.814	12° 51'' 55.95'	75° 25'' 17.068'
186	1422363.920	545903.903	12° 51'' 57.891'	75° 25'' 23.077'
187	1422524.594	546129.444	12° 52'' 3.109'	75° 25'' 30.569'
188	1422755.731	546230.497	12° 52'' 10.628'	75° 25'' 33.935'
189	1422939.481	546273.485	12° 52'' 16.607'	75° 25'' 35.37'
190	1423125.379	546360.819	12° 52'' 22.654'	75° 25'' 38.275'
191	1420265.529	545459.484	12° 50'' 49.605'	75° 25'' 8.219'
192	1420293.831	545469.446	12° 50'' 50.526'	75° 25'' 8.551'
193	1420199.166	545695.164	12° 50'' 47.432'	75° 25'' 16.034'
194	1420006.379	545940.415	12° 50'' 41.143'	75° 25'' 24.16'
195	1419592.417	546174.141	12° 50'' 27.655'	75° 25'' 31.892'
196	1419210.139	546243.034	12° 50'' 15.207'	75° 25'' 34.158'
197	1418717.452	546539.278	12° 49'' 59.152'	75° 25'' 43.957'
198	1418239.424	546788.555	12° 49'' 43.577'	75° 25'' 52.2'
199	1417954.276	547033.208	12° 49'' 34.282'	75° 26'' 0.3'
200	1417933.856	547011.199	12° 49'' 33.618'	75° 25'' 59.569'
201	1418338.081	546665.254	12° 49'' 46.796'	75° 25'' 48.113'
202	1418984.425	546359.139	12° 50'' 7.853'	75° 25'' 37.996'
203	1419803.513	546052.965	12° 50'' 34.533'	75° 25'' 27.883'
204	1420137.203	545739.233	12° 50'' 45.413'	75° 25'' 17.493'

Project Director, PIU, Chitradurga



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

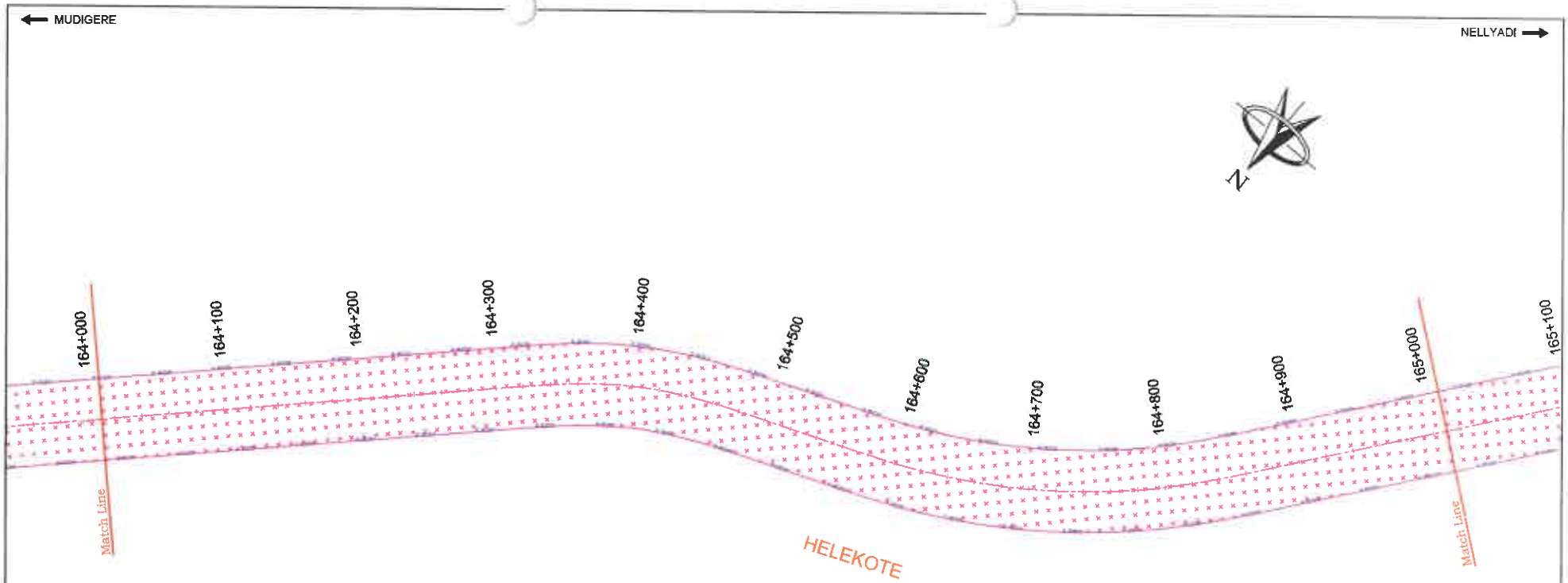
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
S-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Saur
CHECKED	Sarfa Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 163+300 to Km. 164+000)

DRAWING No: 73587\LASA\HWY\M-N\DGPS-01 REV. R0

SCALE: 1:2000 SHEET A2



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 164+000 to Km. 165+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-02

REV.: R0

SCALE: 1:2000

SHEET: A2

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 165+000 to Km. 166+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-03

REV.: R0

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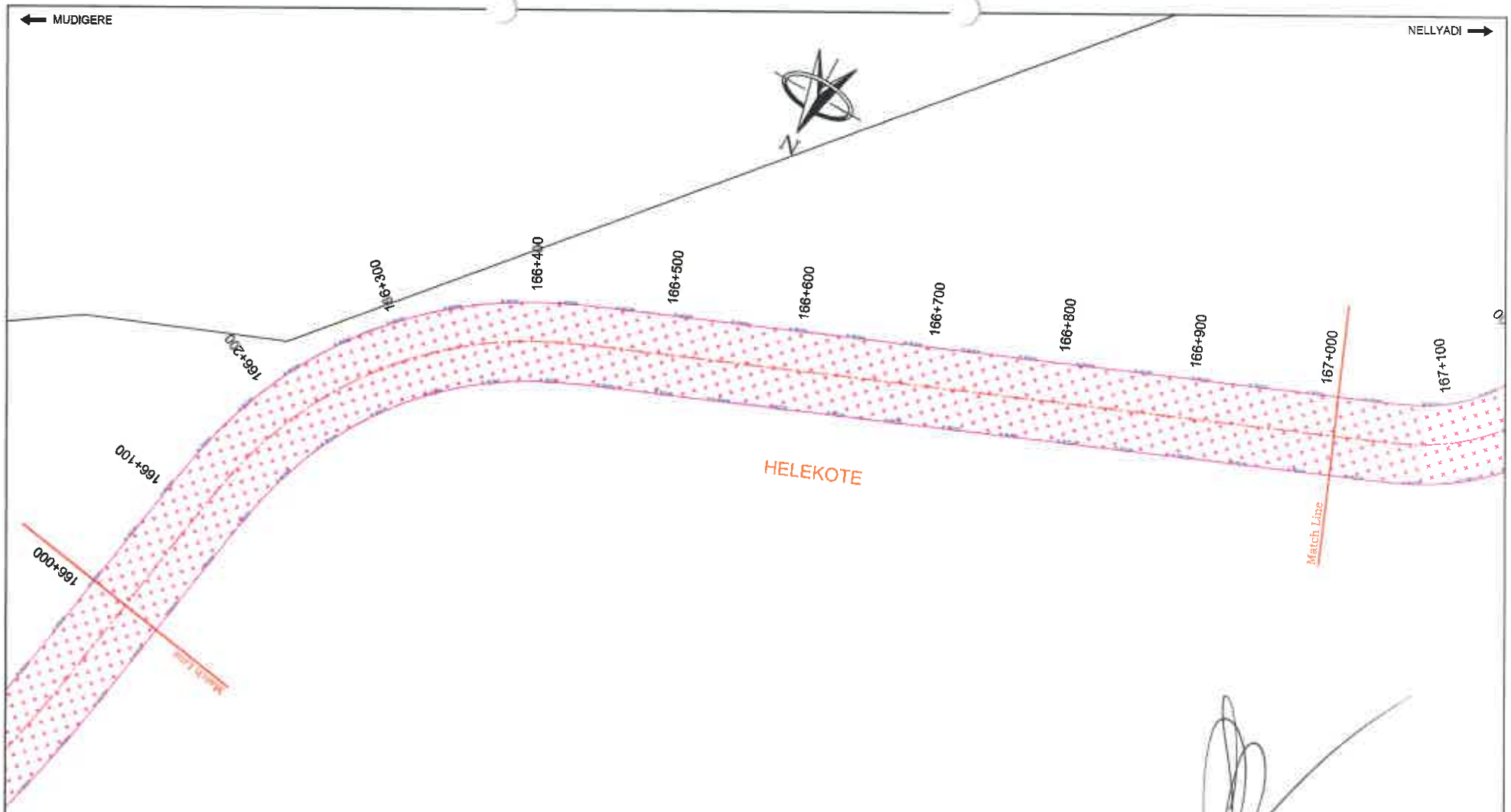
SHEET: A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT :

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Saur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

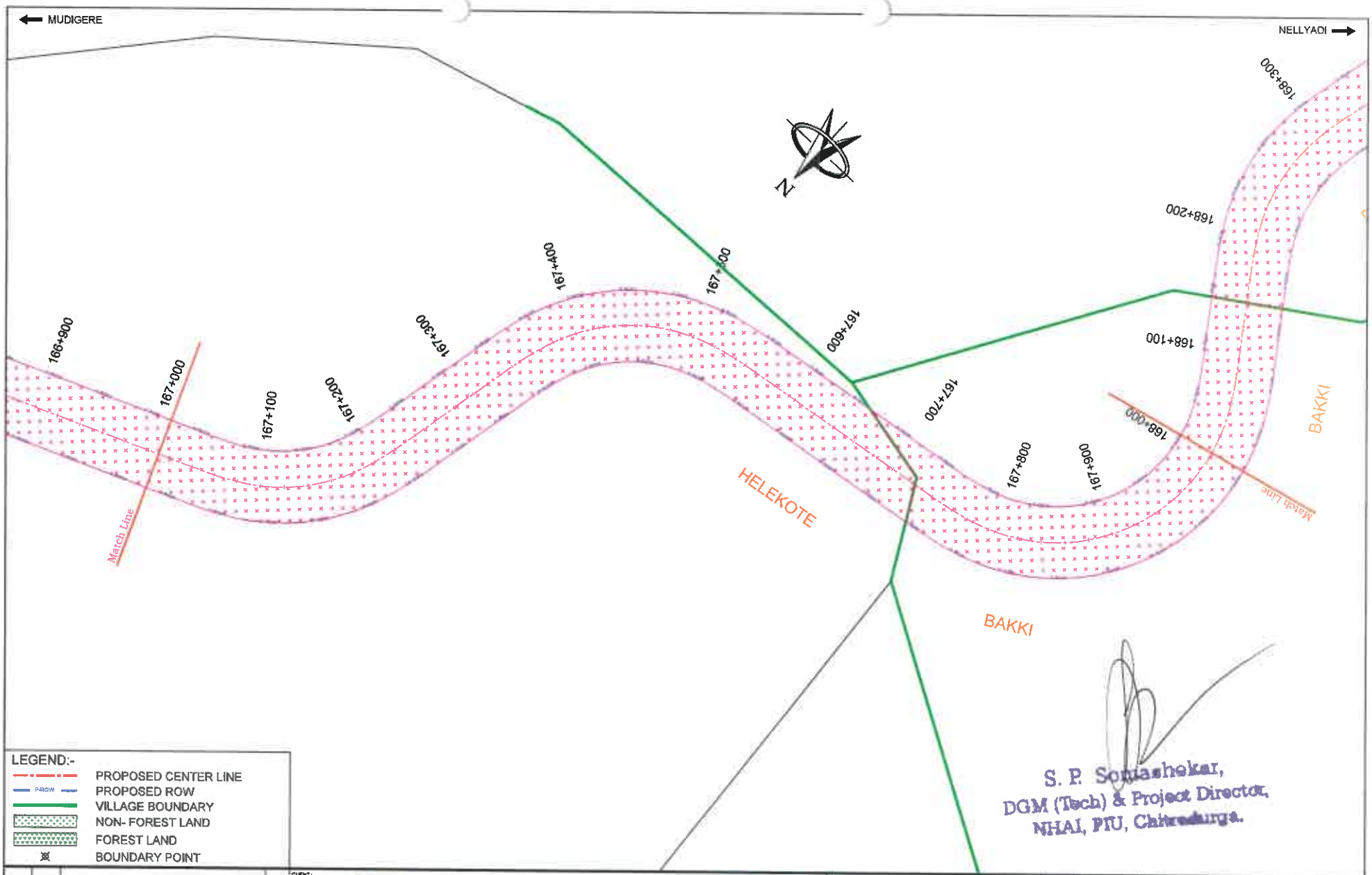
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 166+000 to Km. 167+000)

DRAWING No : 73587\LASA\HWY\M-N\DGPS-04

REV. R0

SCALE : 1:2000

SHEET A2



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 167+000 to Km. 168+000)

DRAWING No.: 73587\LASA\I-WY\M-N\DGPS-05
REV.: R0
SCALE: 1:2000
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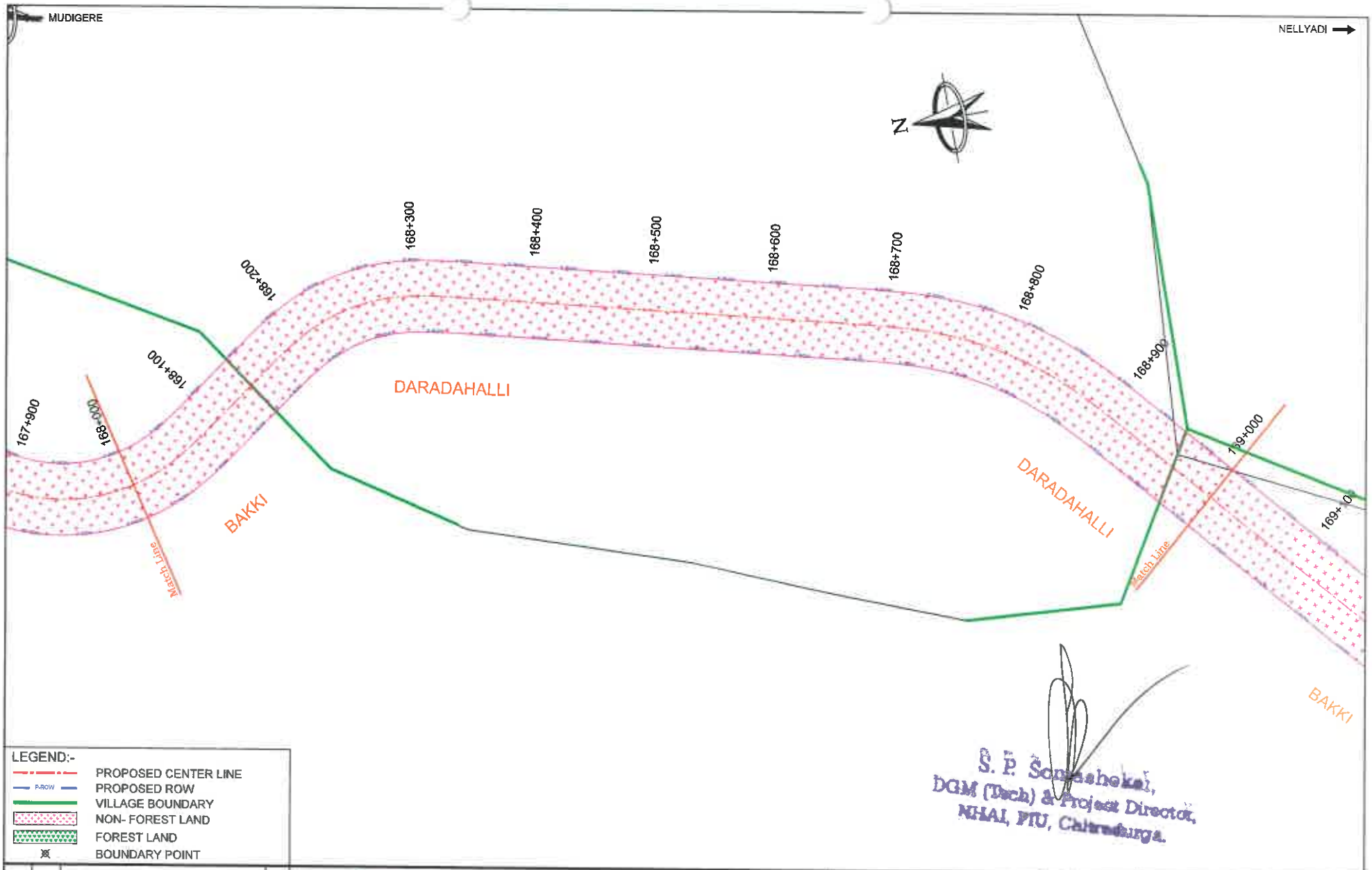


LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

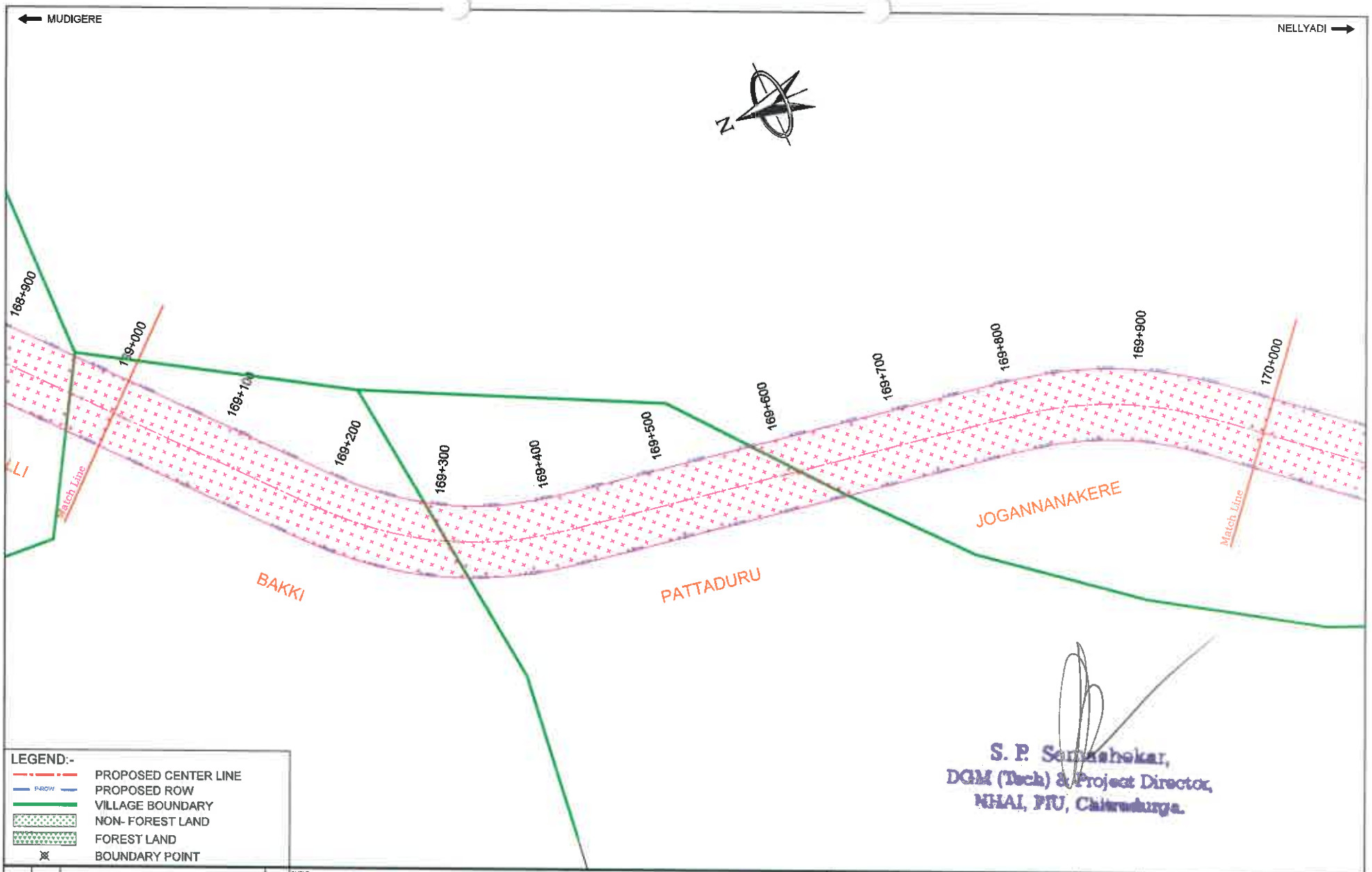
DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baix
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 168+000 to Km. 169+000)

DRAWING No: 73587\LASA\HWY\M-N\DGPS-06 — REV. R0

SCALE: 1:2000 — SHEET A2



S. P. Sarnashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sardar Alam
REVIEWED	J.K.Das
DATE	March 2018

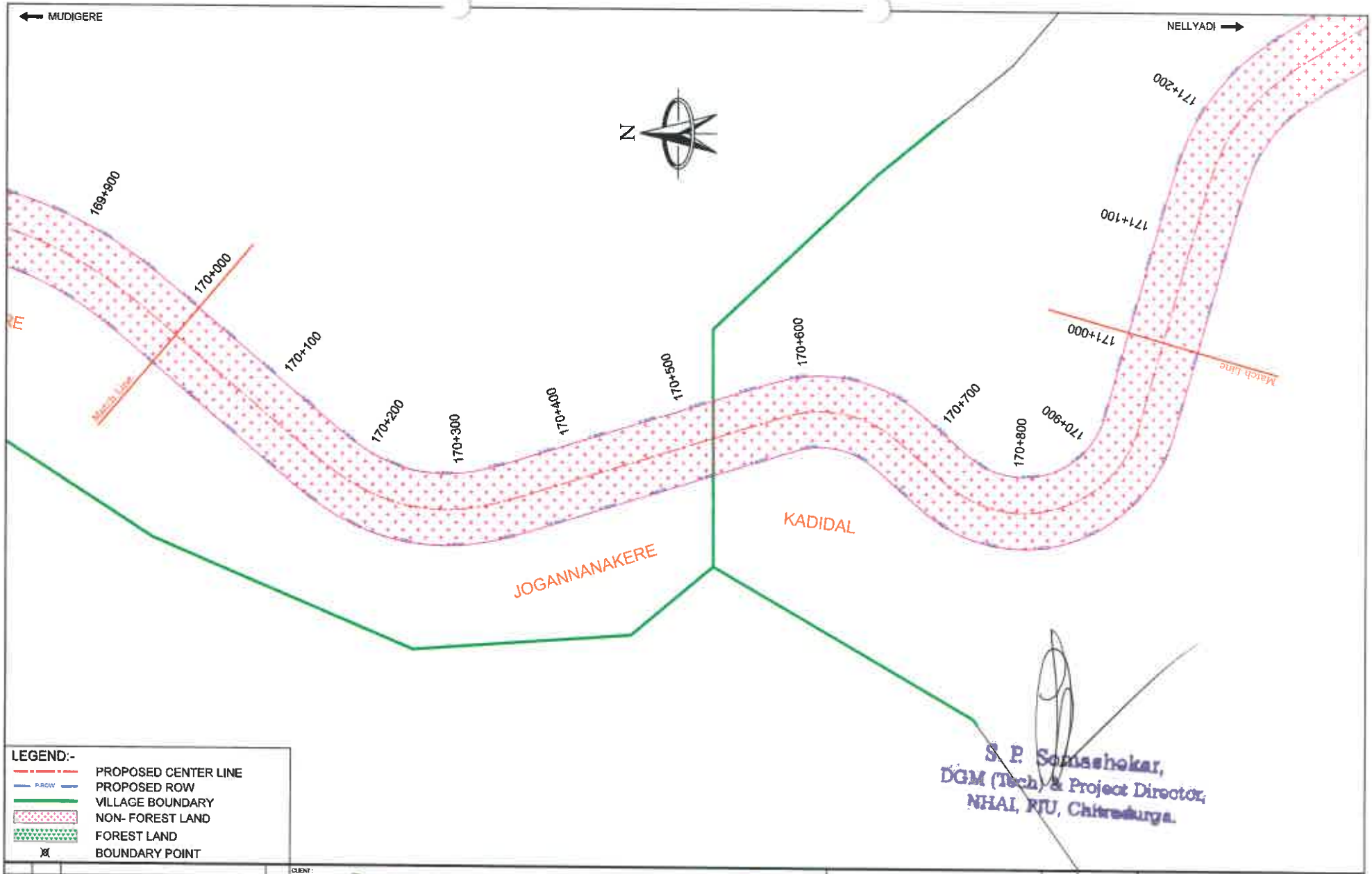
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 169+000 to Km. 170+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-07

REV.: R0

SCALE: 1:2000

SHEET: A2



LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Batir
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

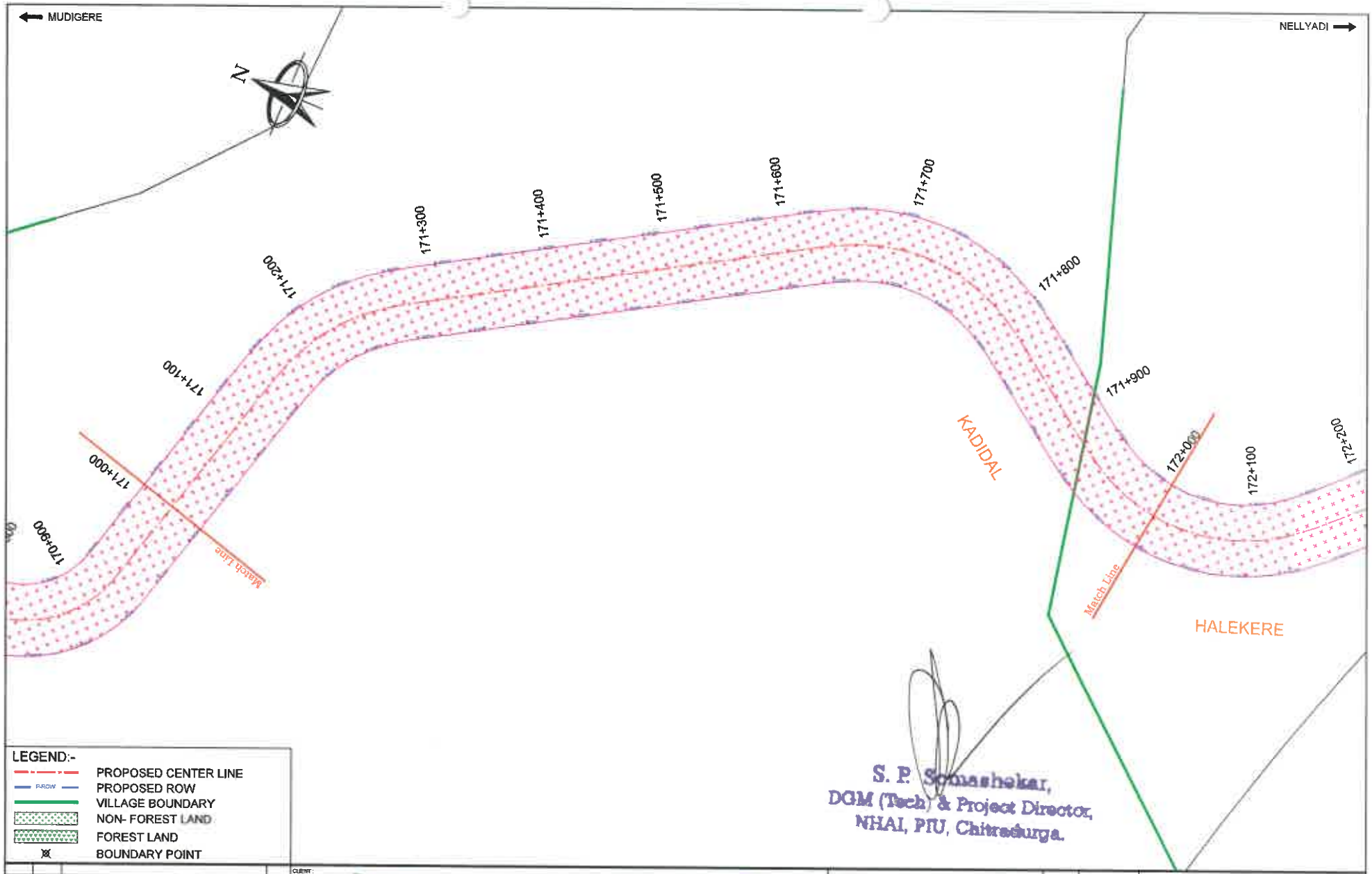
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 170+000 to Km. 171+000)

DRAWING No.: 73587\LASA\HWY\M-NIDGPS-08

REV.: R0

SCALE: 1:2000

SHEET: A2



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

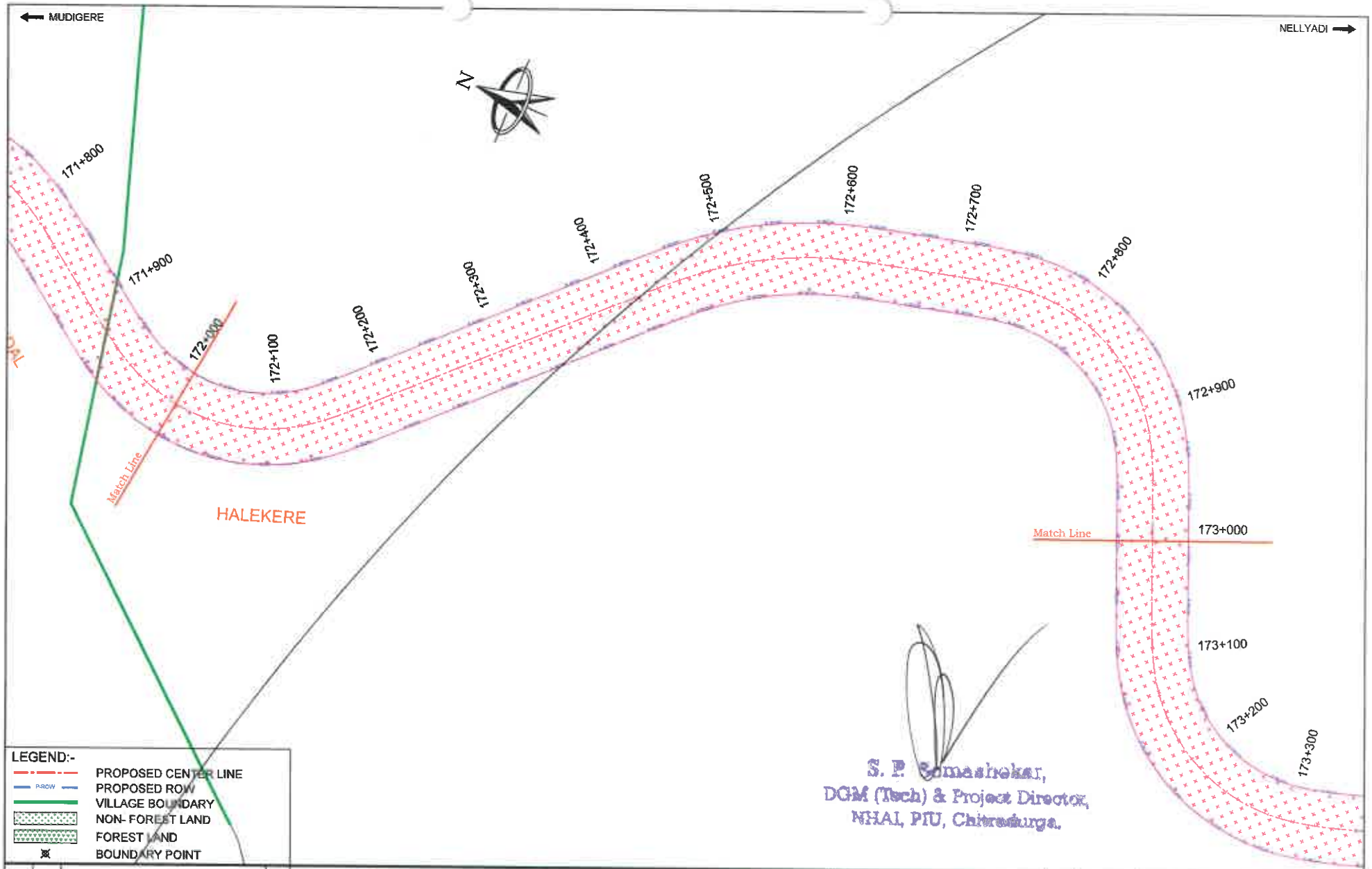
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 171+000 to Km. 172+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-09

REV.: R0

SCALE: 1:2000

SHEET: A2



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT : DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

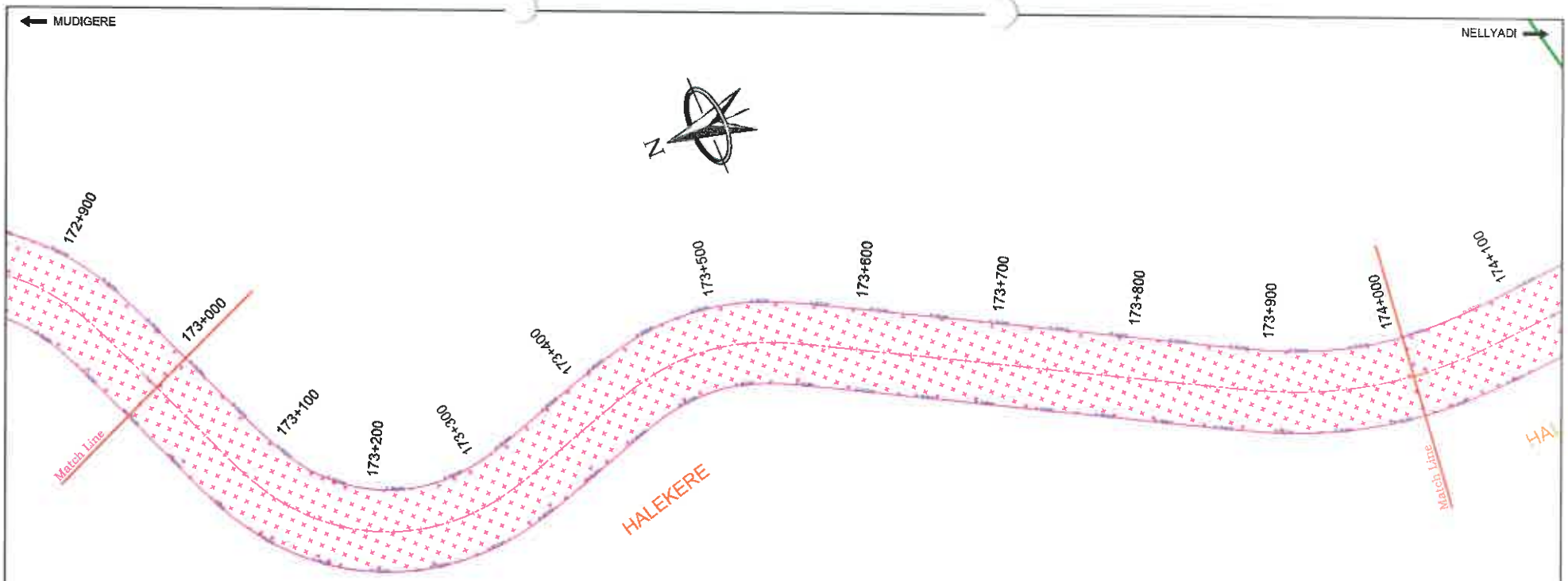
DRAWING TITLE-
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 172+000 to Km. 173+000)

DRAWING No : 73567\LASA\HWY\M-N\DGPS-10

REV. R0

SCALE : 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

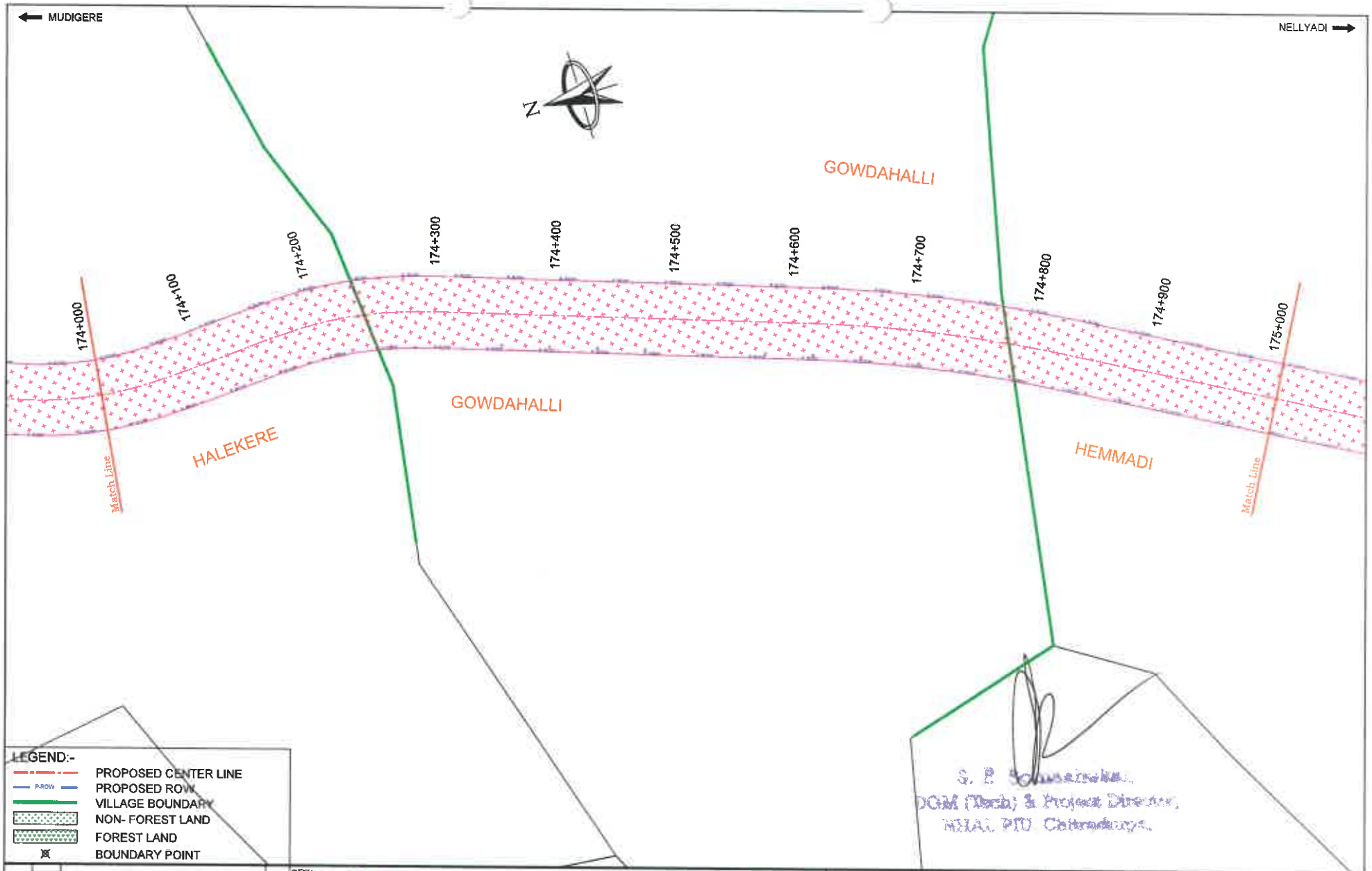
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 173+000 to Km. 174+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-11

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somasekhar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT : DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
S-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

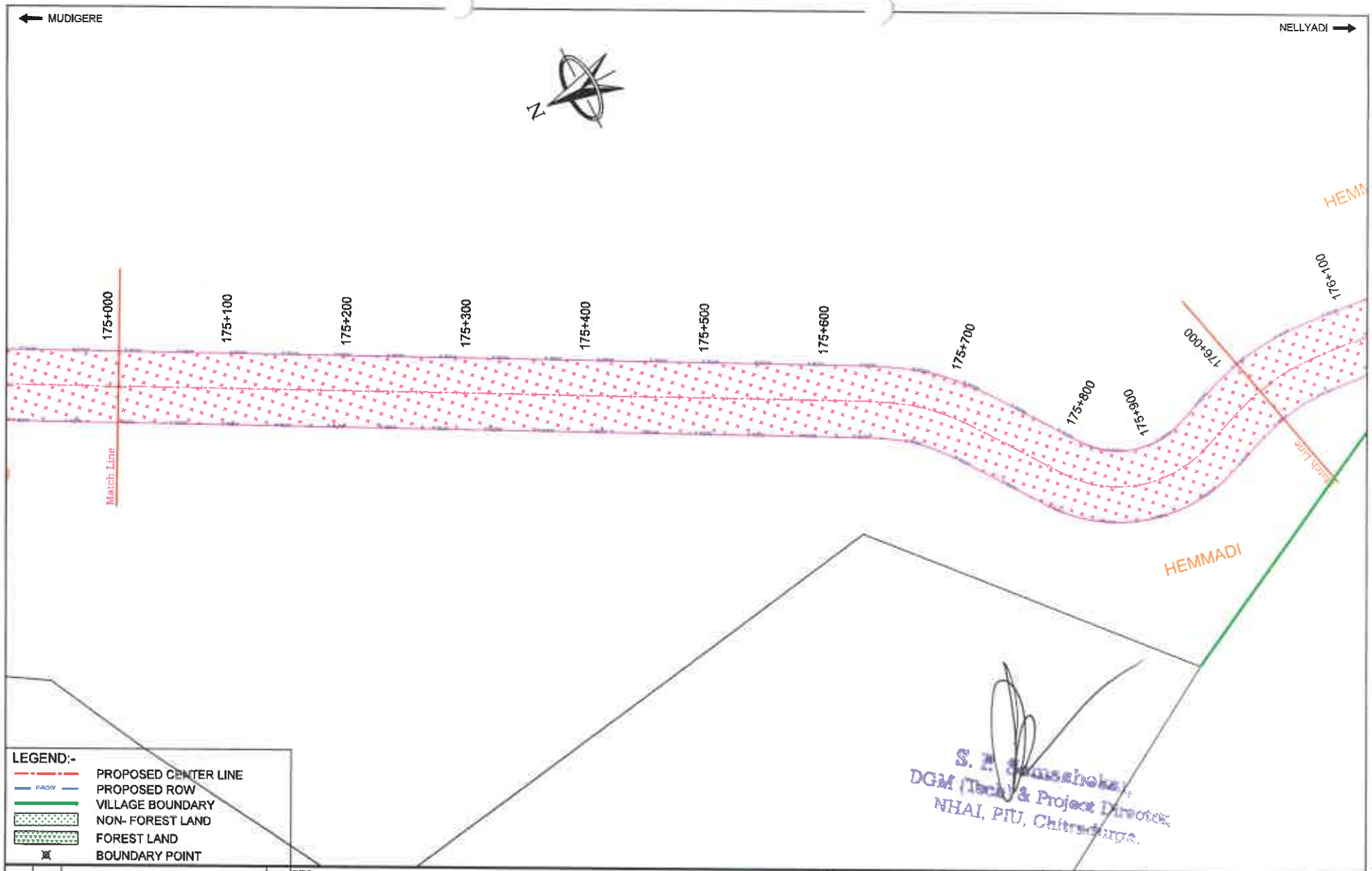
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 174+000 to Km. 175+000)

DRAWING No. : 73587\LASA\I-WY\M-N\DGPS-12

REV. : R0

SCALE : 1:2000

SHEET : A2



S. R. Sunshekar
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tandoy Basir
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

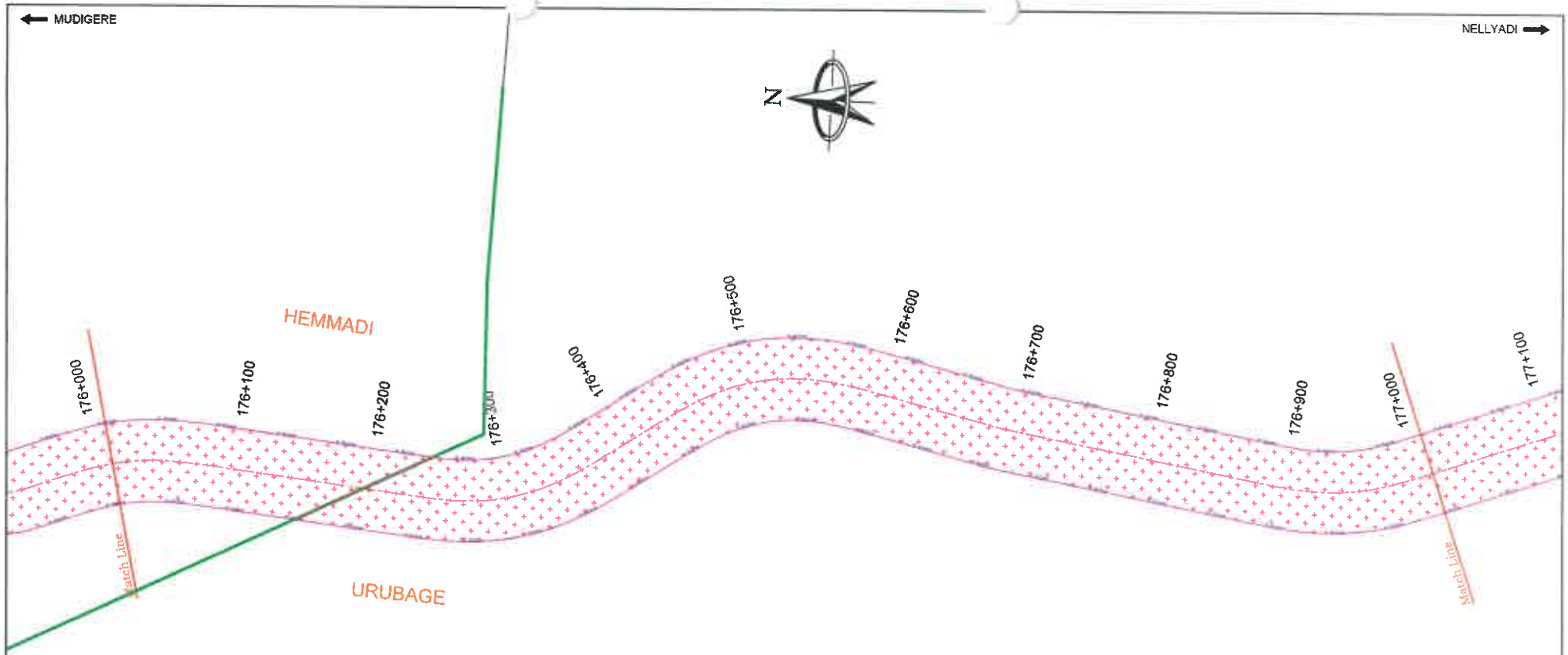
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 175+000 to Km. 176+000)

DRAWING No: 73587\LASA\HWY\M-N\DGPS-13

REV. R0

SCALE: 1:2000

SHEET A2



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sande Alam
REVIEWED	J.K.Das
DATE	March 2018

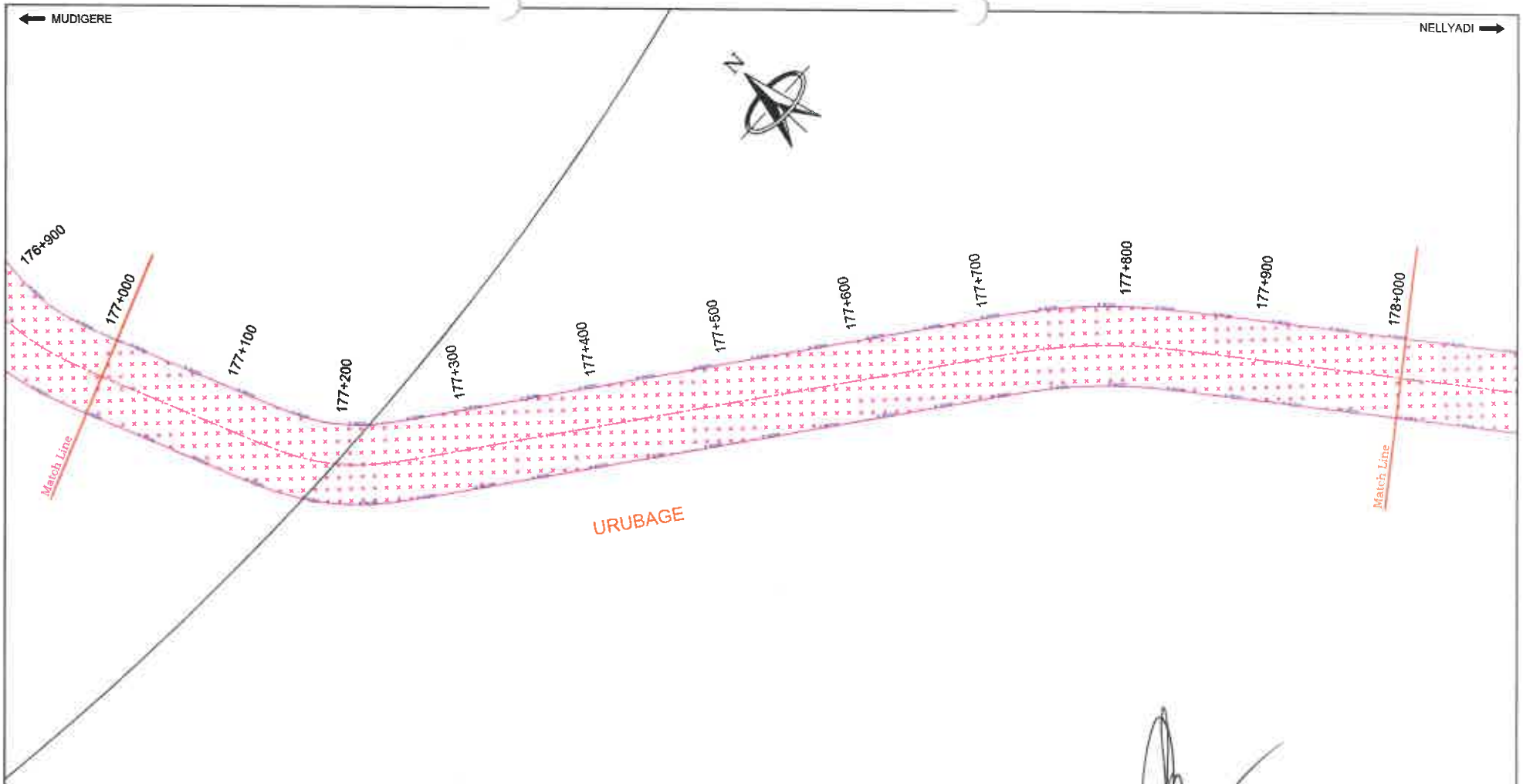
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 176+000 to Km. 177+000)

DRAWING No: 73587\LASAU-WYIM-N\DGPS-14

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

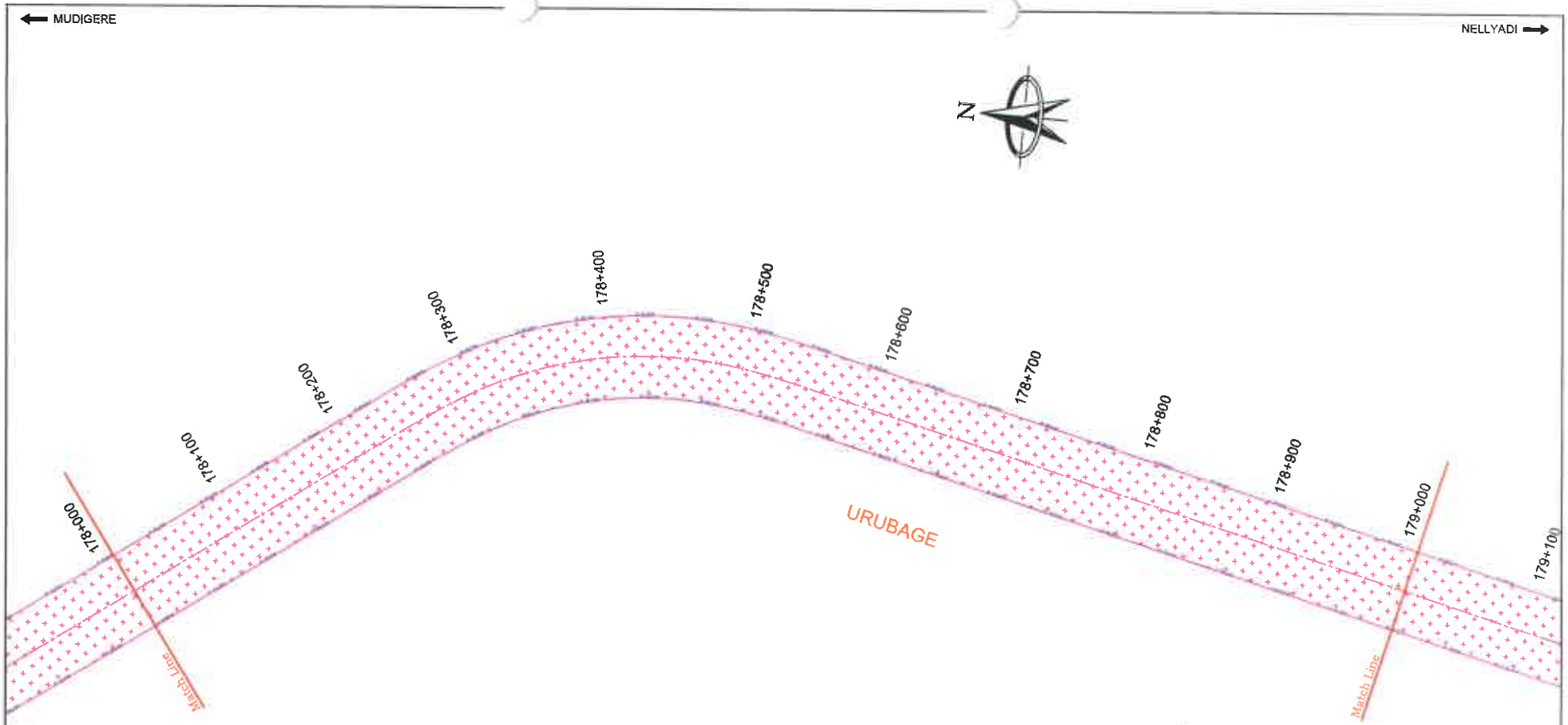
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 177+000 to Km. 178+000)

DRAWING No: 73587\LASA\HWY\M-N\DGPS-15

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Pahwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 178+000 to Km. 179+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-16

REV.: R0

SCALE: 1:2000

SHEET: A2

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

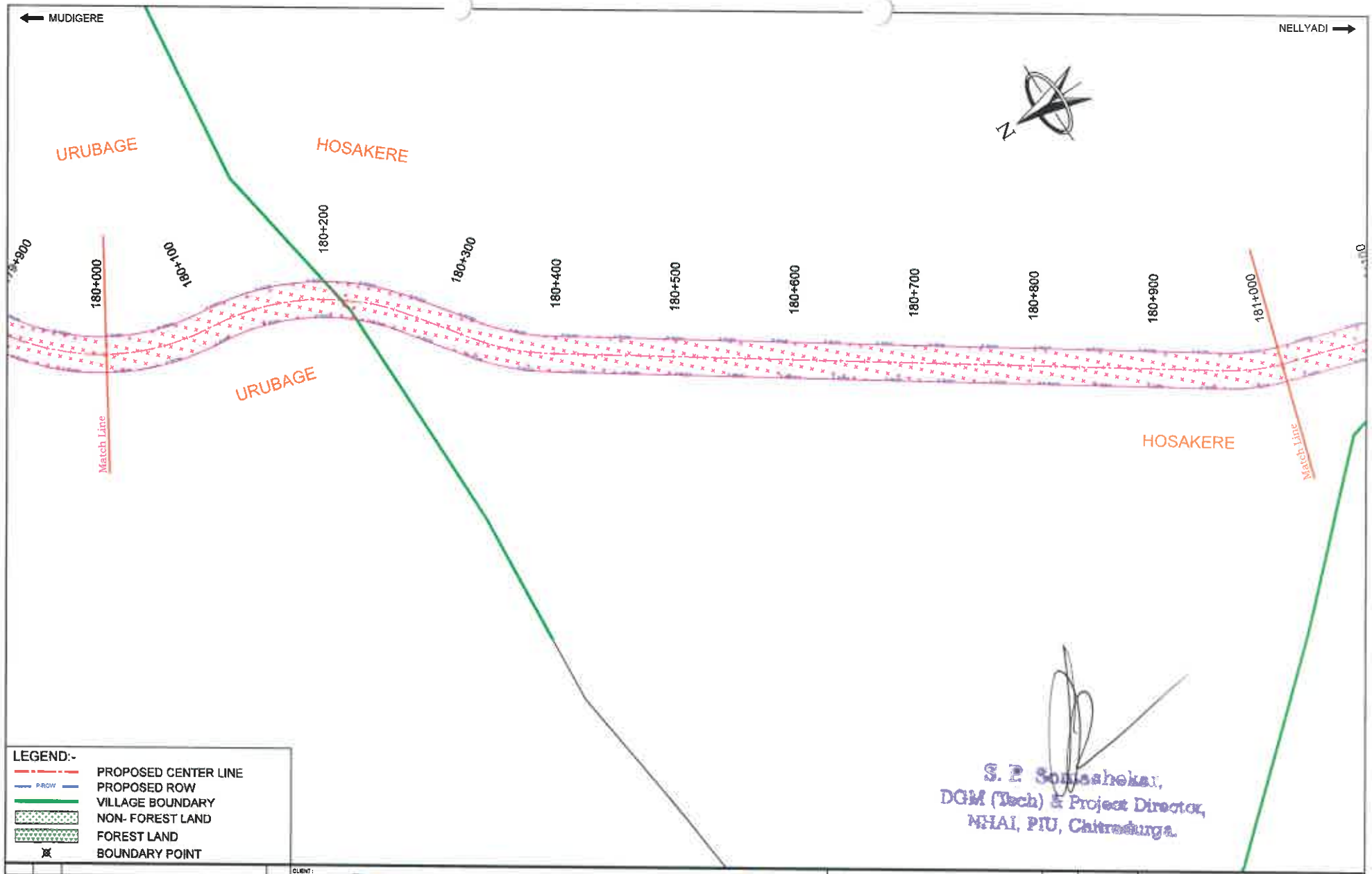
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 179+000 to Km. 180+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-17

REV.: R0

SCALE: 1:2000

SHEET: A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Pahwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

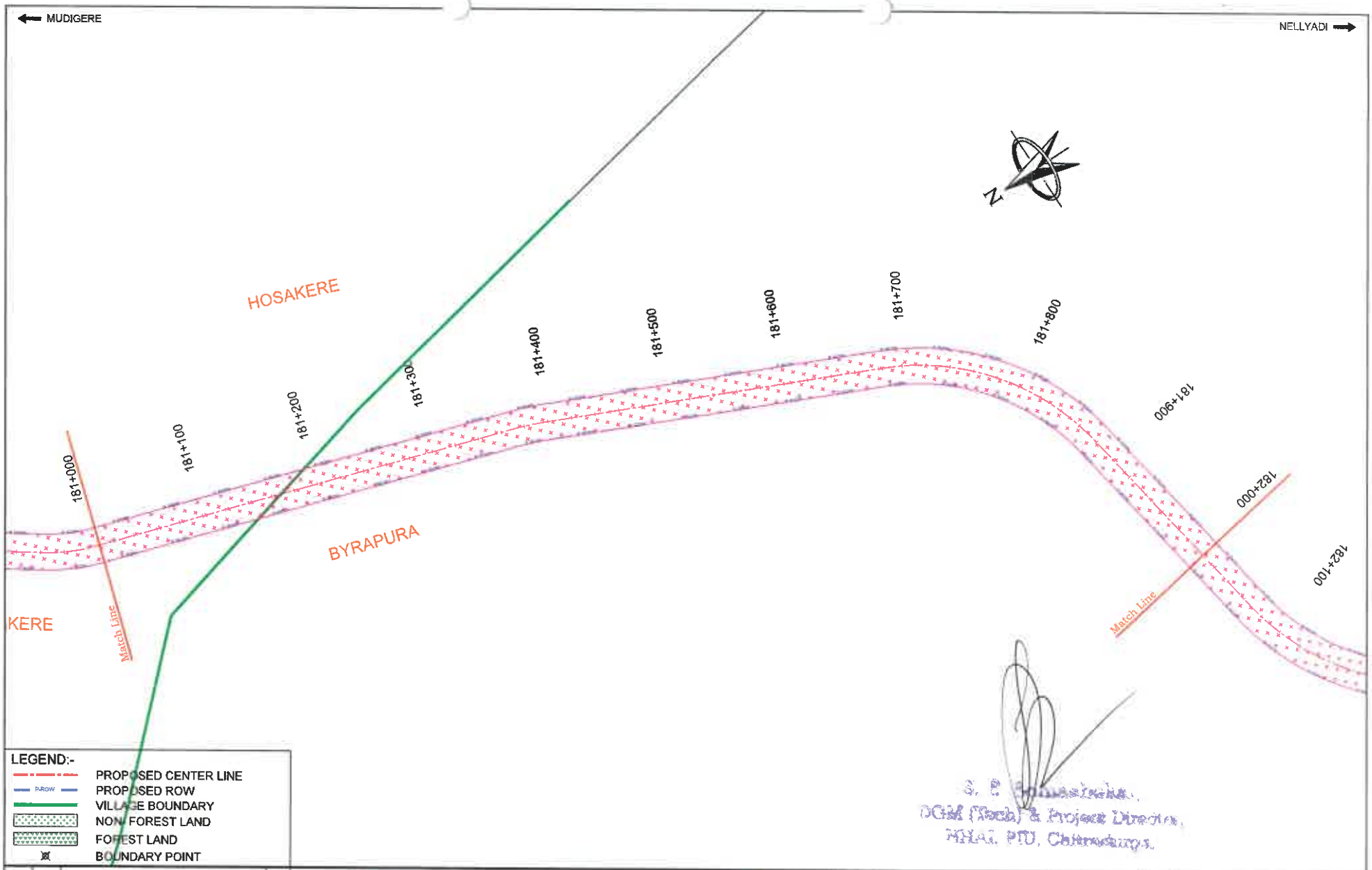
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 180+000 to Km. 181+000)

DRAWING No: 73587/LASA/HWY/M-N/DGPS-18

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. [illegible]
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT :

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

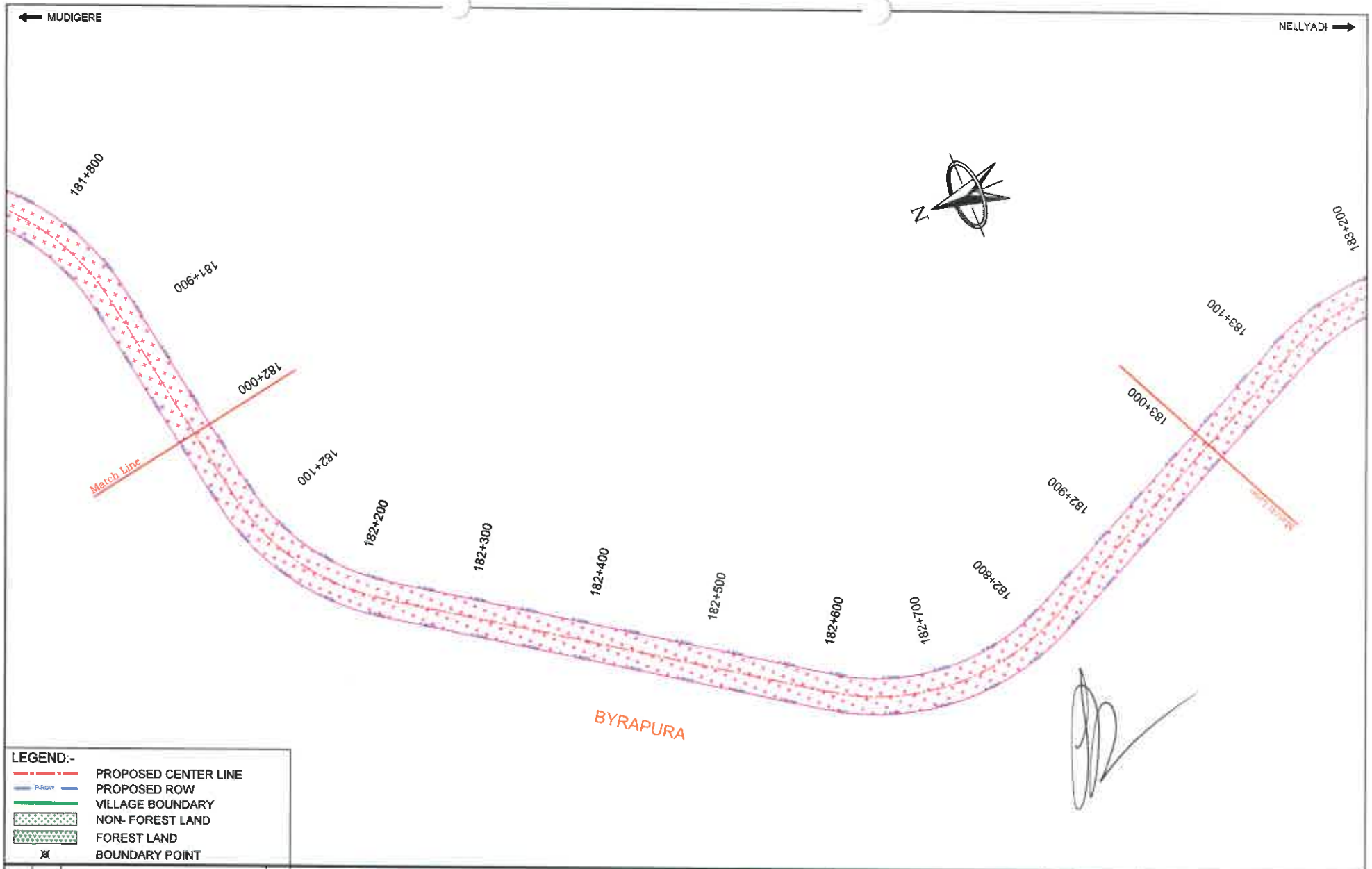
DRAWING TITLE:-
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 181+000 to Km. 182+000)

DRAWING No : 73587\LASA\HWY\M-N\DGPS-19

REV. R0

SCALE : 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Pelwal
DESIGN	Tanmoy Saur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

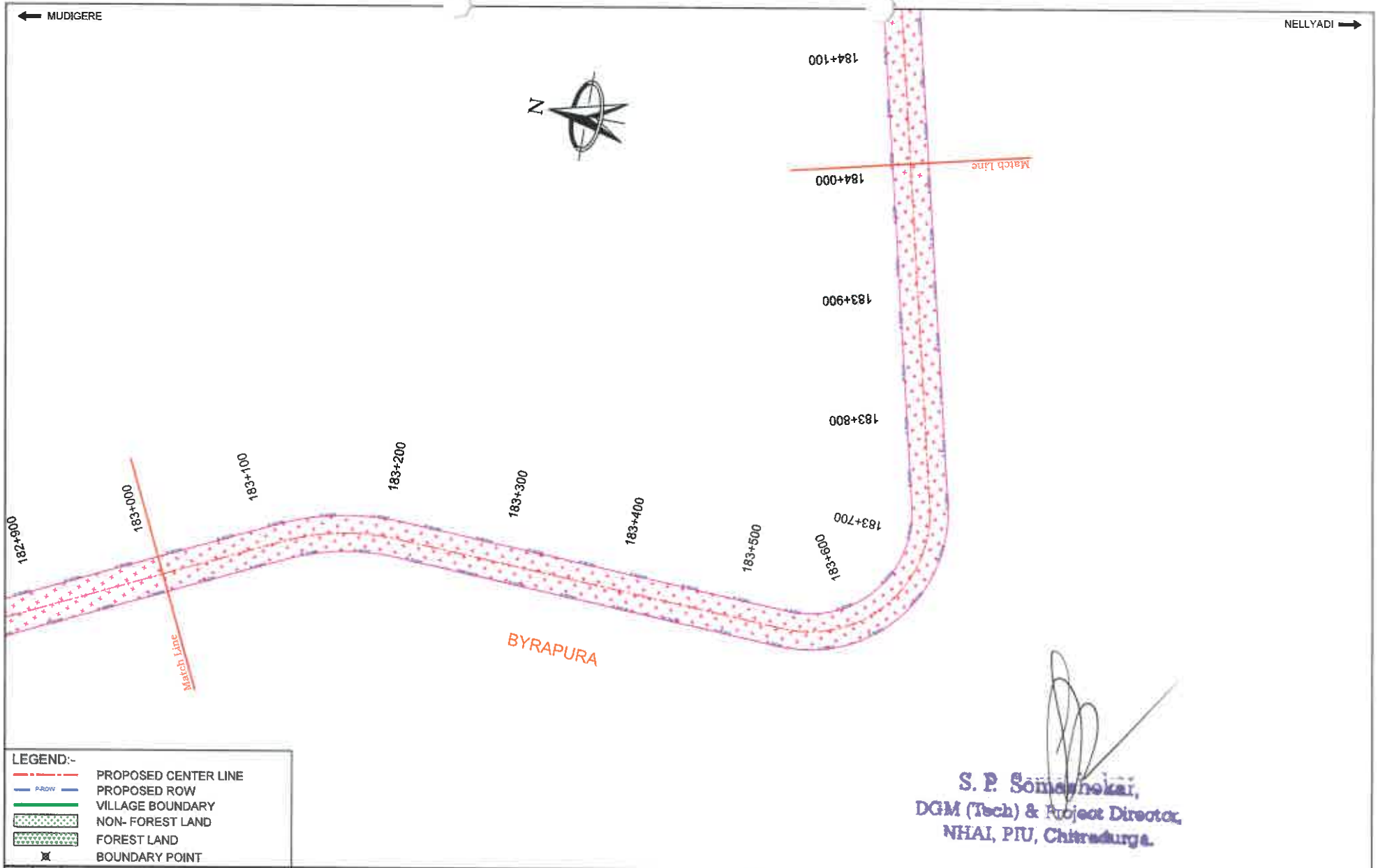
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 182+000 to Km. 183+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-20

REV.: R0

SCALE: 1:2000

SHEET: A2



S. P. Somanhokai,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT :

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

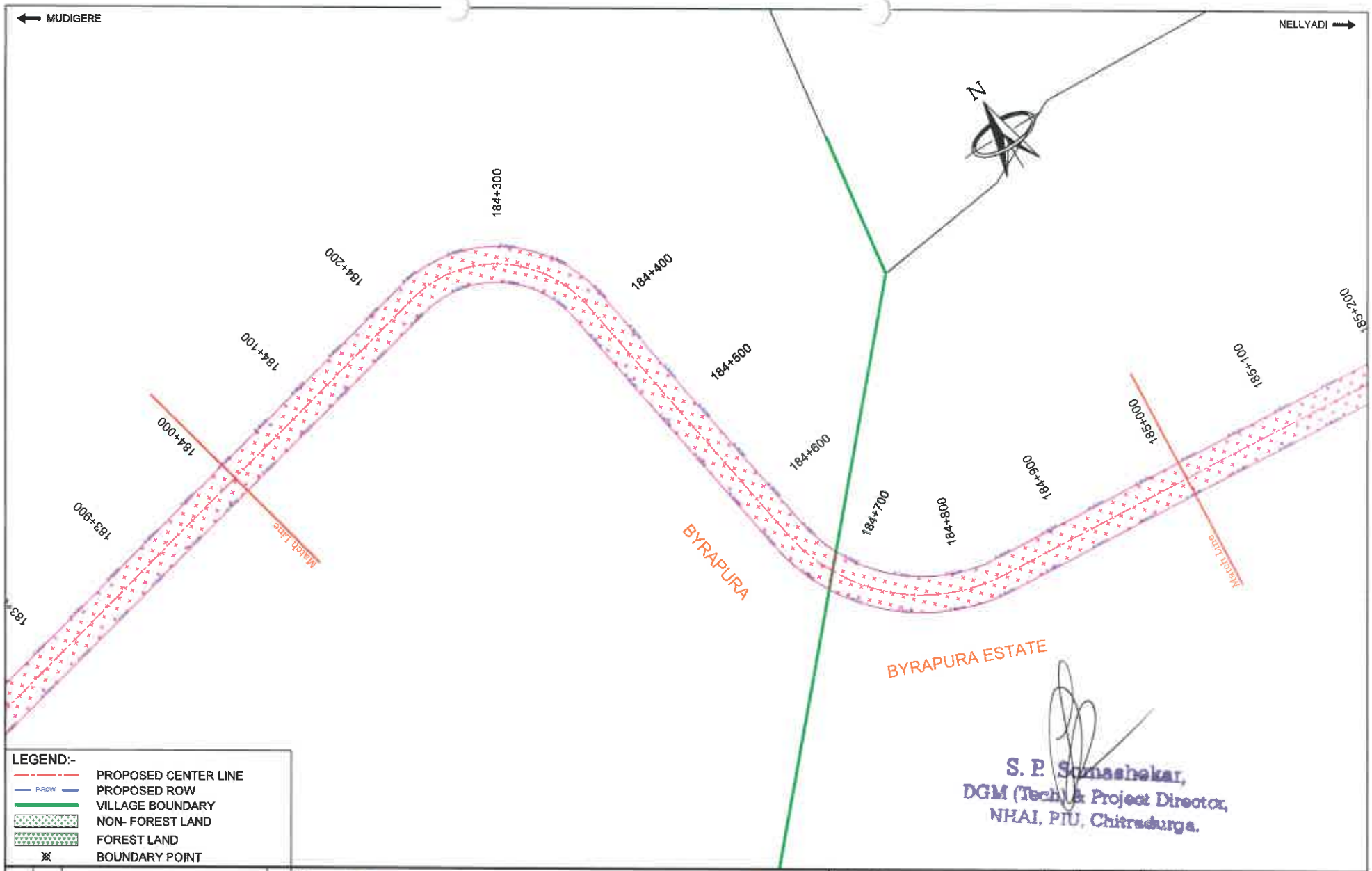
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 183+000 to Km. 184+000)

DRAWING No : 73587\LASA\HWY\M-N\DGPS-21

REV. R0

SCALE : 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

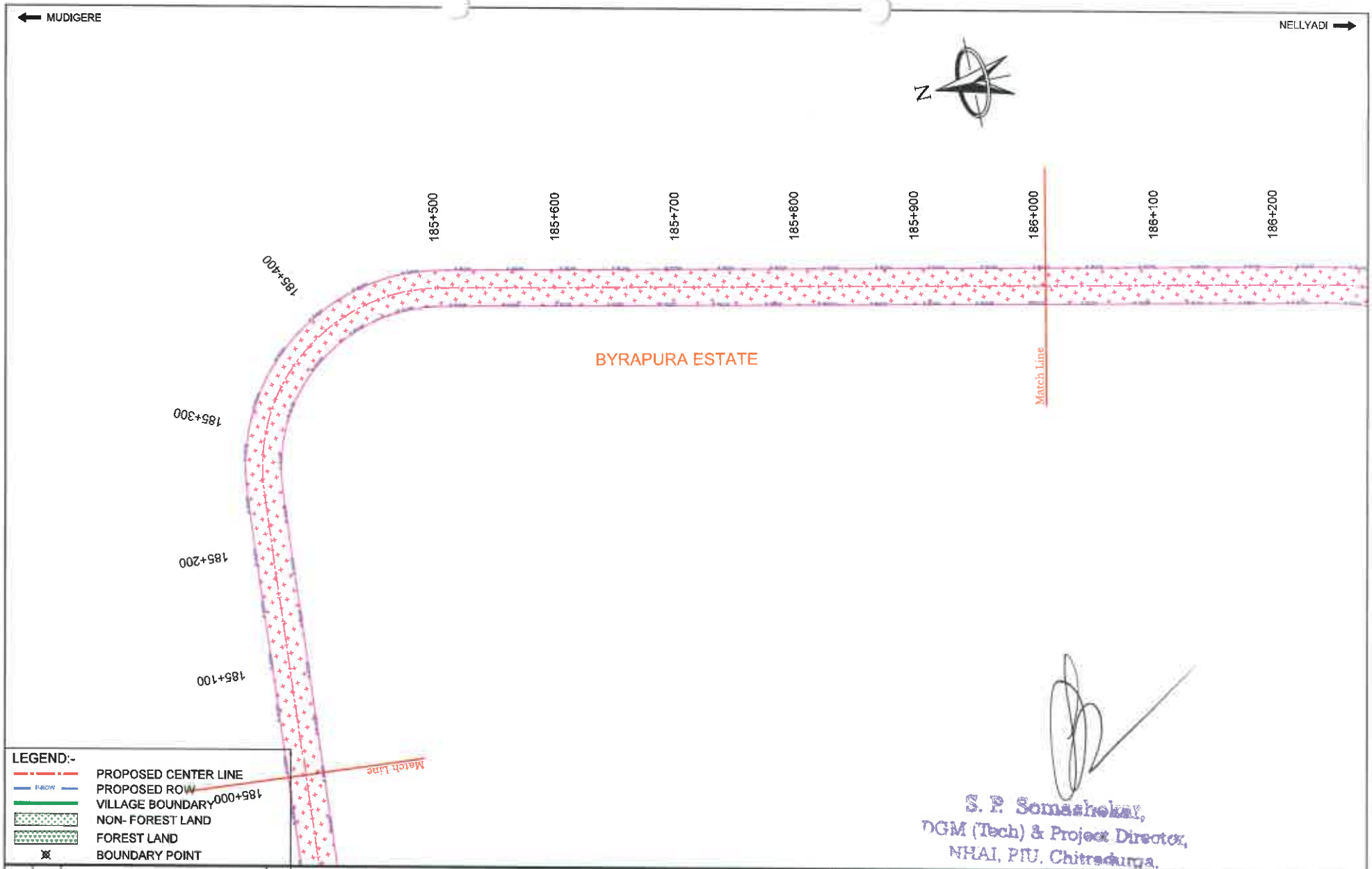
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 184+000 to Km. 185+000)

DRAWING No : 73587\LASAH\WYM-NHDGPS-22 REV. R0

SCALE: 1:2000 SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Pahwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

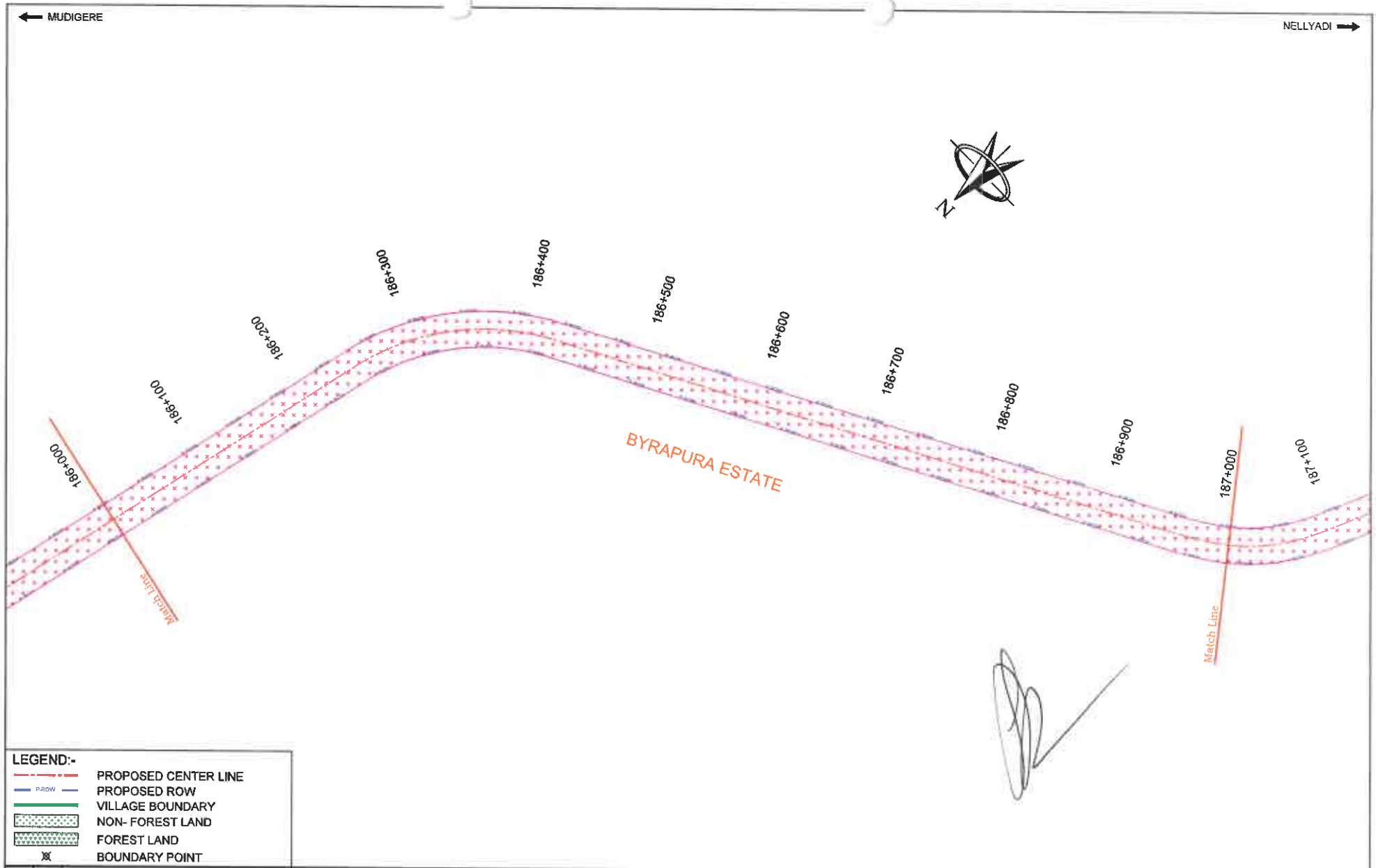
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 185+000 to Km. 186+000)

DRAWING No.: 73587\LASA\HWY\M-NDGPS-23

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Basu
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

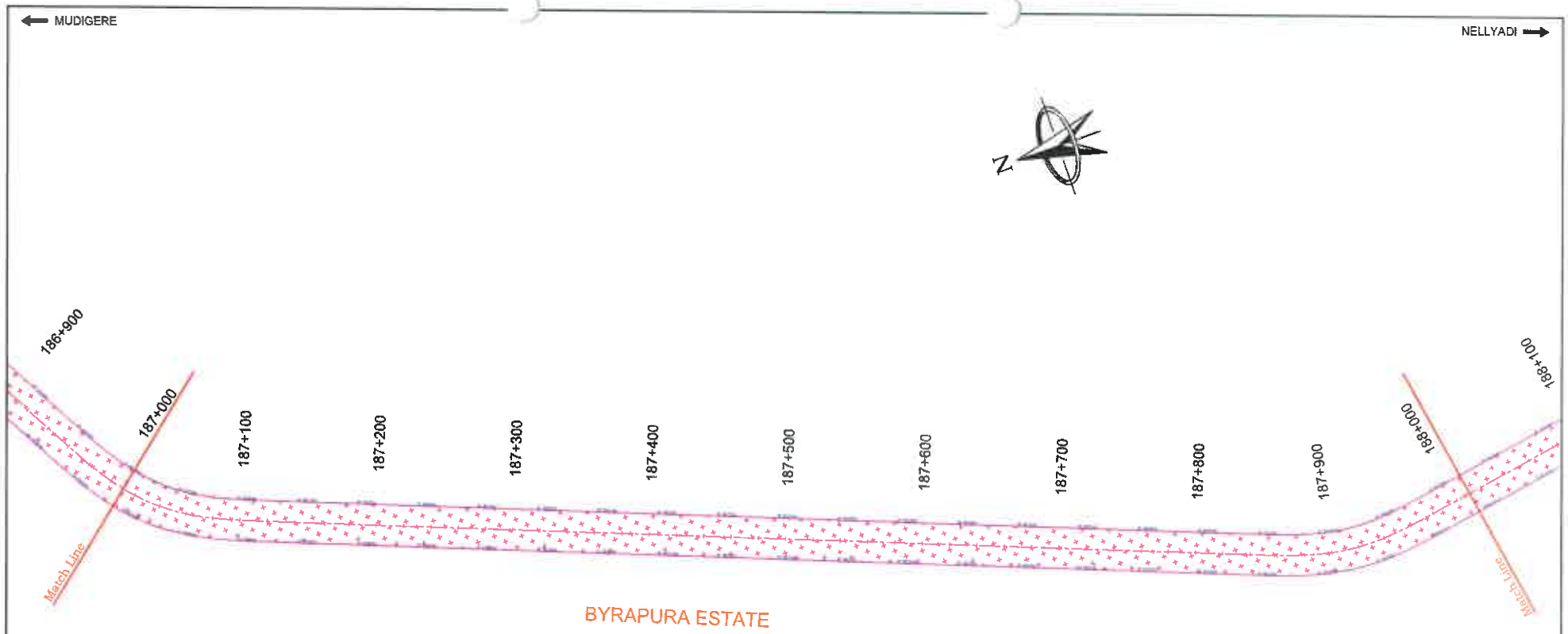
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 186+000 to Km. 187+000)

DRAWING No : 73587/LASAIHWY/M-NDGPS-24

REV. R0

SCALE: 1:2000

SHEET A2



S. S. Soundarajan,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
S-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

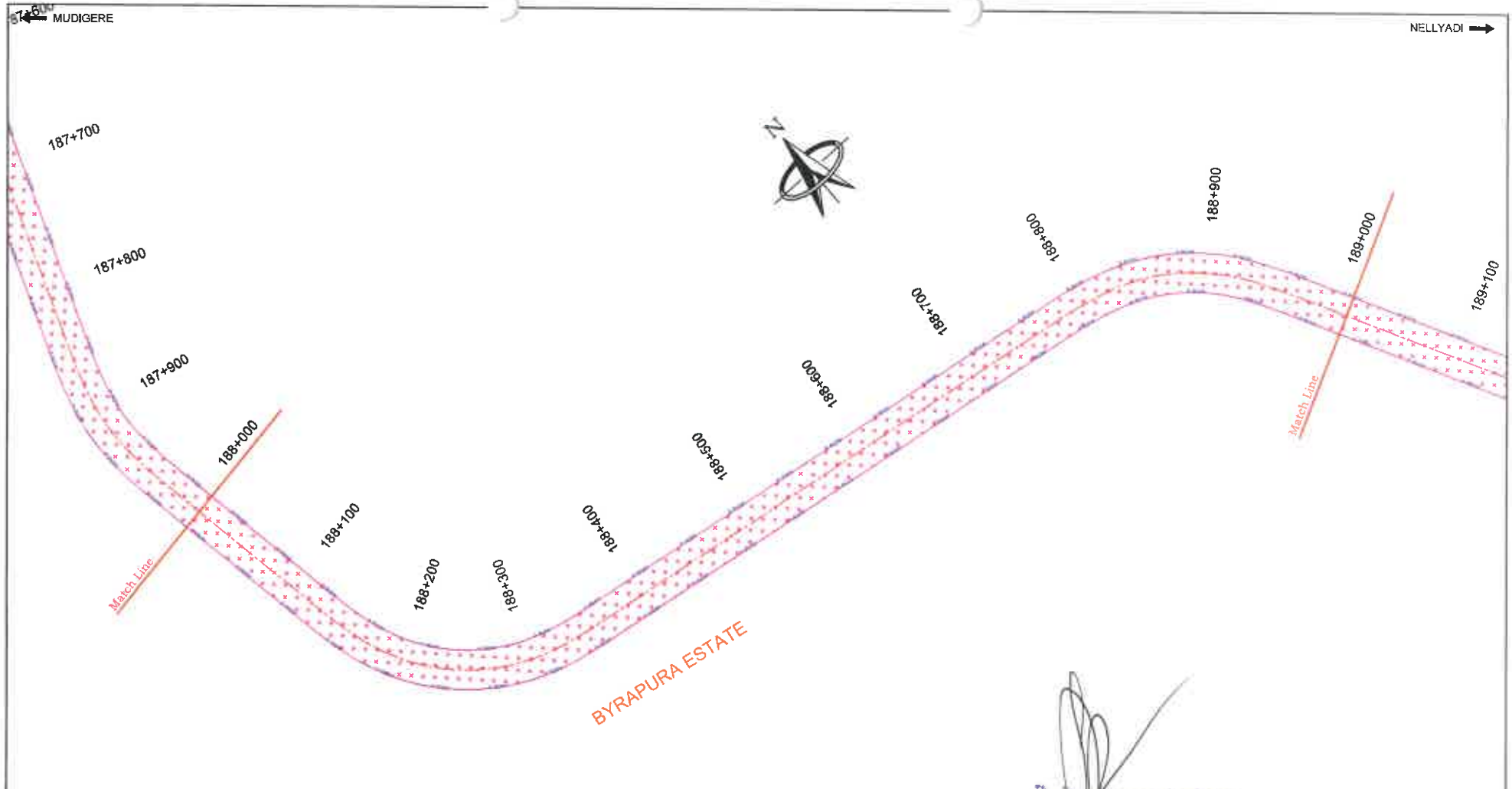
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 187+000 to Km. 188+000)

DRAWING No: 73587\LASA\HWY\M-N\DGPS-25

REV. R0

SCALE: 1:2000

SHEET A2



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2019

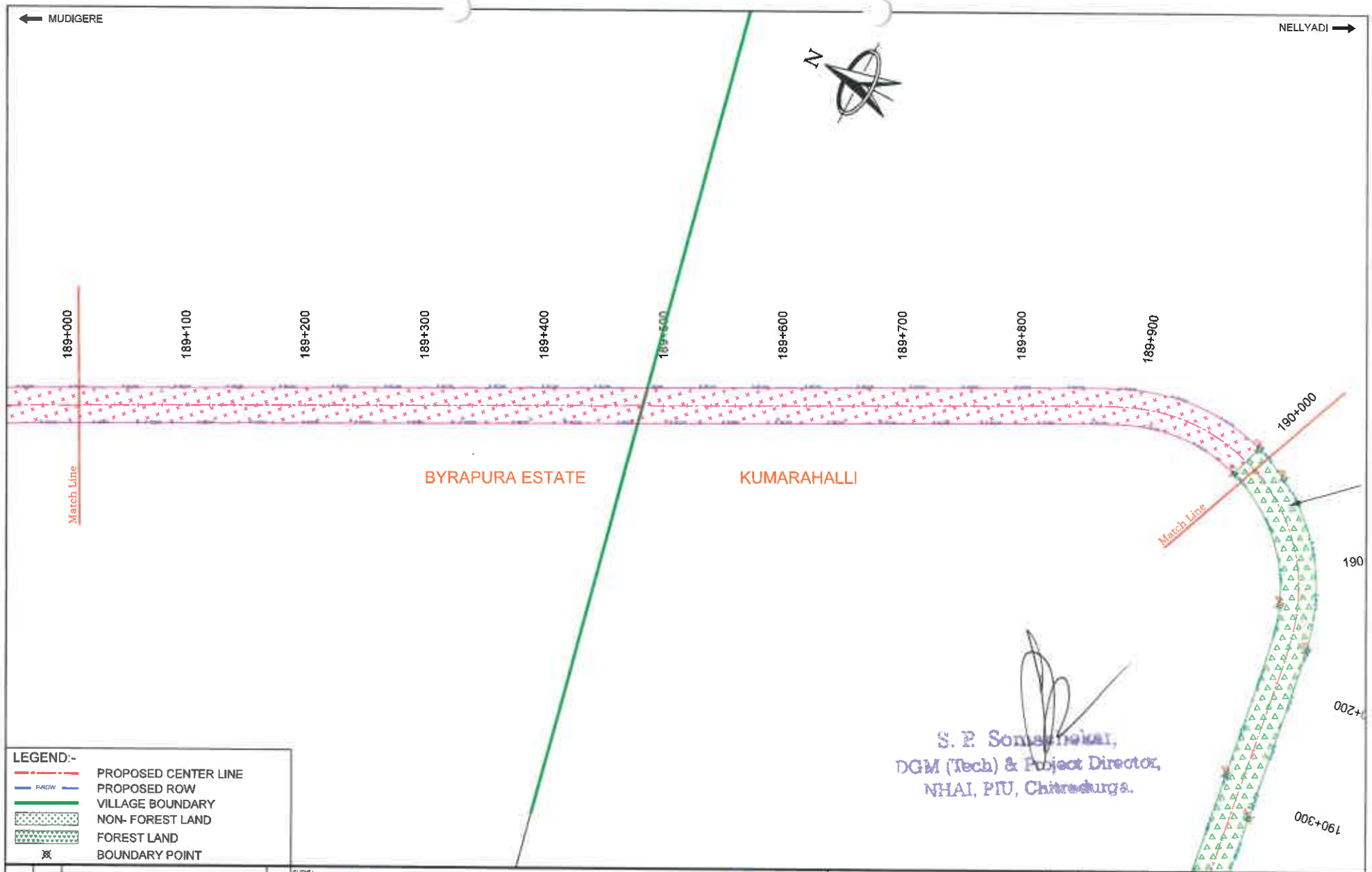
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 188+000 to Km. 189+000)

DRAWING No : 73587\LASA\HWY\M-N\DGPS-26

REV. R0

SCALE : 1:2000

SHEET A2



S. P. Somasekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sayde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 189+000 to Km. 190+000)

DRAWING No.: 73587/LASA/HWY/M-N/DGPS-27
REV.: R0
SCALE: 1:2000
SHEET: A2

Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P1	1	564269.627	1430244.538	12° 56" 13.243'	75° 35" 33.03'
	2	564298.109	1430235.117	12° 56" 12.934'	75° 35" 33.975'
	3	564285.053	1430205.662	12° 56" 11.976'	75° 35" 33.539'
	4	564189.324	1430160.704	12° 56" 10.52'	75° 35" 30.359'
	5	564165.686	1430123.179	12° 56" 9.3'	75° 35" 29.572'
	6	564041.689	1430135.563	12° 56" 9.713'	75° 35" 25.457'
	7	564017.218	1430101.868	12° 56" 8.618'	75° 35" 24.643'
	8	563893.121	1430114.885	12° 56" 9.051'	75° 35" 20.525'
	9	563869.650	1430081.190	12° 56" 7.956'	75° 35" 19.711'
	10	563744.553	1430094.207	12° 56" 8.389'	75° 35" 15.593'
	11	563720.082	1430060.512	12° 56" 7.294'	75° 35" 14.778'
	12	563595.985	1430073.529	12° 56" 7.727'	75° 35" 10.661'
	13	563571.514	1430039.834	12° 56" 6.632'	75° 35" 9.846'
	14	563447.784	1430050.782	12° 56" 6.998'	75° 35" 5.741'
	15	563425.216	1430010.104	12° 56" 5.675'	75° 35" 4.989'

J. P. Srivastava,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

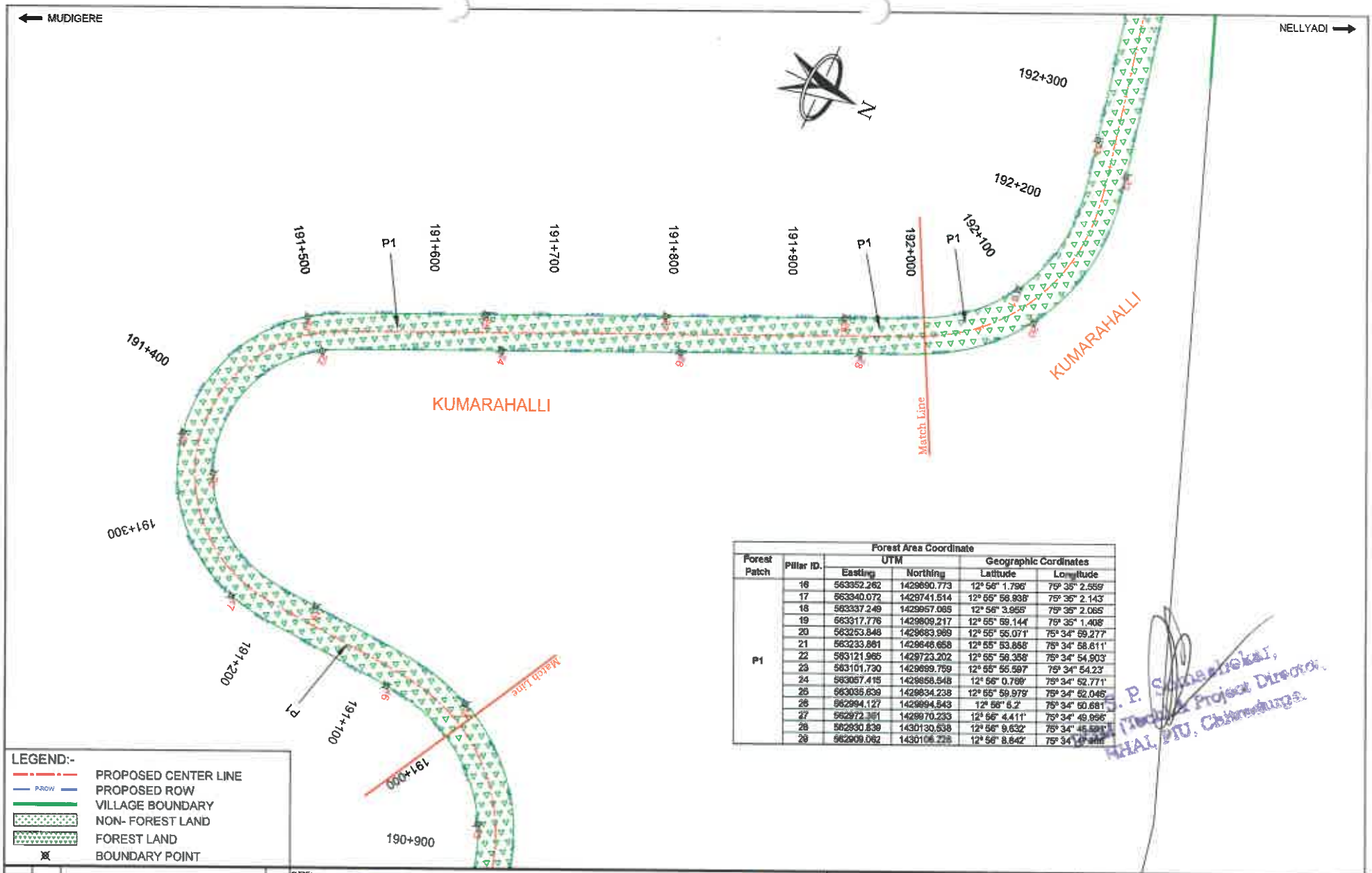
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 190+000 to Km. 191+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-28

REV.: R0

SCALE: 1:2000

SHEET: A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P1	16	563352.262	1429690.773	12° 56" 1.796'	75° 35" 2.559'
	17	563340.072	1429741.514	12° 55" 59.938'	75° 35" 2.143'
	18	563337.249	1429957.085	12° 56" 3.955'	75° 35" 2.065'
	19	563317.776	1429809.217	12° 55" 59.144'	75° 35" 1.408'
	20	563253.848	1429683.969	12° 55" 55.071'	75° 34" 59.277'
	21	563233.861	1429646.658	12° 55" 53.858'	75° 34" 58.611'
	22	563121.965	1429723.202	12° 55" 56.358'	75° 34" 54.903'
	23	563101.730	1429699.759	12° 55" 55.597'	75° 34" 54.23'
	24	563057.415	1429658.548	12° 56" 0.769'	75° 34" 52.771'
	25	563035.639	1429634.238	12° 55" 59.979'	75° 34" 52.046'
	26	562994.127	1429994.543	12° 56" 5.2'	75° 34" 50.681'
	27	562972.361	1429970.233	12° 56" 4.411'	75° 34" 49.956'
	28	562930.839	1430130.538	12° 56" 9.632'	75° 34" 48.591'
	29	562909.062	1430106.228	12° 56" 8.842'	75° 34" 47.866'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 191+000 to Km. 192+000)

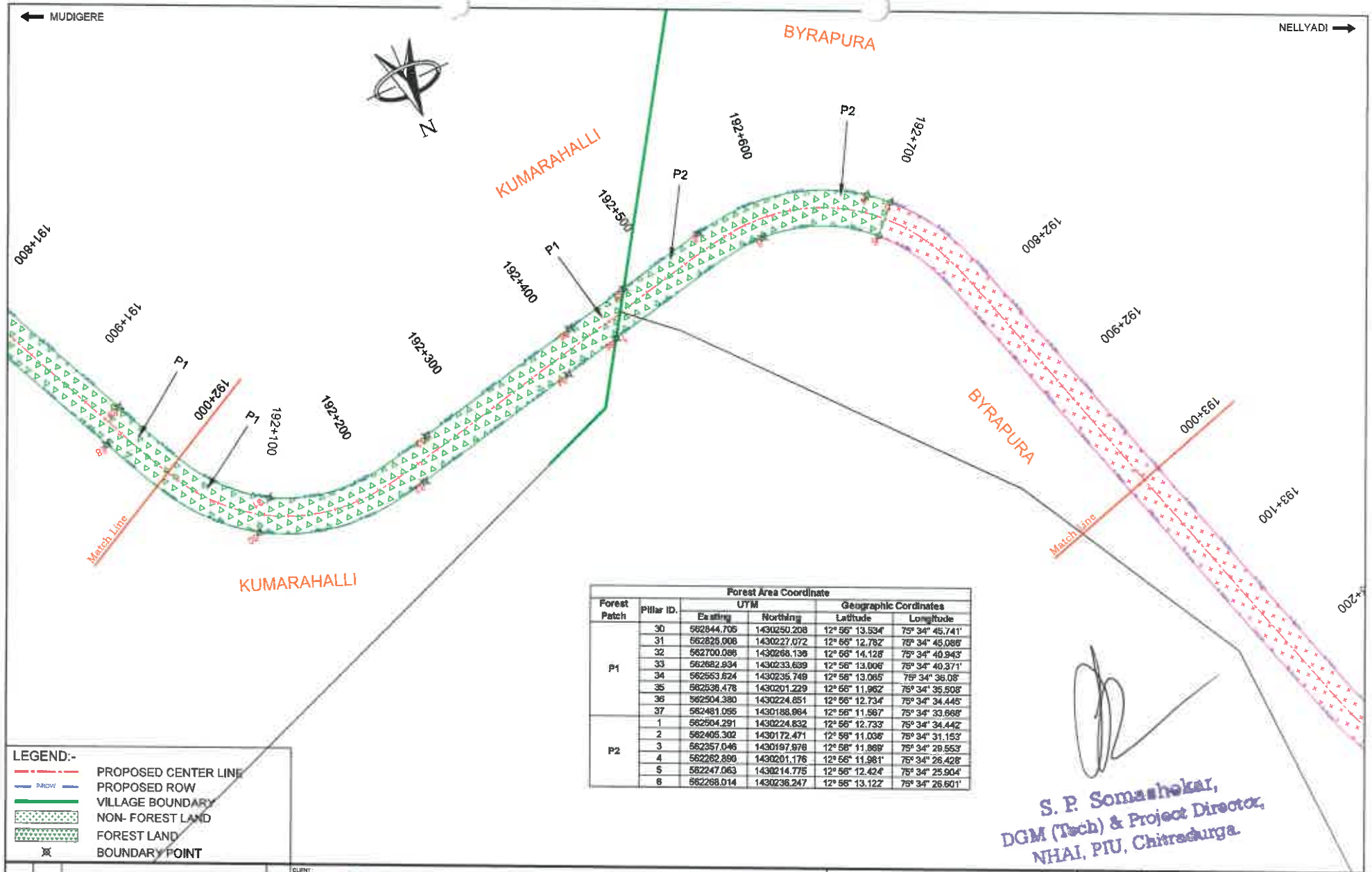
DRAWING No: 73587\LASA\HWY\M-N\DGPS-29

REV. R0

SCALE: 1:2000

SHEET A2

S. P. S. Chandrakkal, (Technical) Project Director, RHAI, PIU, Chikmagalur.



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P1	30	562844.705	1430250.208	12° 56" 13.534'	75° 34" 45.741'
	31	562826.008	1430227.072	12° 56" 12.782'	75° 34" 45.086'
	32	562700.086	1430268.136	12° 56" 14.128'	75° 34" 40.943'
	33	562682.934	1430233.639	12° 56" 13.006'	75° 34" 40.371'
	34	562553.624	1430235.749	12° 56" 13.065'	75° 34" 36.08'
	35	562538.478	1430201.229	12° 56" 11.962'	75° 34' 35.508'
	36	562504.380	1430224.651	12° 56" 12.734'	75° 34" 34.445'
	37	562481.055	1430188.984	12° 56" 11.567'	75° 34' 33.668'
P2	1	562504.291	1430224.832	12° 56" 12.733'	75° 34' 34.442'
	2	562405.302	1430172.471	12° 56" 11.036'	75° 34" 31.153'
	3	562357.046	1430197.976	12° 56" 11.869'	75° 34" 29.553'
	4	562262.890	1430201.176	12° 56" 11.981'	75° 34" 26.428'
	5	562247.063	1430214.775	12° 56" 12.424'	75° 34" 25.904'
	6	562268.014	1430236.247	12° 56" 13.122'	75° 34" 26.601'

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY
REVISIONS			

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

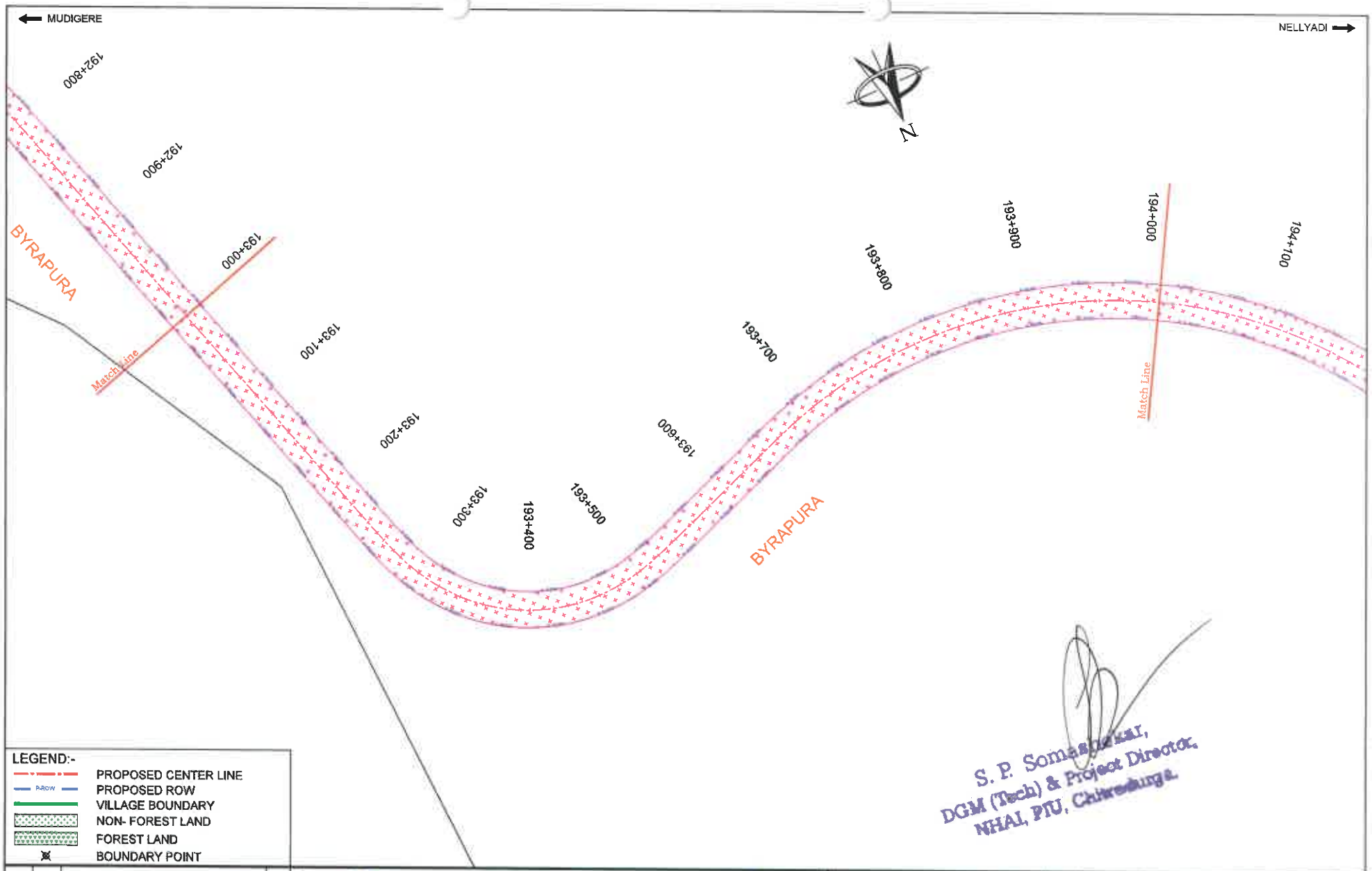
DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Serdo Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 192+000 to Km. 193+000)

DRAWING No.: 73587\LASA\HWY\M-NIDGPS-30
REV. R0
SCALE: 1:2000
SHEET A2



S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

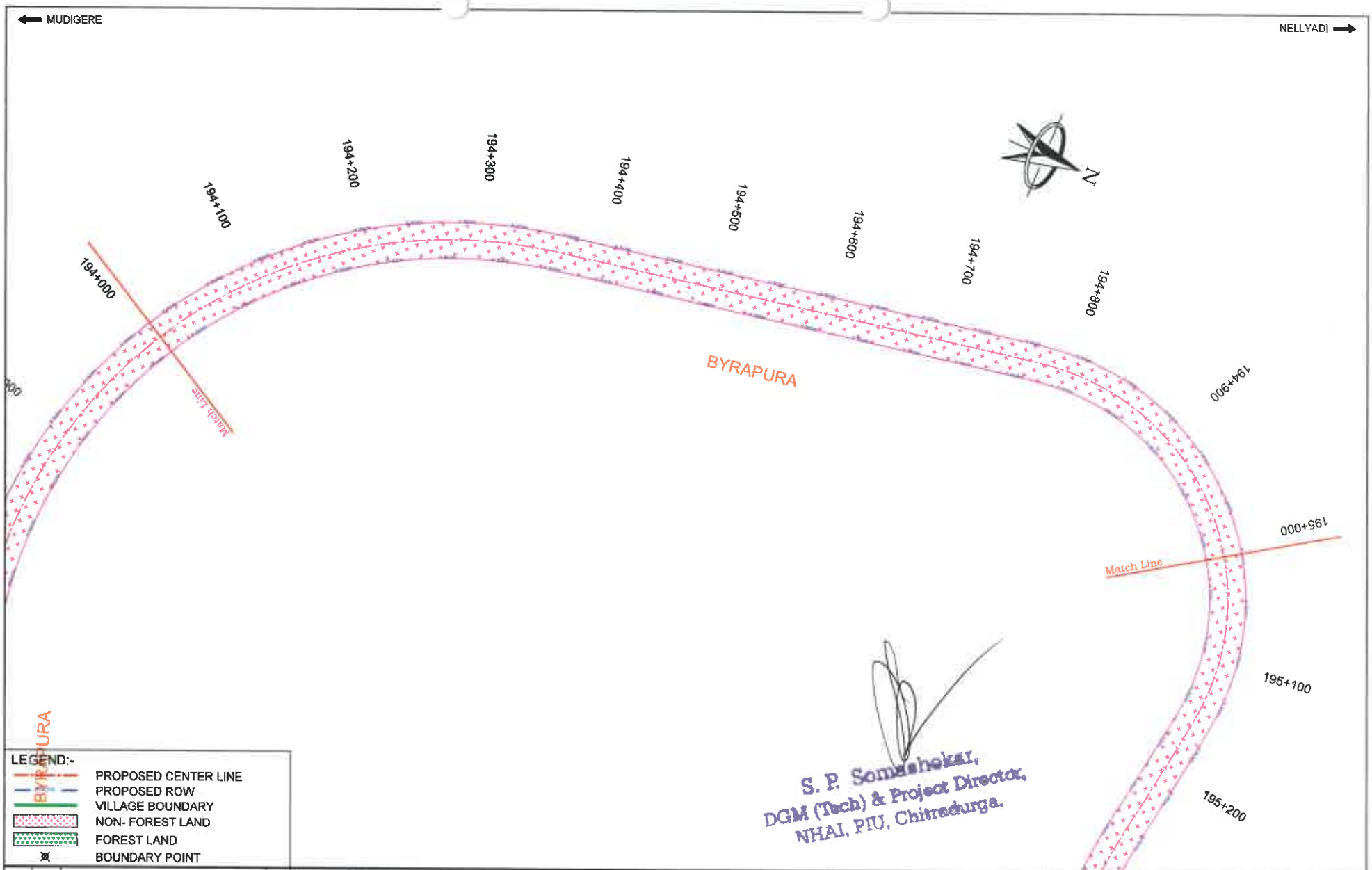
PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 193+000 to Km. 194+000)

DRAWING No.: 73587\LASAH\WY\M-N\DGPS-31
REV.: R0
SCALE: 1:2000
SHEET: A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:
LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Saida Alam
REVIEWED	J.K.Das
DATE	March 2018

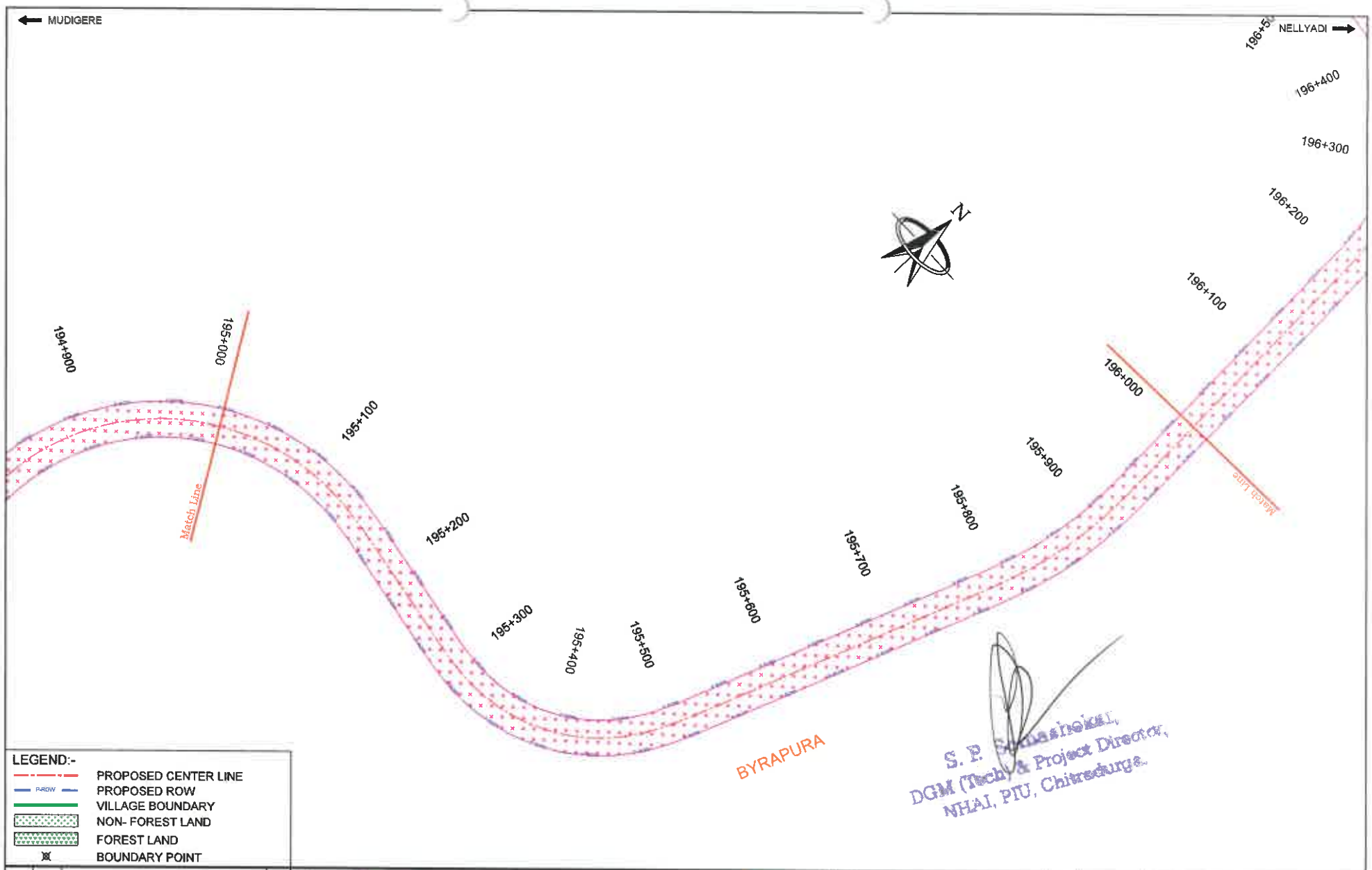
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 194+000 to Km. 195+000)

DRAWING No : 73587\LASA\I-RWY\M-MDGPS-32

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Saur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 195+000 to Km. 196+000)

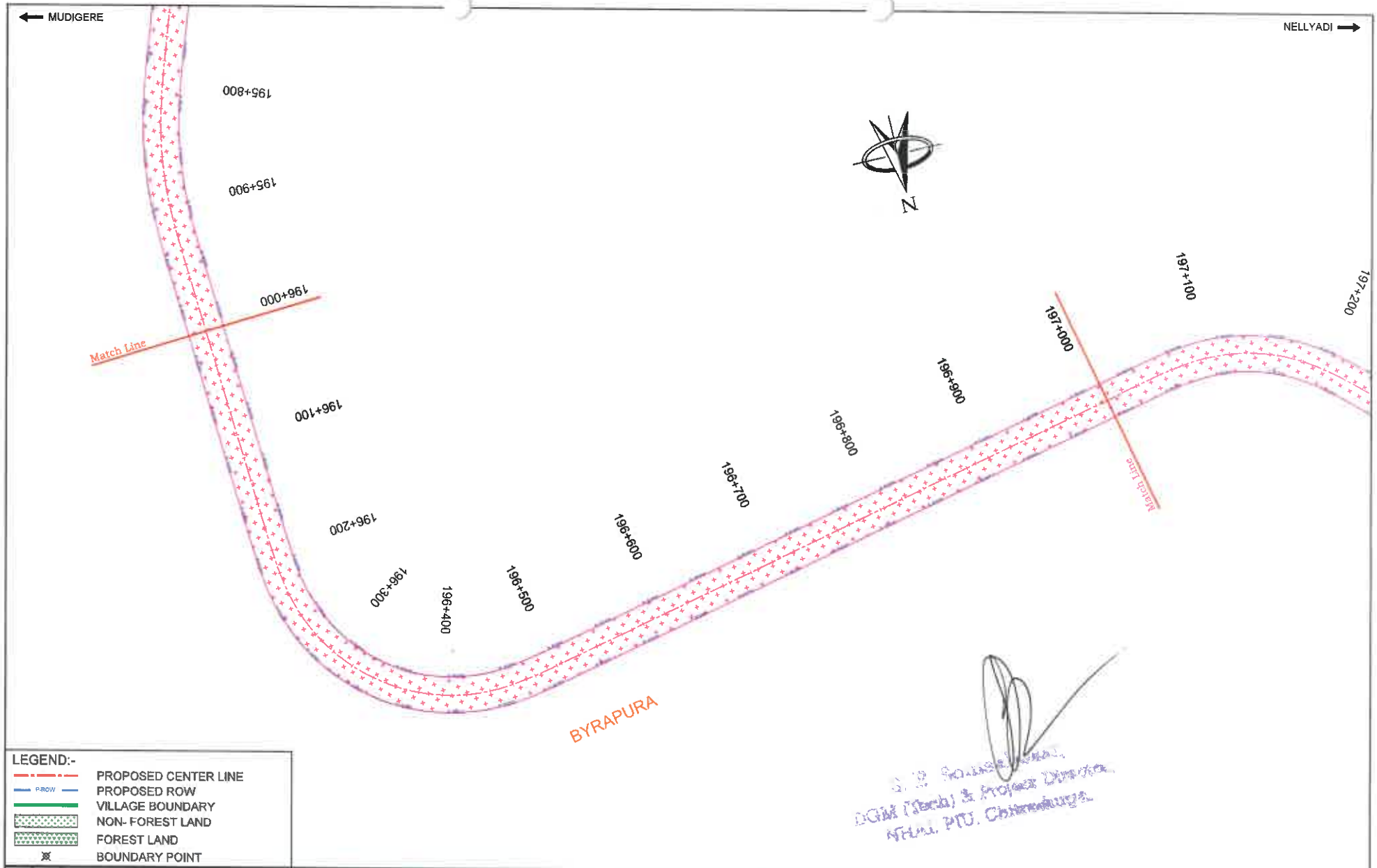
DRAWING No.: 73587\LASA\HWY\M-MDGPS-33

REV.: R0

SCALE: 1:2000

SHEET: A2

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE-
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 196+000 to Km. 197+000)

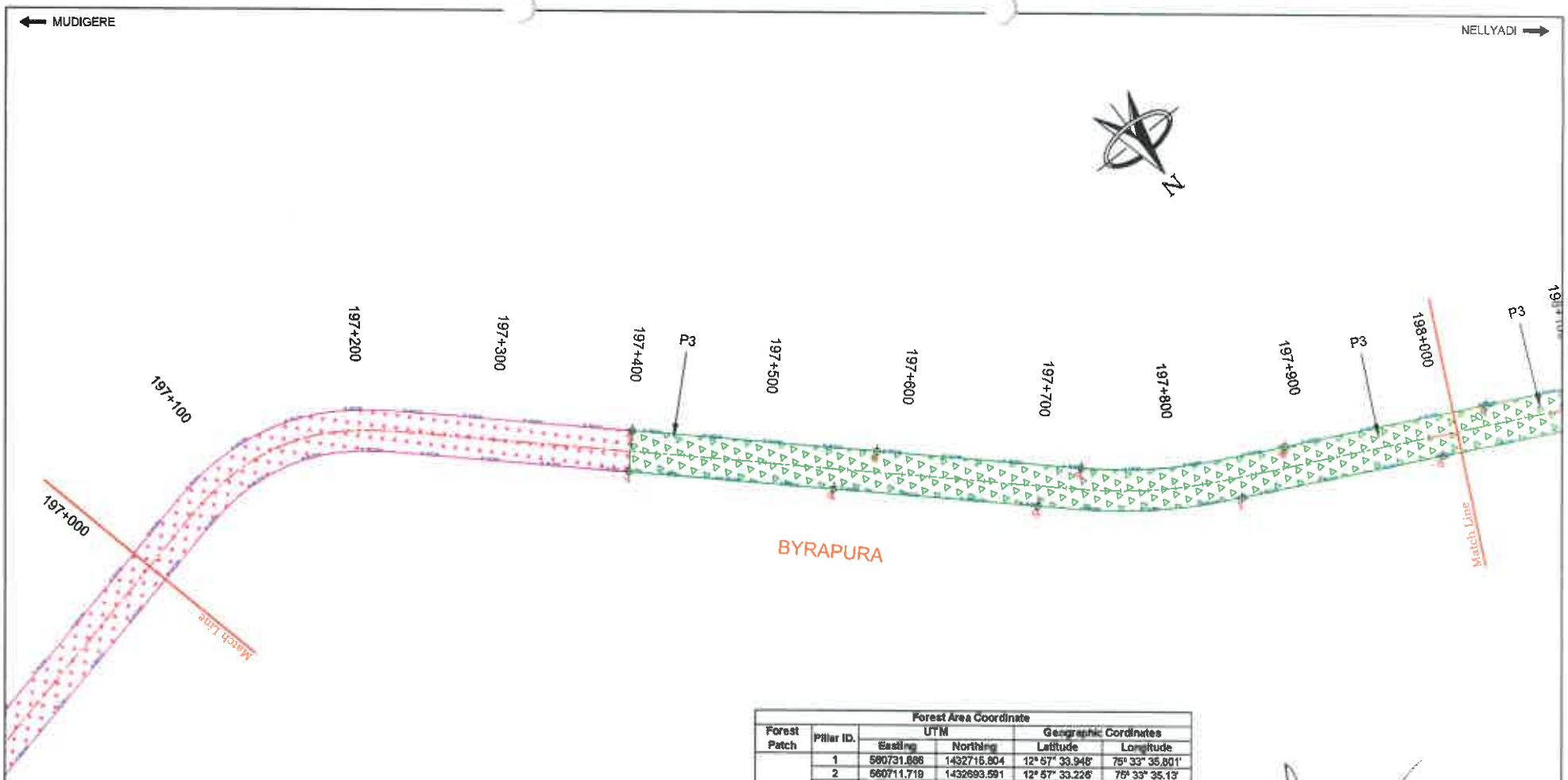
DRAWING No : 73587/LASAH-WYM-N/DGPS-34

REV. R0

SCALE : 1:2000

SHEET A2

S. P. Somashekhar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P3	1	560731.886	1432716.804	12° 57' 33.946'	75° 33' 35.801'
	2	560711.719	1432693.591	12° 57' 33.226'	75° 33' 35.13'
	3	560622.045	1432817.958	12° 57' 37.261'	75° 33' 32.163'
	4	560580.149	1432815.951	12° 57' 37.219'	75° 33' 30.772'
	5	560512.205	1432920.108	12° 57' 40.614'	75° 33' 28.524'
	6	560470.209	1432917.995	12° 57' 40.548'	75° 33' 27.13'
	7	560391.103	1433007.393	12° 57' 43.464'	75° 33' 24.511'
	8	560343.778	1432997.434	12° 57' 43.143'	75° 33' 22.94'
	9	560256.751	1433074.096	12° 57' 45.645'	75° 33' 20.057'

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-
- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

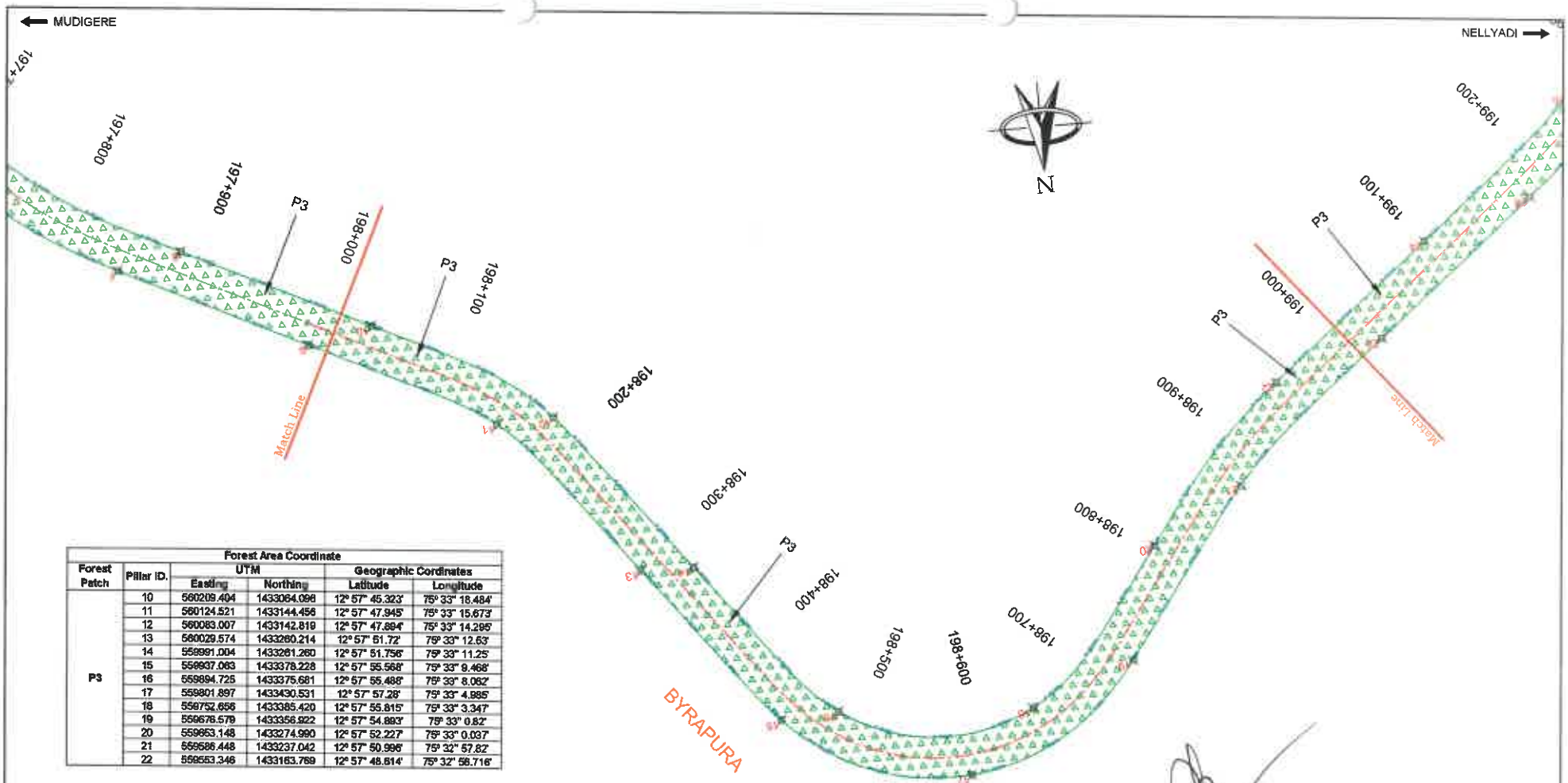
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 197+000 to Km. 198+000)

DRAWING No.: 73587/LASA/HWY/M-N/DGPS-35 REV. R0

SCALE: 1:2000 SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P3	10	560209.404	1433064.096	12° 57' 45.323'	75° 33' 18.484'
	11	560124.521	1433144.456	12° 57' 47.945'	75° 33' 15.673'
	12	560083.007	1433142.819	12° 57' 47.894'	75° 33' 14.295'
	13	560029.574	1433260.214	12° 57' 51.72'	75° 33' 12.53'
	14	559991.004	1433261.260	12° 57' 51.756'	75° 33' 11.25'
	15	559937.063	1433378.228	12° 57' 55.568'	75° 33' 9.468'
	16	559894.725	1433375.681	12° 57' 55.488'	75° 33' 8.062'
	17	559801.897	1433430.531	12° 57' 57.28'	75° 33' 4.985'
	18	559752.656	1433385.420	12° 57' 55.815'	75° 33' 3.347'
	19	559678.579	1433356.922	12° 57' 54.893'	75° 33' 0.82'
	20	559653.148	1433274.990	12° 57' 52.227'	75° 33' 0.037'
	21	559586.448	1433237.042	12° 57' 50.996'	75° 32' 57.82'
	22	559553.346	1433163.769	12° 57' 48.614'	75° 32' 56.716'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somasekhar
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

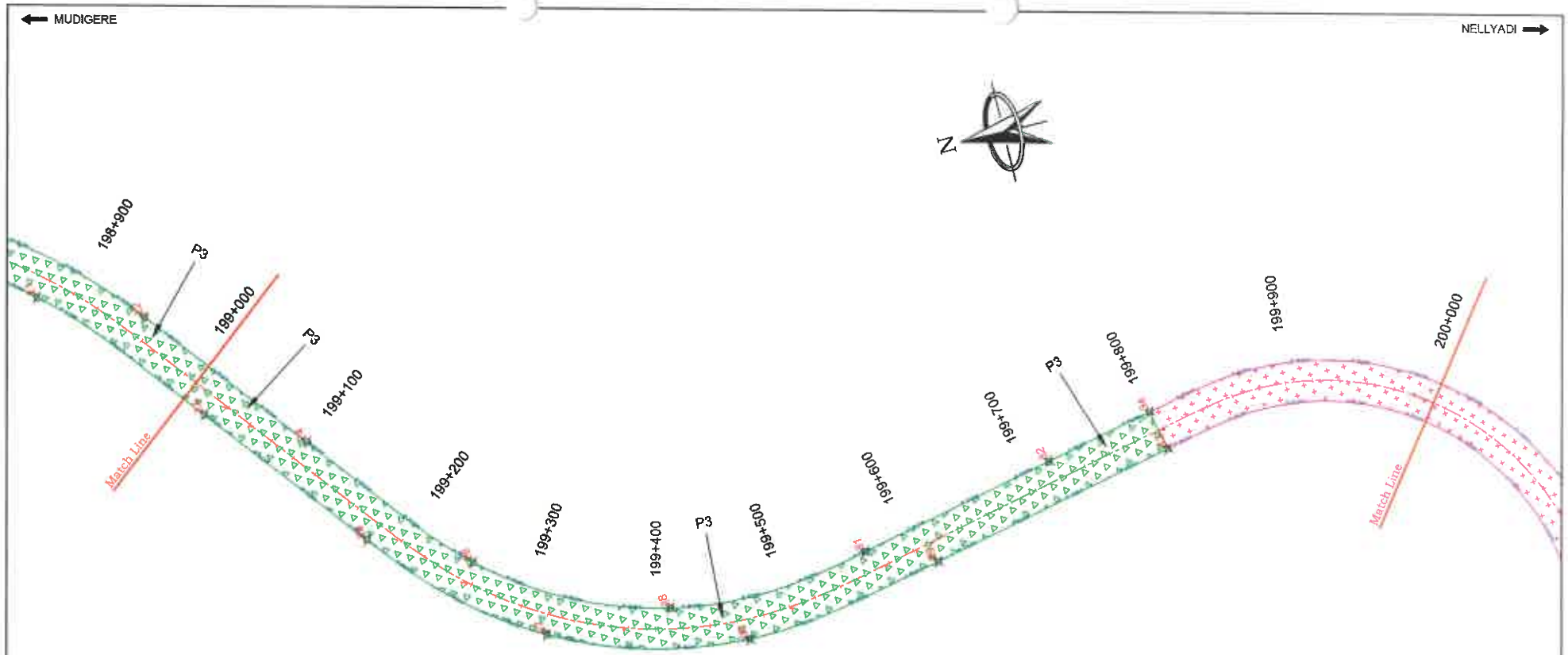
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sajda Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 196+000 to Km. 199+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-36 REV. R0

SCALE: 1:2000 SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P3	23	559473.766	1433138.439	12° 57" 47.795'	75° 32" 54.073'
	24	559436.237	1433070.039	12° 57" 45.571'	75° 32" 52.823'
	25	559356.602	1433044.777	12° 57" 44.754'	75° 32" 50.178'
	26	559322.134	1432972.919	12° 57" 42.417'	75° 32" 49.028'
	27	559267.703	1432933.487	12° 57" 41.138'	75° 32" 48.887'
	28	559255.129	1432840.647	12° 57" 38.116'	75° 32" 46.795'
	29	559241.660	1432842.091	12° 57" 31.853'	75° 32" 48.334'
	30	559219.210	1432789.974	12° 57" 36.469'	75° 32" 45.599'
	31	559261.381	1432692.087	12° 57" 33.28'	75° 32" 46.992'
	32	559293.606	1432545.590	12° 57" 28.509'	75° 32" 48.051'
	33	559281.990	1432458.771	12° 57" 25.683'	75° 32" 47.659'
	34	559311.289	1432465.216	12° 57" 25.891'	75° 32" 48.632'

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT :

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

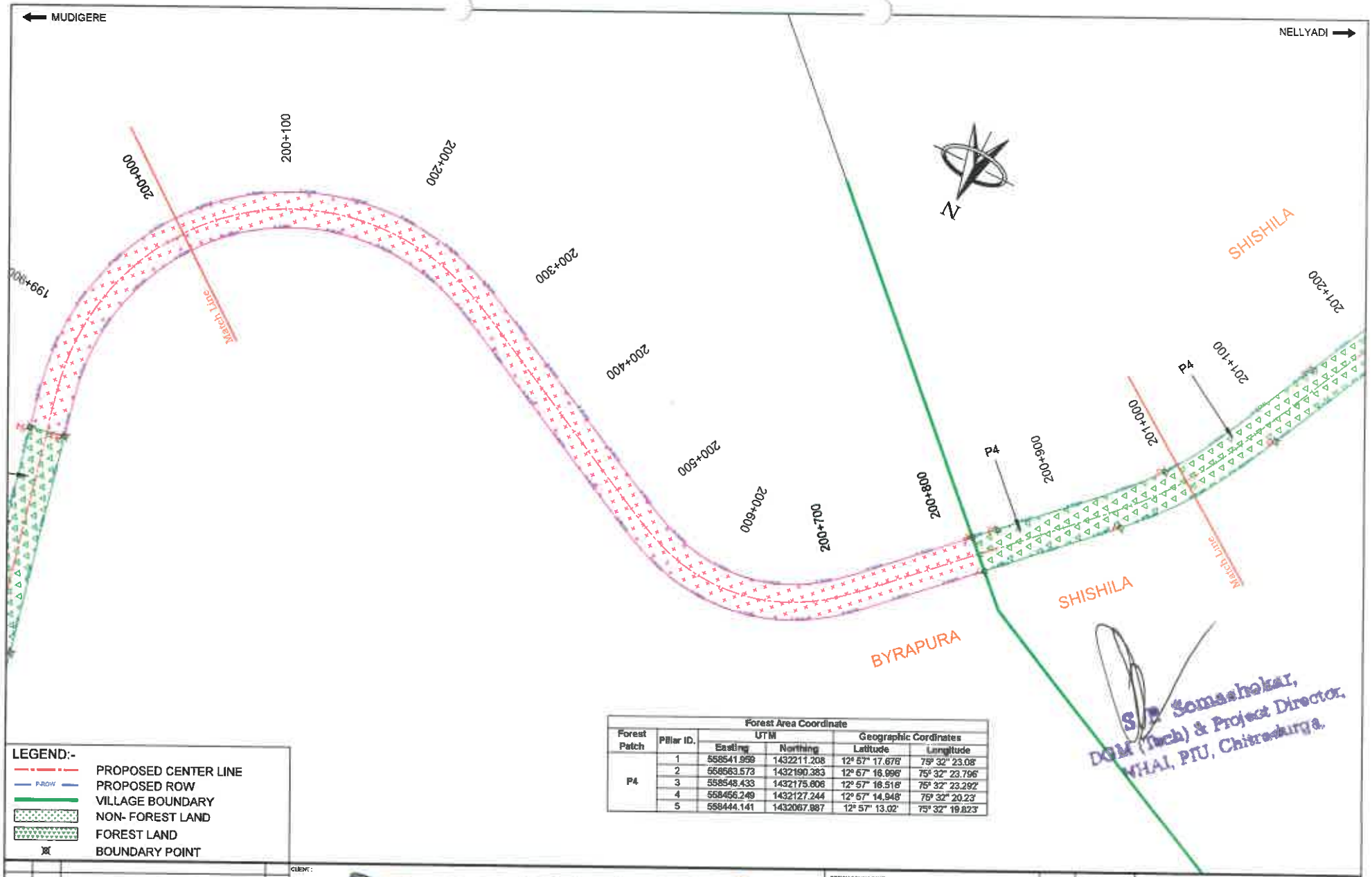
DRAWING TITLE-
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 199+000 to Km. 200+000)

DRAWING No : 73587/LASA/HWY/M-N/DGPS-37

REV. R0

SCALE : 1:2000

SHEET A2



Forest Patch	Pillar ID.	Forest Area Coordinate			
		UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P4	1	558541.959	1432211.208	12° 57" 17.676'	75° 32" 23.08'
	2	558563.573	1432190.383	12° 57" 16.996'	75° 32" 23.796'
	3	558548.433	1432175.606	12° 57" 16.516'	75° 32" 23.292'
	4	558456.249	1432127.244	12° 57" 14.948'	75° 32" 20.23'
	5	558444.141	1432067.887	12° 57" 13.02'	75° 32" 19.823'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. R. Somashekar,
DCM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY
REVISIONS			

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

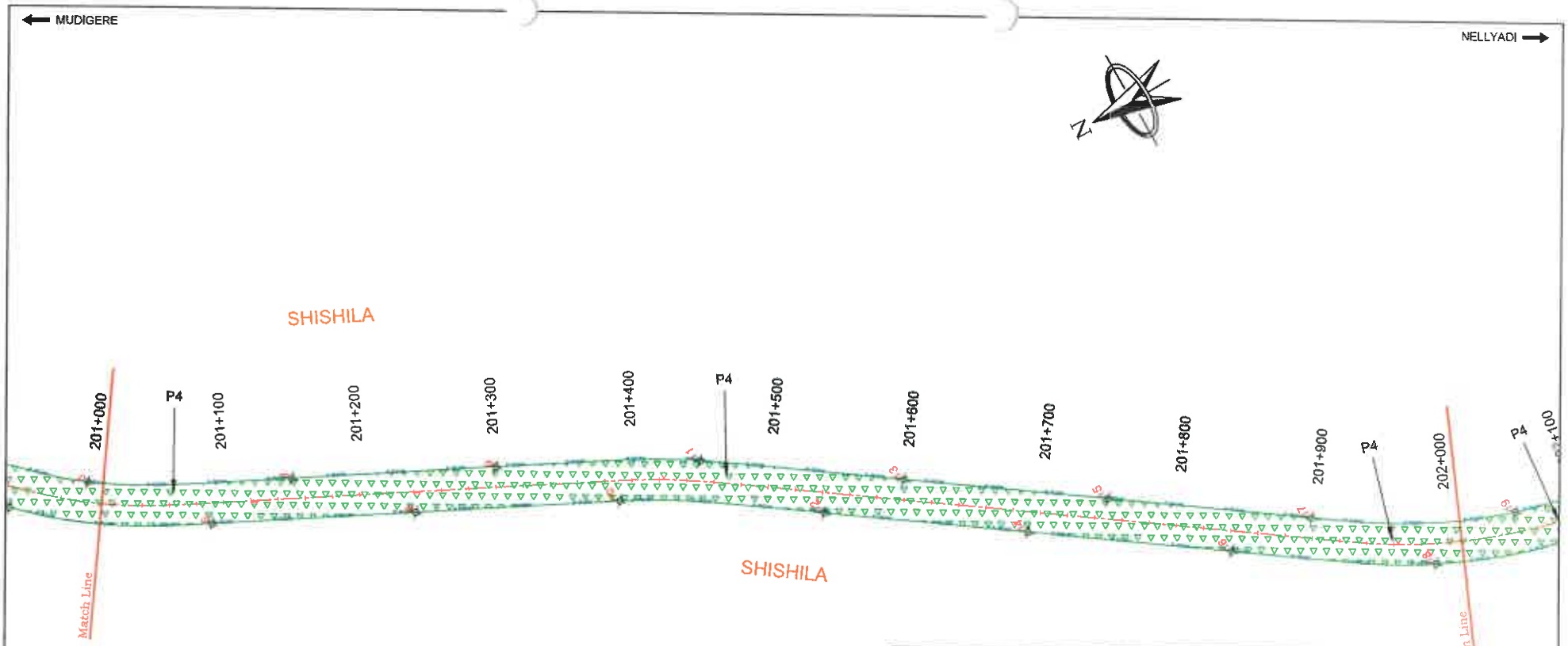
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohain Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2016

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 200+000 to Km. 201+000)

DRAWING No: 73587\LASA\HWY\M-NIDGPS-38 REV. R0

SCALE: 1:2000 SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P4	6	558372.761	1432003.672	12° 57" 10.931'	75° 32" 17.45'
	7	558373.045	1431936.157	12° 57" 8.734'	75° 32" 17.455'
	8	558306.674	1431869.015	12° 57" 6.553'	75° 32" 15.247'
	9	558306.958	1431801.500	12° 57" 4.355'	75° 32" 15.252'
	10	558240.560	1431734.371	12° 57" 2.174'	75° 32" 13.043'
	11	558237.582	1431668.621	12° 57" 0.034'	75° 32" 12.94'
	12	558159.630	1431608.269	12° 56" 58.075'	75° 32" 10.349'
	13	558152.407	1431545.152	12° 56" 56.021'	75° 32" 10.104'
	14	558074.221	1431484.959	12° 56" 54.066'	75° 32" 7.505'
	15	558068.998	1431421.842	12° 56" 52.012'	75° 32" 7.261'
	16	557988.813	1431361.848	12° 56" 50.058'	75° 32" 4.662'
	17	557981.590	1431298.532	12° 56" 48.004'	75° 32" 4.418'
	18	557907.524	1431235.778	12° 56" 45.966'	75° 32" 1.955'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar
DGM (Tech) & Project Director
NHAI, PIU, Chitradurga

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT :

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Serde Alam
REVIEWED	J.K.Das
DATE	March 2016

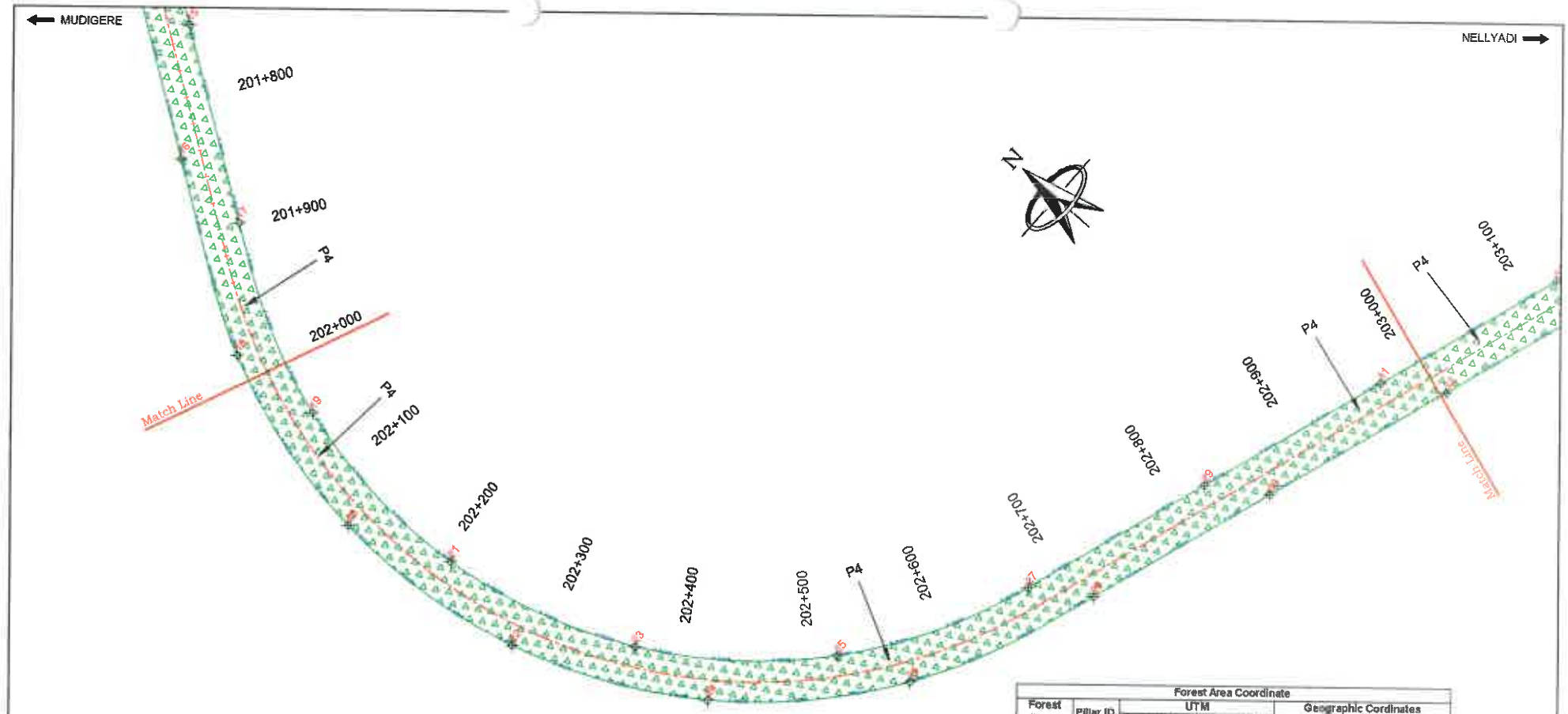
DRAWING TITLE:-
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 201+000 to Km. 202+000)

DRAWING No : 735871\LASA\HWY\M-NDGPS-39

REV. R0

SCALE : 1:2000

SHEET A2



SHISHILA

Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P4	19	557912.291	1431166.350	12° 56" 43.706'	75° 32" 2.109'
	20	557867.218	1431092.141	12° 56" 41.293'	75° 32" 0.608'
	21	557897.079	1431018.076	12° 56" 38.88'	75° 32" 1.594'
	22	557880.310	1430943.532	12° 56" 36.455'	75° 32" 1.032'
	23	557939.325	1430875.135	12° 56" 34.224'	75° 32" 2.986'
	24	557945.108	1430809.154	12° 56" 32.076'	75° 32" 3.173'
	25	558032.898	1430758.953	12° 56" 30.436'	75° 32" 6.077'
	26	558053.239	1430706.374	12° 56" 28.723'	75° 32" 6.755'
	27	558163.182	1430686.826	12° 56" 28.079'	75° 32" 10.402'
	28	558190.035	1430646.147	12° 56" 26.753'	75° 32" 11.291'
	29	558305.358	1430639.072	12° 56" 26.515'	75° 32" 15.118'
	30	558332.233	1430598.403	12° 56" 25.186'	75° 32" 16.007'
	31	558447.557	1430591.329	12° 56" 24.951'	75° 32" 19.834'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2016

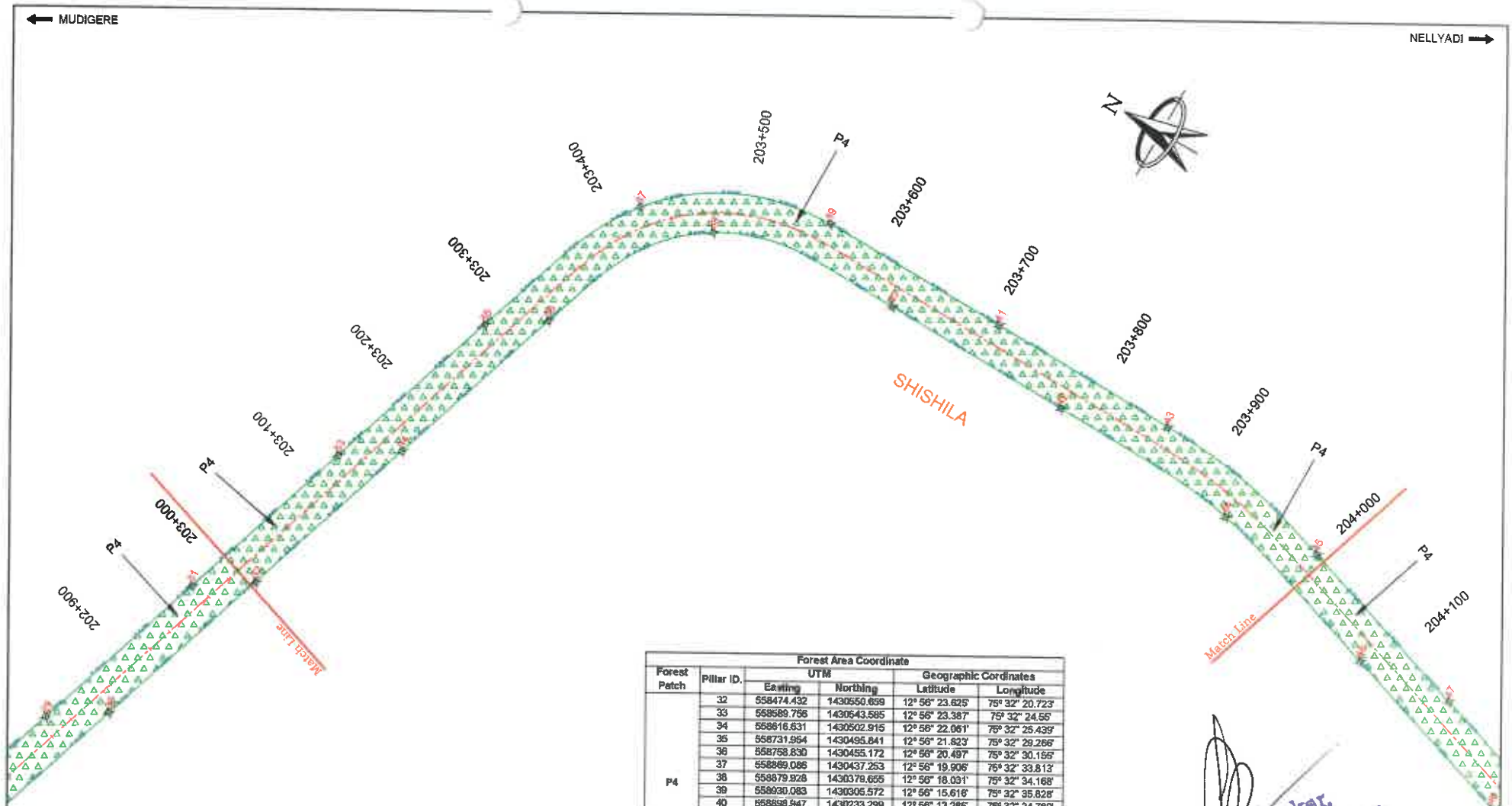
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 202+000 to Km. 203+000)

DRAWING No.: 735871LASA/HWY/M-N/DGPS-40

REV. R0

SCALE: 1:2000

SHEET A2



Forest Patch	Pillar ID.	UTM Easting	UTM Northing	Geographic Cordinates Latitude	Geographic Cordinates Longitude
P4	32	558474.432	1430550.659	12° 56" 23.625'	75° 32" 20.723'
	33	558589.756	1430543.585	12° 56" 23.387'	75° 32" 24.55'
	34	558616.631	1430502.915	12° 56" 22.061'	75° 32" 25.439'
	35	558731.954	1430495.841	12° 56" 21.823'	75° 32" 29.266'
	36	558758.830	1430455.172	12° 56" 20.497'	75° 32" 30.155'
	37	558869.086	1430437.253	12° 56" 19.906'	75° 32" 33.813'
	38	558879.928	1430379.655	12° 56" 18.031'	75° 32" 34.168'
	39	558930.083	1430305.572	12° 56" 15.616'	75° 32" 35.828'
	40	558898.947	1430233.299	12° 56" 13.285'	75° 32" 34.789'
	41	558927.146	1430165.609	12° 56" 10.734'	75° 32" 35.72'
	42	558895.456	1430083.340	12° 56" 8.384'	75° 32" 34.663'
	43	558923.617	1430005.650	12° 56" 5.853'	75° 32" 35.592'
	44	558886.331	1429933.832	12° 56" 3.518'	75° 32" 34.349'
	45	558895.837	1429859.015	12° 56" 1.082'	75° 32" 34.66'

Forest Area Coordinate

LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Sonawalkar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

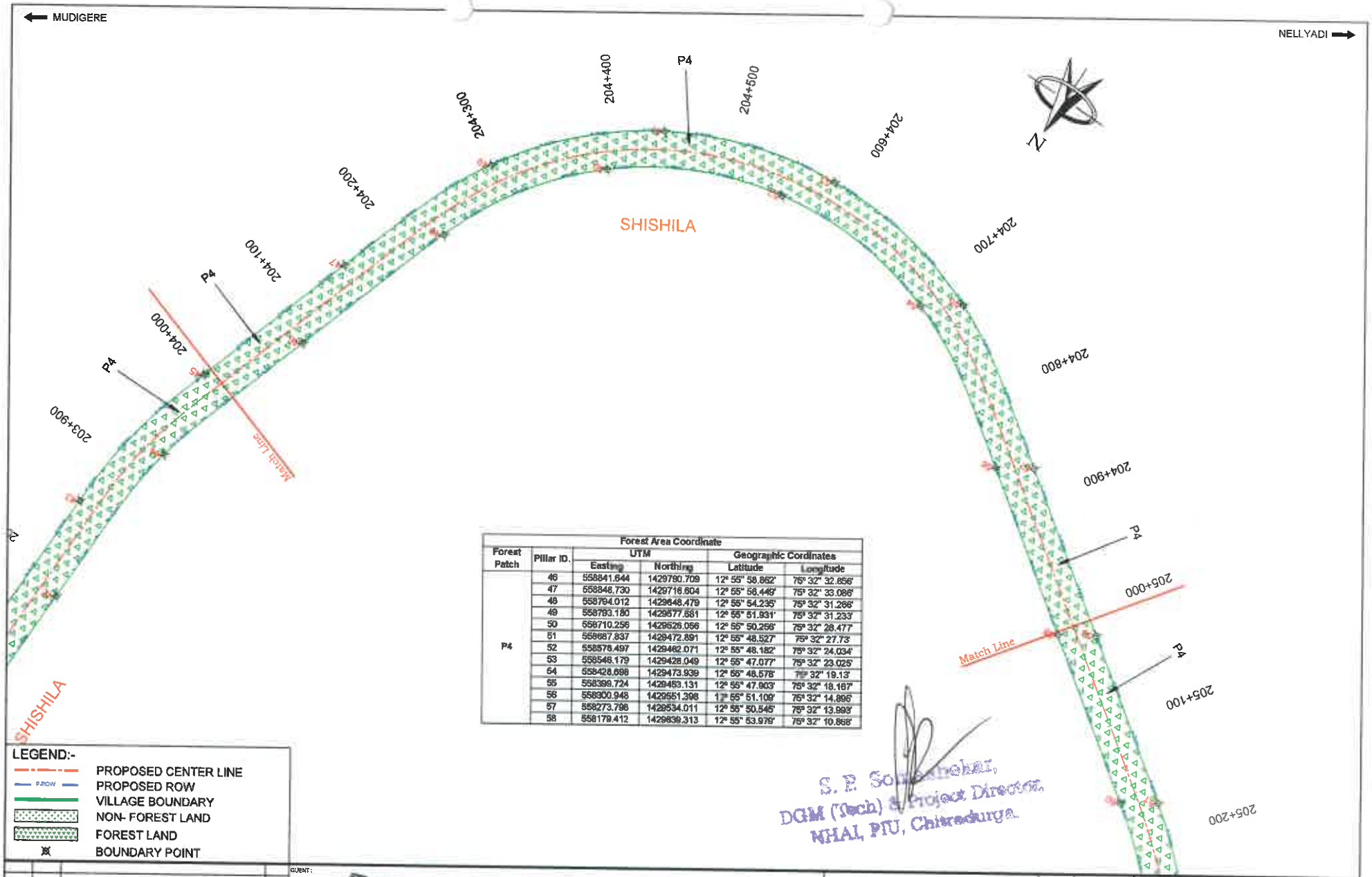
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1/E-27, Mohan Cooperative Industrial Estate, Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Bose
CHECKED	Sardo Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 203+000 to Km. 204+000)

DRAWING No: 73587\LASA\HWY\M-N\DGPS-41 — REV. R0

SCALE: 1:2000 — SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P4	46	558841.644	1429790.709	12° 55" 58.862'	75° 32" 32.656'
	47	558846.730	1429716.604	12° 55" 56.449'	75° 32" 33.086'
	48	558794.012	1429648.479	12° 55" 54.235'	75° 32" 31.266'
	49	558793.180	1429577.581	12° 55" 51.931'	75° 32" 31.233'
	50	558710.256	1429526.056	12° 55" 50.256'	75° 32" 28.477'
	51	558687.837	1429472.891	12° 55" 48.527'	75° 32" 27.73'
	52	558578.497	1429462.071	12° 55" 48.182'	75° 32" 24.034'
	53	558548.179	1429428.049	12° 55" 47.077'	75° 32" 23.025'
	54	558428.698	1429473.939	12° 55" 48.578'	75° 32" 19.13'
	55	558399.724	1429453.131	12° 55" 47.903'	75° 32" 18.167'
	56	558300.948	1429551.398	12° 55" 51.109'	75° 32" 14.896'
	57	558273.796	1429534.011	12° 55" 50.545'	75° 32" 13.993'
	58	558179.412	1429639.313	12° 55" 53.976'	75° 32" 10.868'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

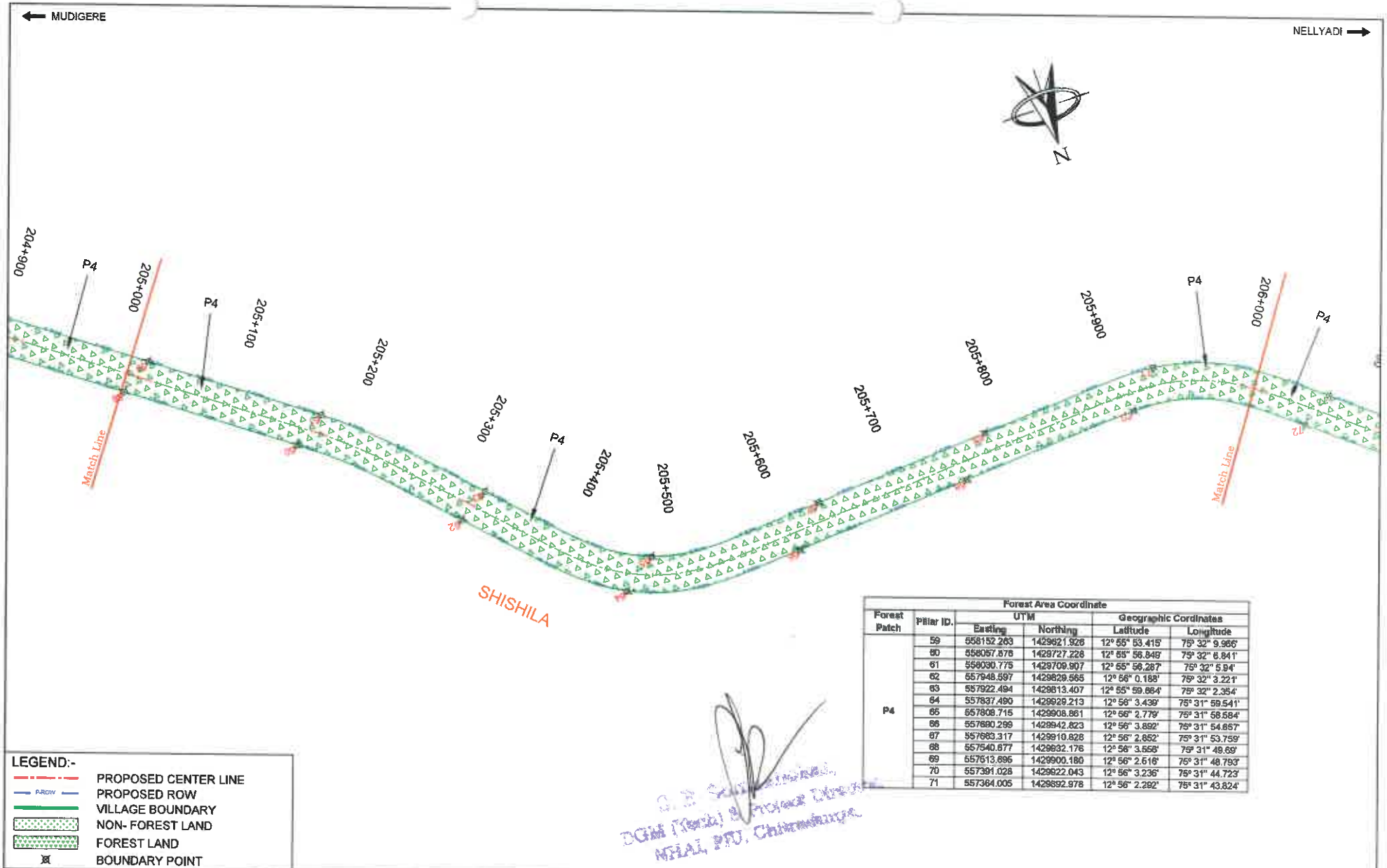
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 204+000 to Km. 205+000)

DRAWING No.: 73587\LASAH-WY\M-N\DGPS-42

REV. R0

SCALE: 1:2000

SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P4	59	558152.263	1429621.926	12° 55" 53.415'	75° 32" 9.966'
	60	558057.876	1429727.226	12° 55" 56.849'	75° 32" 6.841'
	61	558030.775	1429709.907	12° 55" 56.287'	75° 32" 5.94'
	62	557948.597	1429829.565	12° 56" 0.188'	75° 32" 3.221'
	63	557922.494	1429813.407	12° 55" 59.664'	75° 32" 2.354'
	64	557837.490	1429929.213	12° 56" 3.439'	75° 31" 59.541'
	65	557808.715	1429908.861	12° 56" 2.779'	75° 31" 58.584'
	66	557680.299	1429942.823	12° 56" 3.892'	75° 31" 54.857'
	67	557683.317	1429910.828	12° 56" 2.852'	75° 31" 53.759'
	68	557540.677	1429932.176	12° 56" 3.558'	75° 31" 49.69'
	69	557513.696	1429900.180	12° 56" 2.516'	75° 31" 48.793'
	70	557391.028	1429922.043	12° 56" 3.236'	75° 31" 44.723'
	71	557364.005	1429892.978	12° 56" 2.292'	75° 31" 43.824'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

G. R. Sa[illegible]
DGM (Tech) & Project Director
NHAI, PIU, Chikmagalur

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

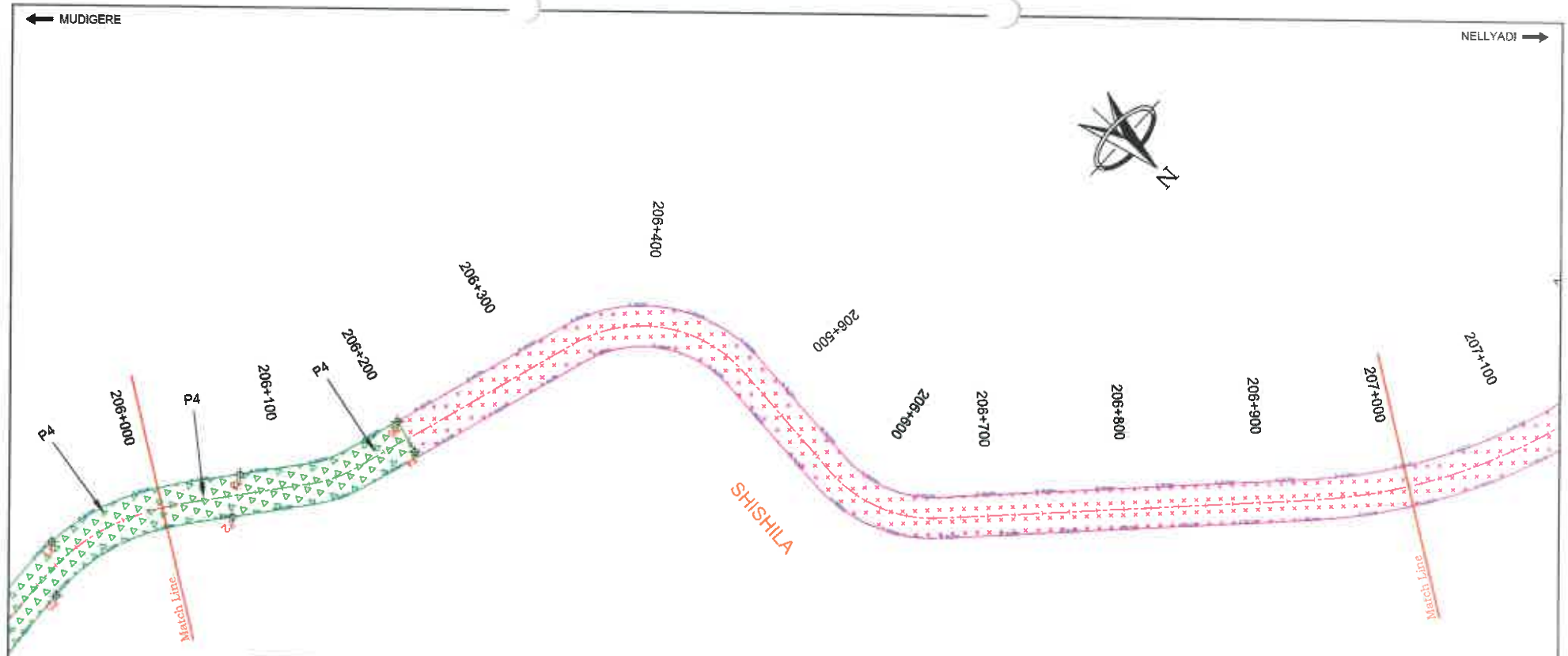
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 205+000 to Km. 206+000)

DRAWING No : 73587\LASA\HWY\M-N\DGPS-43

REV. R0

SCALE: 1:2000

SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P4	72	557260.288	1429978.341	12° 56" 5.077'	75° 31" 40.387'
	73	557233.436	1429961.377	12° 56" 4.527'	75° 31" 39.496'
	74	557133.712	1430044.782	12° 56" 7.249'	75° 31" 36.192'
	75	557125.842	1430020.298	12° 56" 6.452'	75° 31" 35.932'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

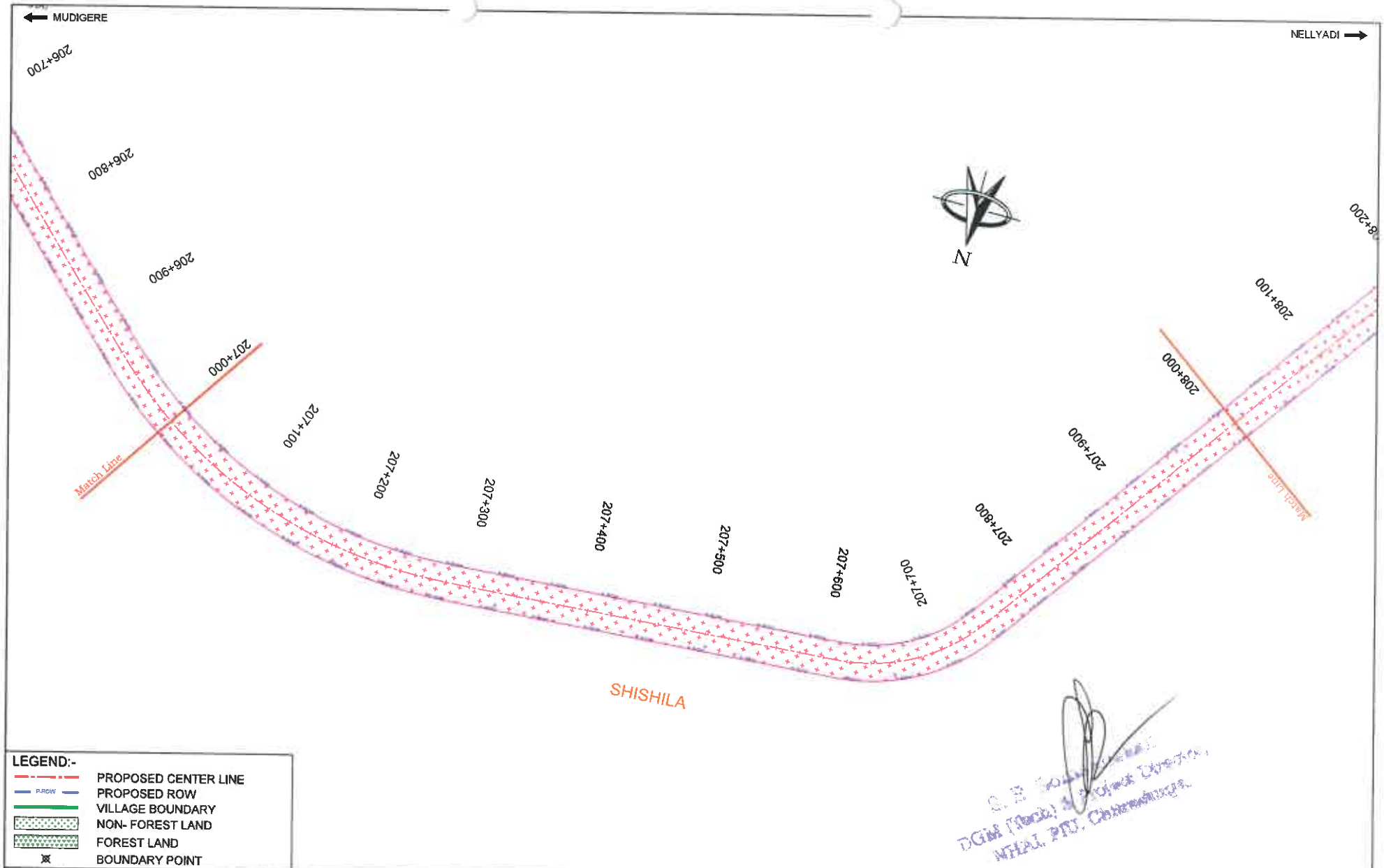
DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 206+000 to Km. 207+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-44 — REV. R0

SCALE: 1:2000 — SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Pelwal
DESIGN	Tanmoy Baur
CHECKED	Sarafe Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 207+000 to Km. 208+000)

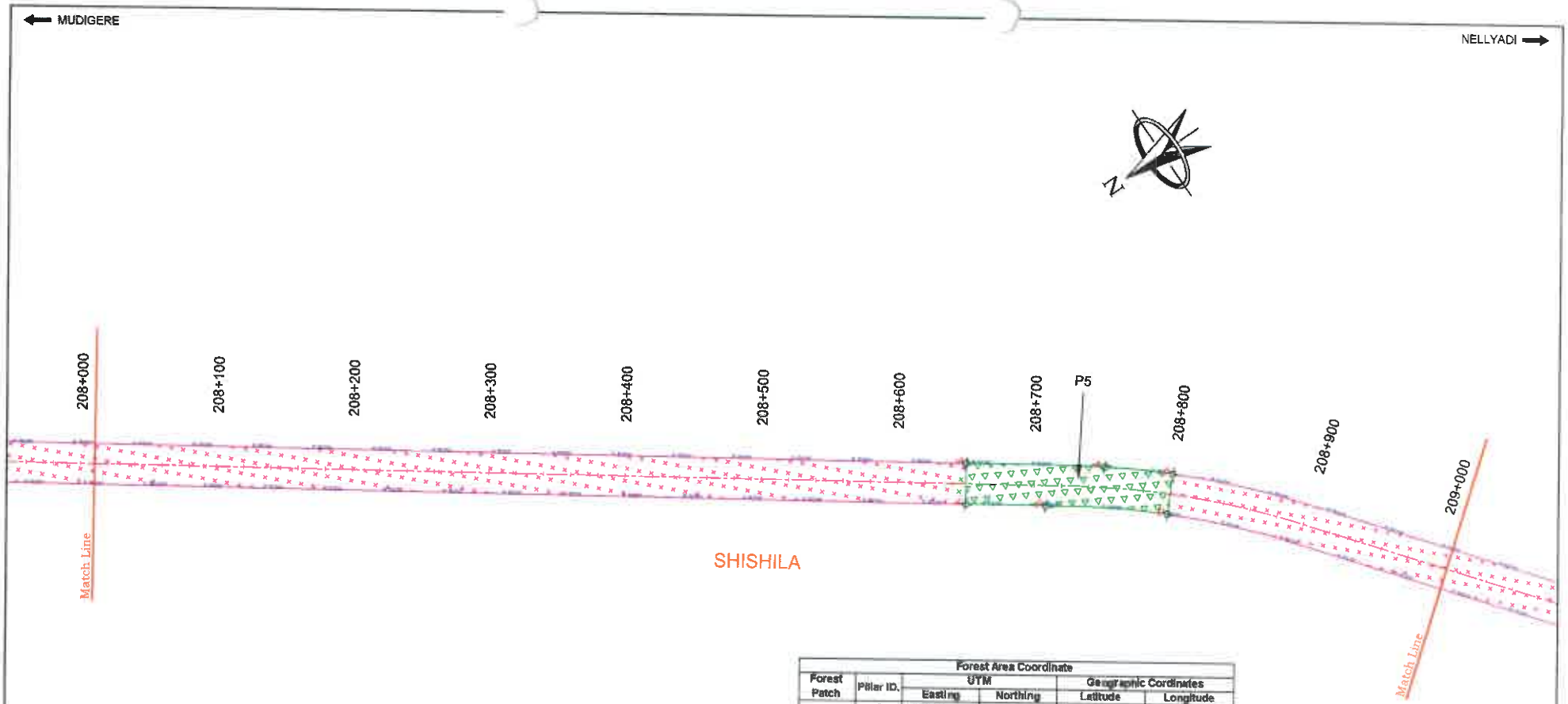
DRAWING No.: 73587\LASA\HWY\M-N\DGPS-45

REV. R0

SCALE: 1:2000

SHEET A2

S. R. [illegible]
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P5	1	555413.187	1429856.314	12° 56" 1.227'	75° 30" 39.079'
	2	555437.453	1429838.674	12° 56" 0.651'	75° 30" 39.883'
	3	555378.690	1429808.861	12° 55" 59.685'	75° 30" 37.931'
	4	555377.442	1429756.790	12° 55" 57.99'	75° 30" 37.886'
	5	555322.869	1429738.913	12° 55" 57.411'	75° 30" 36.074'
	6	555344.903	1429718.554	12° 55" 56.747'	75° 30" 36.804'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tahmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

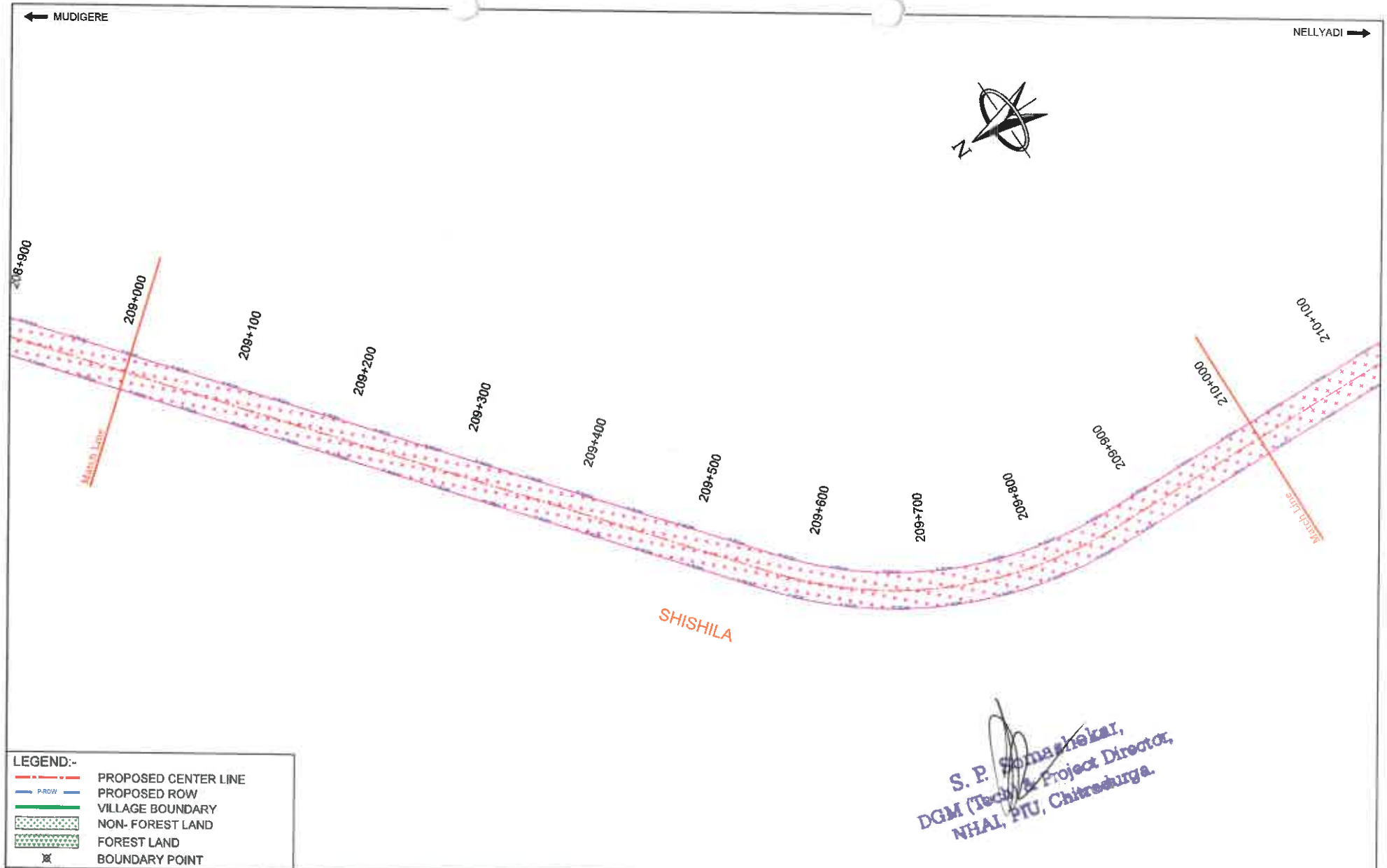
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 208+000 to Km. 209+000)

DRAWING No.: 73587\LASAH\WYIM-N\DGPS-46

REV.: R0

SCALE: 1:2000

SHEET: A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

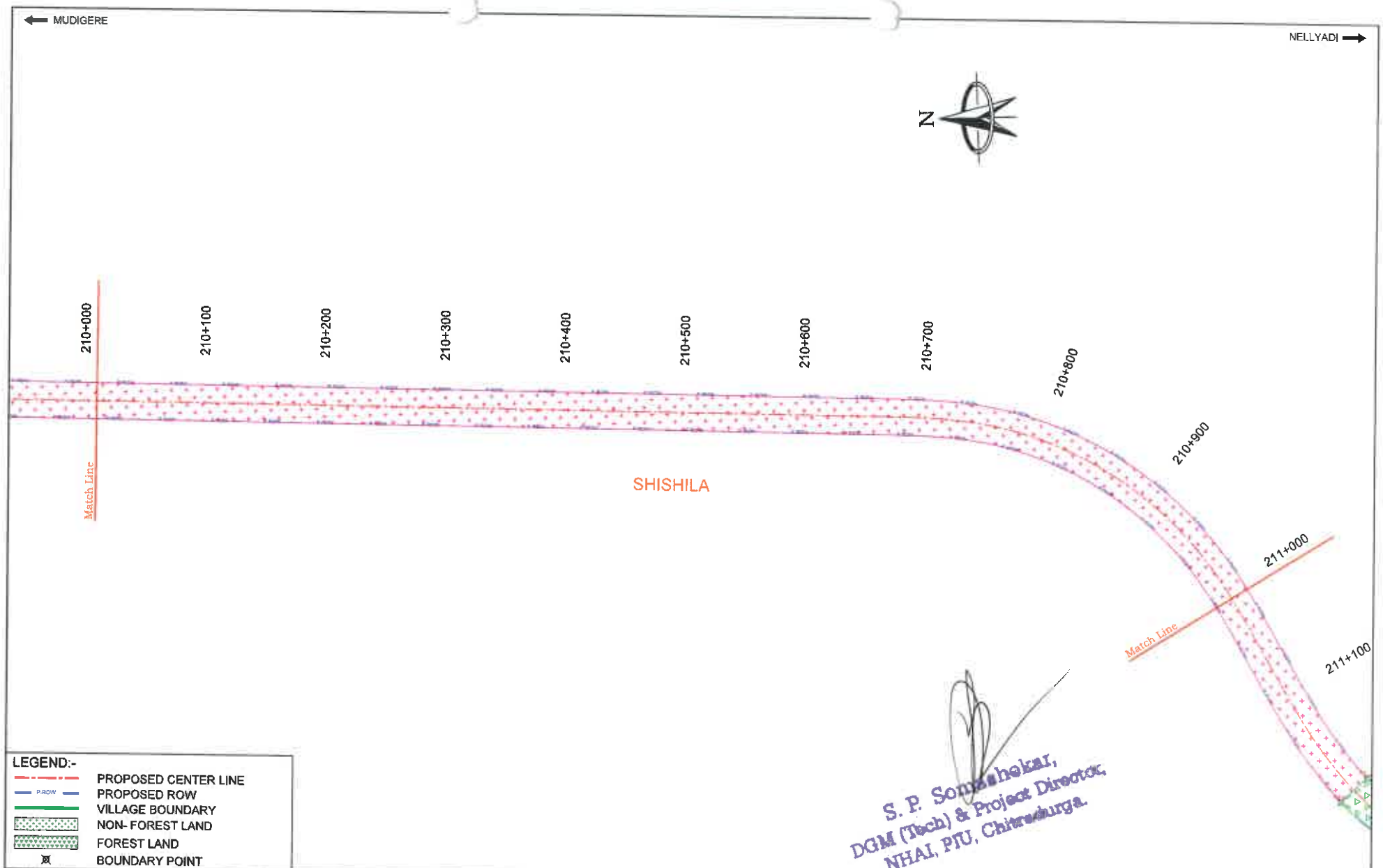
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 209+000 to Km. 210+000)

DRAWING No : 73587\LASA\HWY\M-N\DGPS-47

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

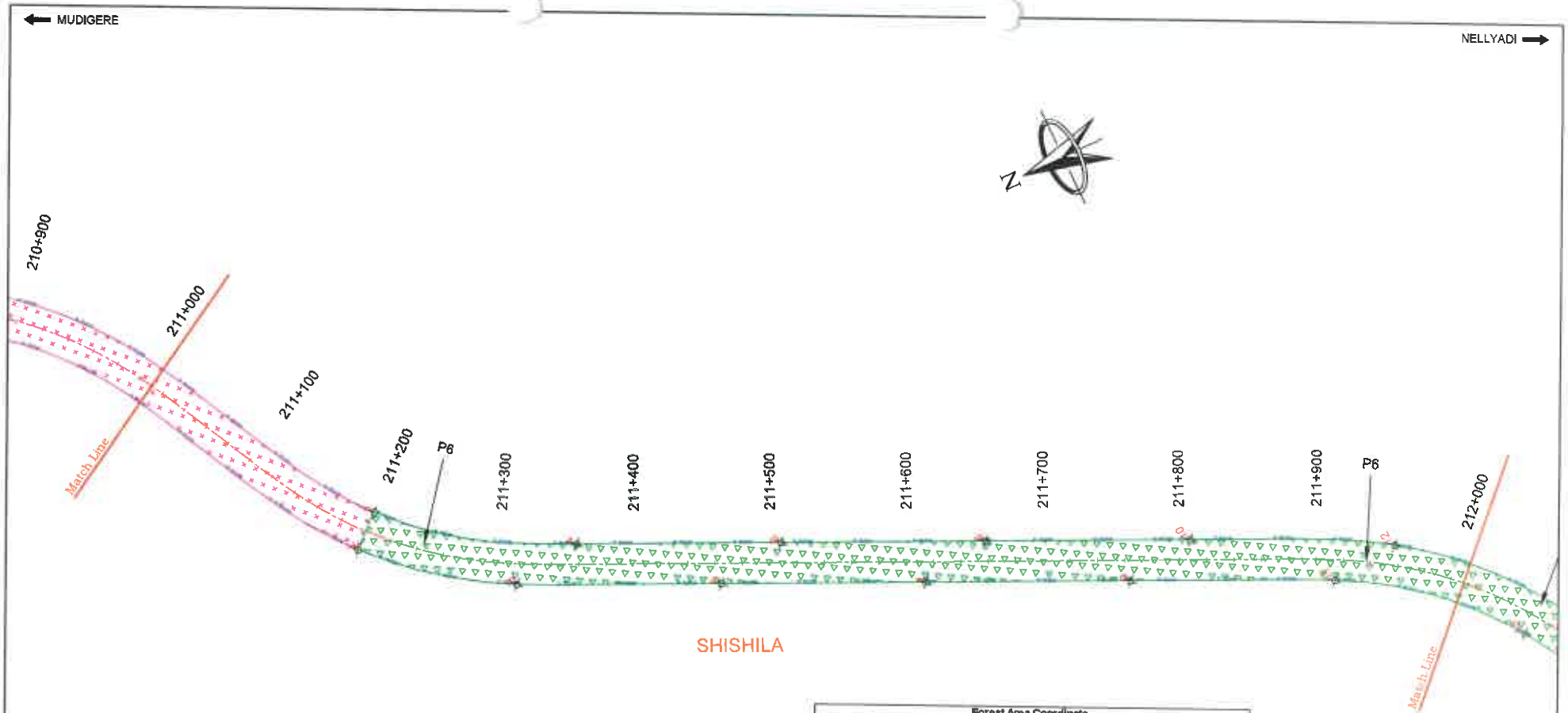
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 210+000 to Km. 211+000)

DRAWING No.: 735871\LASA\HWY\M-N\DGPS-48

REV.: R0

SCALE: 1:2000

SHEET: A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P6	1	554245.950	1427802.763	12° 54" 54.453'	75° 30" 0.208'
	2	554226.051	1427825.215	12° 54" 55.186'	75° 29" 59.549'
	3	554153.228	1427730.715	12° 54" 52.114'	75° 29" 57.127'
	4	554161.192	1427678.410	12° 54" 50.411'	75° 29" 57.388'
	5	554089.381	1427594.991	12° 54" 47.7'	75° 29" 54.999'
	6	554098.019	1427542.361	12° 54" 45.986'	75° 29" 55.282'
	7	554026.206	1427458.943	12° 54" 43.275'	75° 29" 52.894'
	8	554034.846	1427406.313	12° 54" 41.561'	75° 29" 53.177'
	9	553963.035	1427322.895	12° 54" 38.85'	75° 29" 50.789'
	10	553971.673	1427270.265	12° 54" 37.136'	75° 29" 51.072'
	11	553899.251	1427187.140	12° 54" 34.435'	75° 29" 48.664'
	12	553904.115	1427136.524	12° 54" 32.787'	75° 29" 48.822'

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Saur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

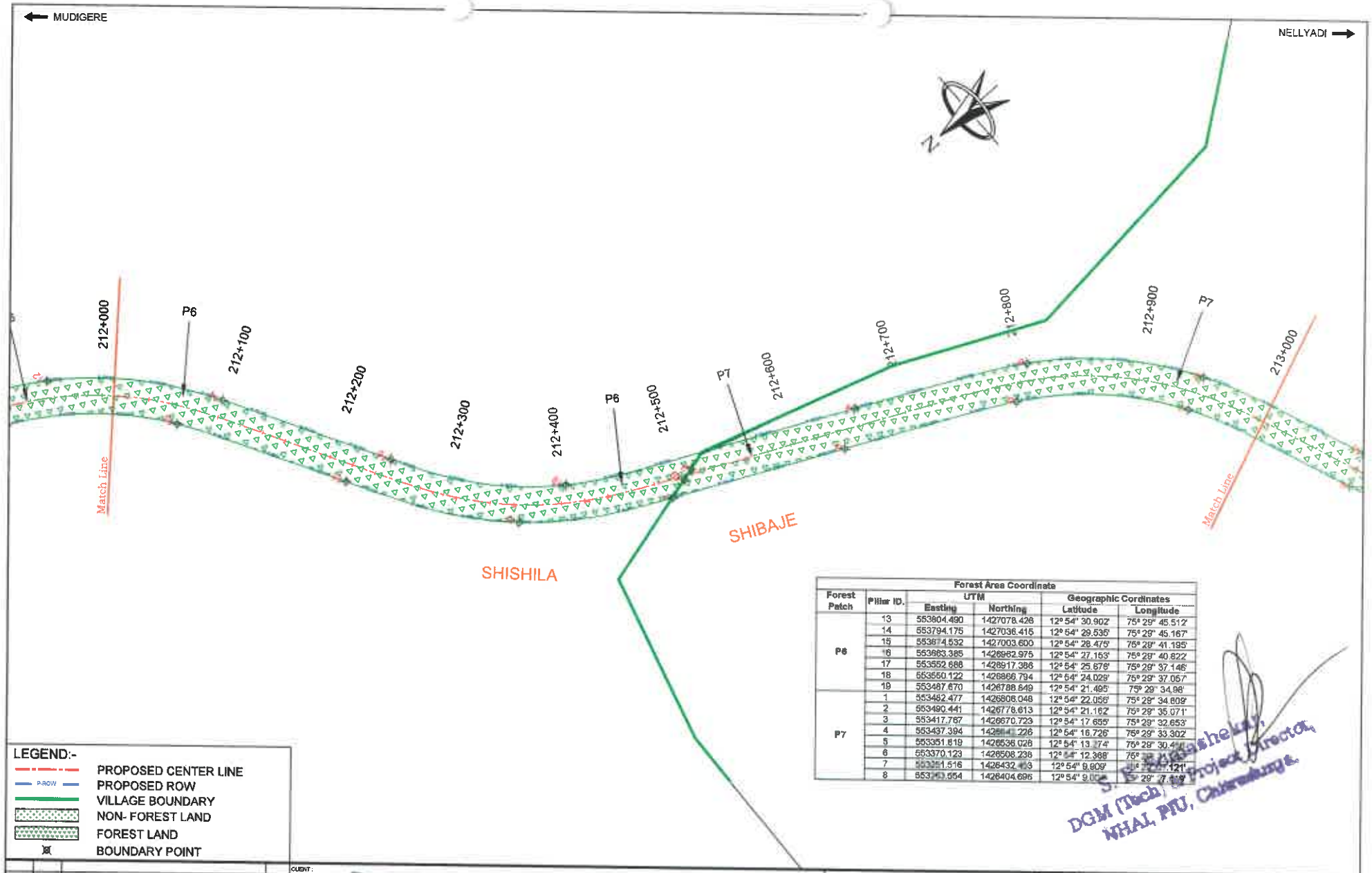
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 211+000 to Km. 212+000)

DRAWING No.: 73587\LASAHWY\M-N\DGPS-49

REV. R0

SCALE: 1:2000

SHEET A2



Forest Patch	Pillar ID.	UTM Easting	UTM Northing	Geographic Cordinates Latitude	Geographic Cordinates Longitude
P6	13	553804.490	1427078.426	12° 54' 30.902'	75° 29' 45.512'
	14	553794.175	1427036.415	12° 54' 29.535'	75° 29' 45.167'
	15	553674.532	1427003.600	12° 54' 28.475'	75° 29' 41.195'
	16	553663.385	1426962.975	12° 54' 27.153'	75° 29' 40.822'
	17	553552.688	1426917.386	12° 54' 25.676'	75° 29' 37.146'
	18	553550.122	1426866.794	12° 54' 24.029'	75° 29' 37.057'
	19	553487.670	1426788.849	12° 54' 21.495'	75° 29' 34.98'
P7	1	553482.477	1426808.048	12° 54' 22.055'	75° 29' 34.809'
	2	553490.441	1426778.613	12° 54' 21.162'	75° 29' 35.071'
	3	553417.767	1426670.723	12° 54' 17.655'	75° 29' 32.653'
	4	553437.394	1426[illegible].226	12° 54' 16.726'	75° 29' 33.302'
	5	553351.819	1426536.026	12° 54' 13.[illegible]74'	75° 29' 30.4[illegible]
	6	553370.123	1426508.238	12° 54' 12.368'	75° [illegible]
	7	553351.516	1426432.[illegible]3	12° 54' 9.809'	[illegible].121'
	8	553[illegible]3.554	1426404.696	12° 54' 9.0[illegible]	[illegible] 29' 7.1[illegible]

Forest Area Coordinate

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. [illegible] Bhaskhelay,
DGM (Tech), Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sardo Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 212+000 to Km. 213+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-50

REV. R0

SCALE: 1:2000

SHEET A2

Forest Patch	Pillar ID.	Forest Area Coordinate			
		UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P7	9	553113.963	1426373.073	12° 54" 7.984'	75° 29" 22.553'
	10	553125.886	1426345.524	12° 54" 7.087'	75° 29" 22.947'
	11	552975.558	1426315.448	12° 54" 6.117'	75° 29" 17.956'
	12	552987.529	1426287.809	12° 54" 5.216'	75° 29" 18.352'
	13	552865.018	1426216.159	12° 54" 2.892'	75° 29" 14.282'
	14	552882.668	1426188.326	12° 54" 1.984'	75° 29" 14.866'
	15	552796.922	1426082.687	12° 53" 58.551'	75° 29" 12.014'
	16	552816.658	1426054.138	12° 53" 57.62'	75° 29" 12.667'
	17	552733.156	1425946.915	12° 53" 54.135'	75° 29" 9.889'
	18	552752.876	1425918.374	12° 53" 53.205'	75° 29" 10.542'
	19	552654.481	1425825.393	12° 53" 50.184'	75° 29" 7.271'
	20	552667.428	1425796.464	12° 53" 49.241'	75° 29" 7.699'
	21	552524.841	1425753.093	12° 53" 47.838'	75° 29" 2.965'
	22	552536.821	1425725.377	12° 53" 46.935'	75° 29" 3.36'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravinder Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 213+000 to Km. 214+000)

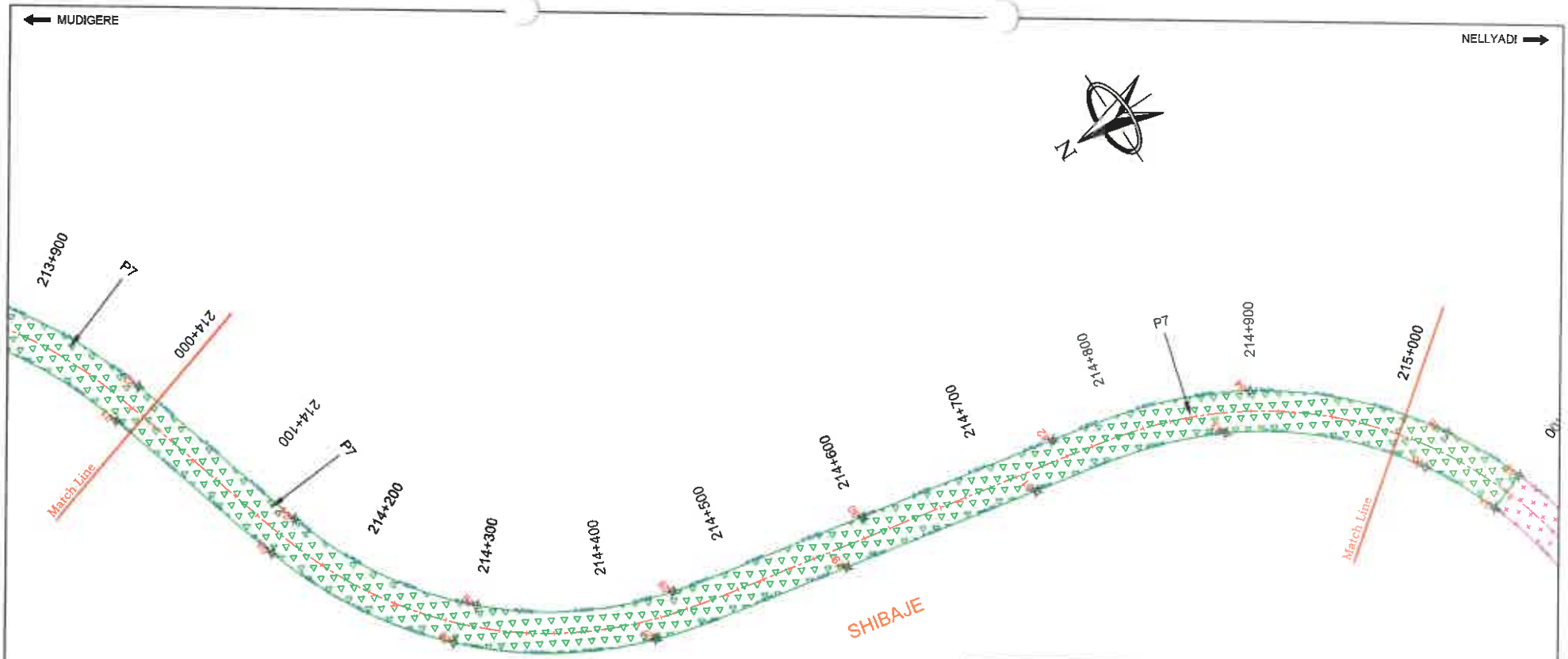
DRAWING No : 73587/LASAI/HWY/M-N/DGPS-51

REV. R0

SCALE : 1:2000

SHEET A2

DGM (Tech) & Project Director
NHAI, PIU, Chikmagalur



Forest Patch	Pillar ID.	Forest Area Coordinate			
		UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P7	23	552380.628	1425711.848	12° 53' 46.505'	75° 28" 58.177'
	24	552392.593	1425684.178	12° 53" 45.603'	75° 28" 58.572'
	25	552252.052	1425637.256	12° 53" 44.084'	75° 28" 53.906'
	26	552265.227	1425608.091	12° 53" 43.134'	75° 28" 54.341'
	27	552171.761	1425512.231	12° 53" 40.019'	75° 28" 51.234'
	28	552194.018	1425482.715	12° 53" 39.057'	75° 28" 51.97'
	29	552138.083	1425366.156	12° 53" 35.266'	75° 28" 50.107'
	30	552162.497	1425336.083	12° 53" 34.286'	75° 28" 50.915'
	31	552107.697	1425219.266	12° 53" 30.486'	75° 28" 49.09'
	32	552132.111	1425189.193	12° 53" 29.506'	75° 28" 49.898'
	33	552066.122	1425080.204	12° 53" 25.962'	75° 28" 47.701'
	34	552082.501	1425048.625	12° 53" 24.933'	75° 28" 48.243'
	35	551964.464	1424972.264	12° 53" 22.454'	75° 28" 44.321'
	36	551976.514	1424944.486	12° 53" 21.549'	75° 28" 44.72'
	37	551911.354	1424946.700	12° 53" 21.625'	75° 28" [illegible]58'
	38	551921.500	1424818.468	12° 53" 20.706'	75° [illegible]

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Saur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2016

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 214+000 to Km. 215+000)

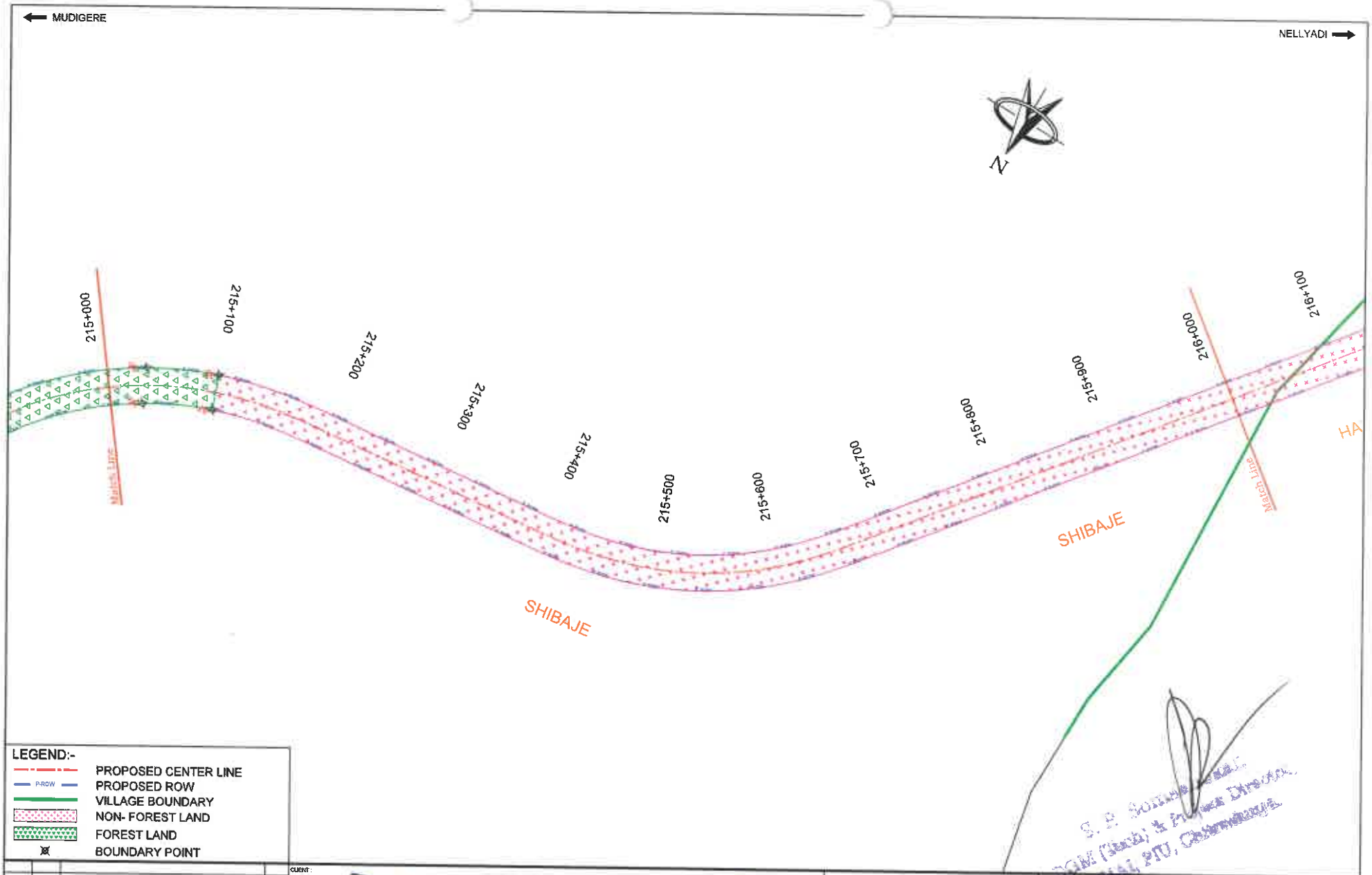
DRAWING No: 73587\LASA\HWY\M-NDGPS-52

REV. R0

SCALE: 1:2000

SHEET A2

Somashekar
DGM (Tech) & Project Director
NHAI, PIU, Chitradurga



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ra[illegible] Patwal
DESIGN	Tanmoy Baur
CHECKED	Sardo Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 215+000 to Km. 216+000)

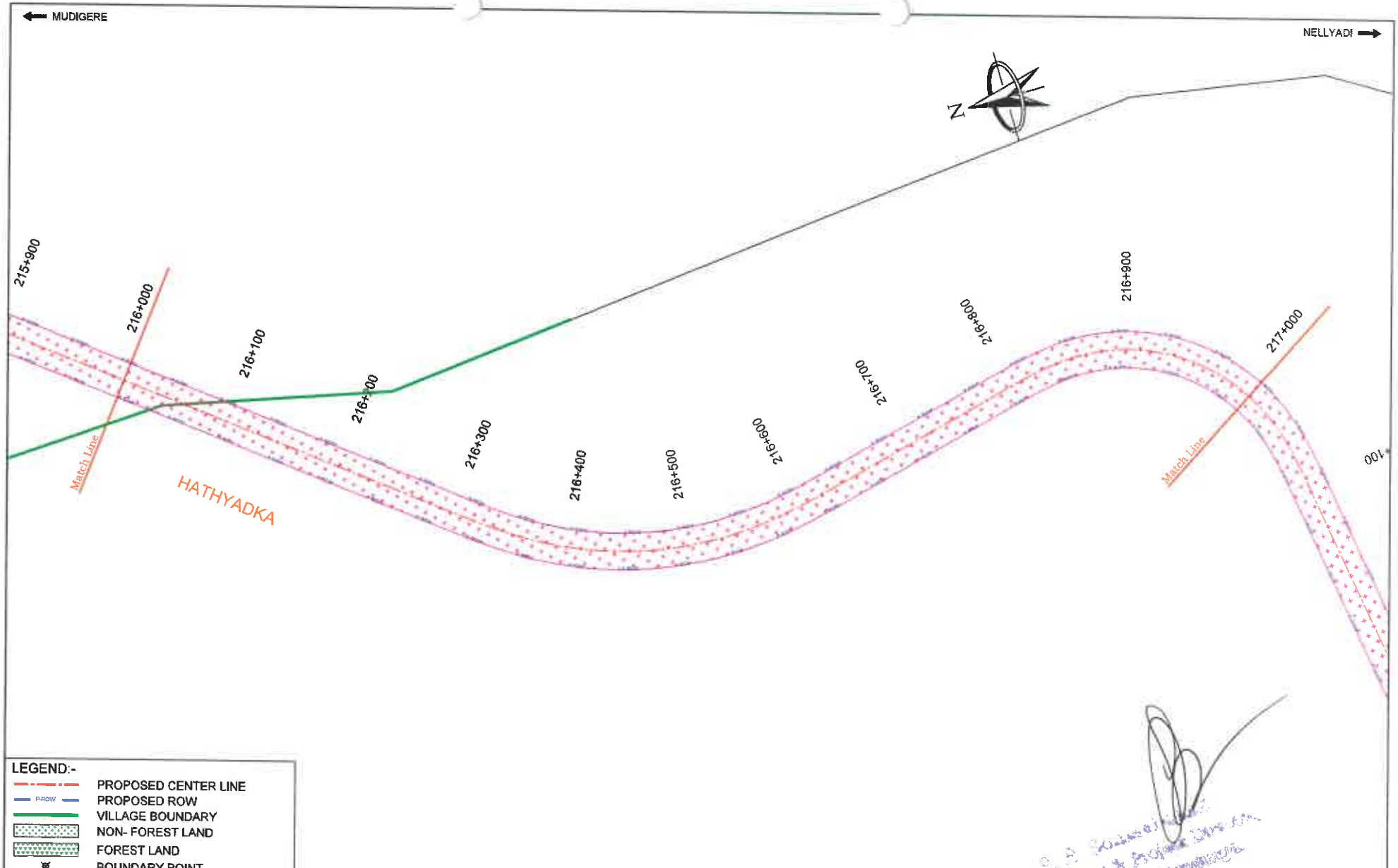
DRAWING No.: 73587\LASA\HWY\M-N\DGPS-53

REV.: R0

SCALE: 1:2000

SHEET: A2

S. R. Sontakke [illegible]
DGM (Tech), & Project Director,
ZHAL PIU, Chitradurga



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

	Sarwee Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarpie Alam
REVIEWED	J.K.Das
DATE	March 2018

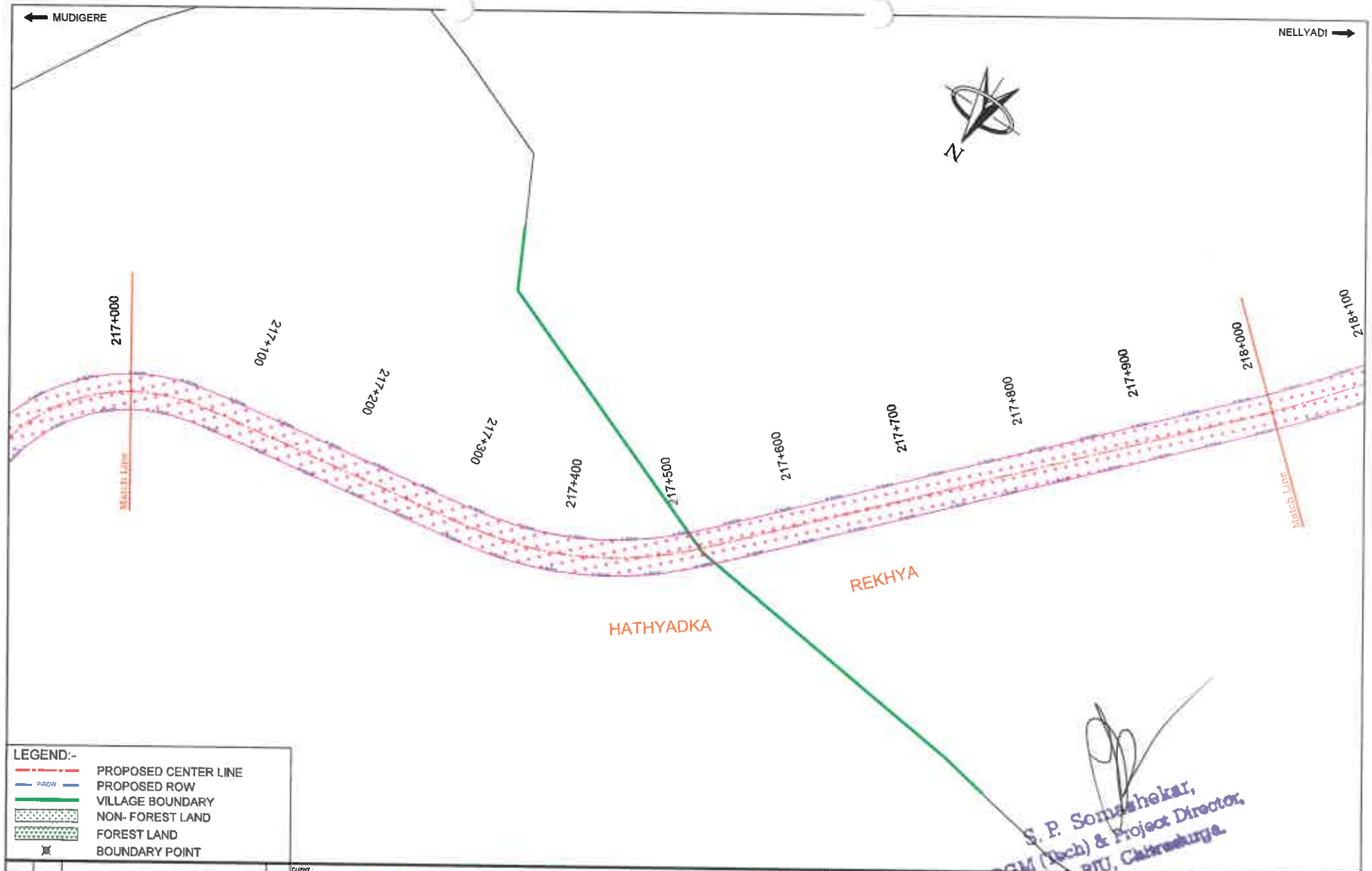
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 216+000 to Km. 217+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-54

REV. R0

SCALE: 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT :

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

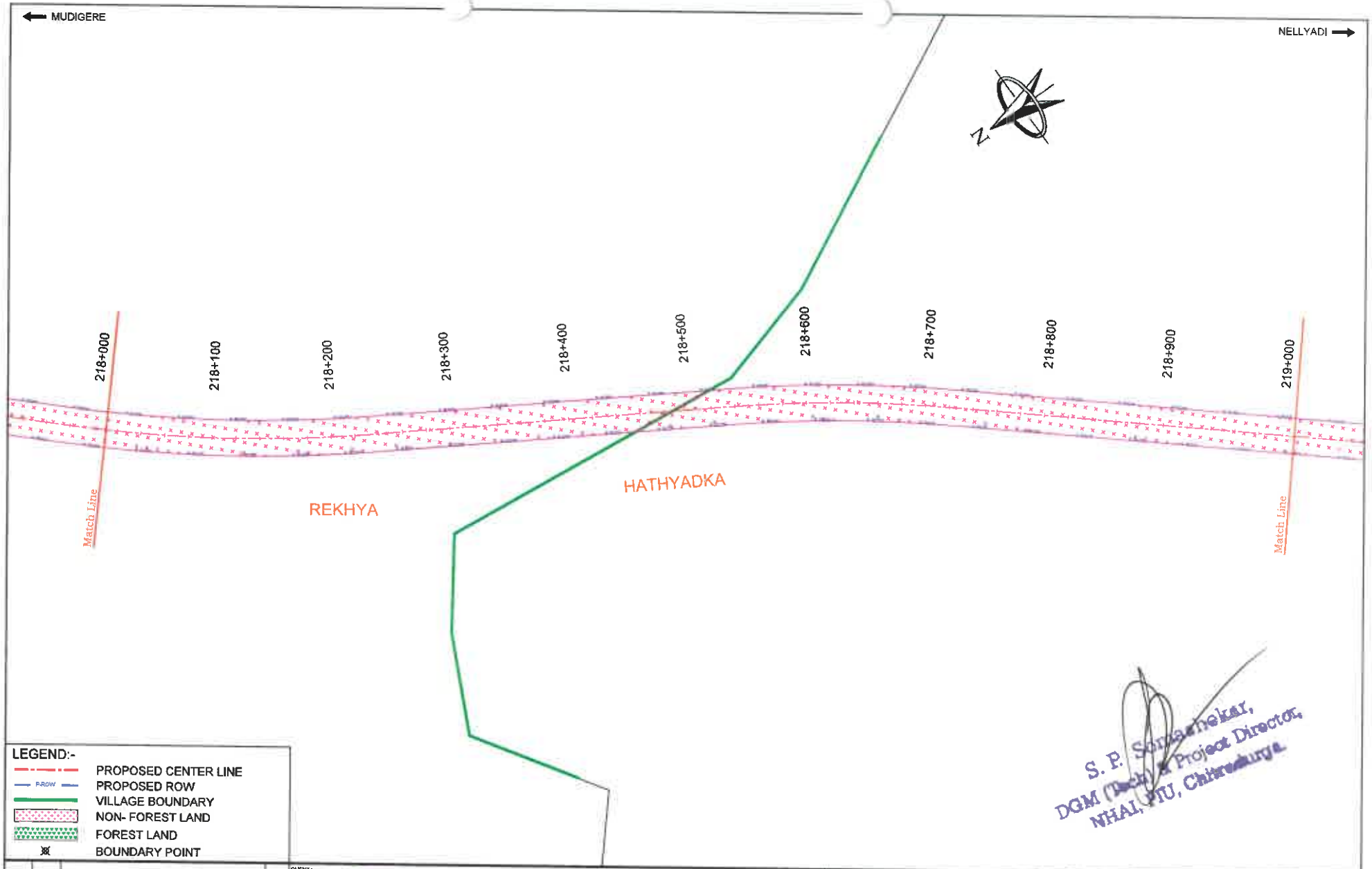
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 217+000 to Km. 218+000)

DRAWING No : 73597\LASAHWY\M-N\DGPS-55

REV. R0

SCALE : 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 218+000 to Km. 219+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-56

REV. R0

SCALE: 1:2000

SHEET A2

Forest Area Coordinate					
Forest Patch	Pillar ID.	LTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P8	1	549187.786	1421927.836	12° 51' 43.513'	75° 27' 12.008'
	2	549210.820	1421908.376	12° 51' 42.878'	75° 27' 12.764'
	3	549134.358	1421865.136	12° 51' 41.475'	75° 27' 10.231'
	4	549101.103	1421779.855	12° 51' 38.701'	75° 27' 9.123'
	5	548997.126	1421704.088	12° 51' 36.24'	75° 27' 5.669'
	6	548932.361	1421596.301	12° 51' 32.735'	75° 27' 3.514'
	7	548850.898	1421574.418	12° 51' 32.027'	75° 27' 0.81'

LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sande Alam
REVIEWED	J.K.Das
DATE	March 2018

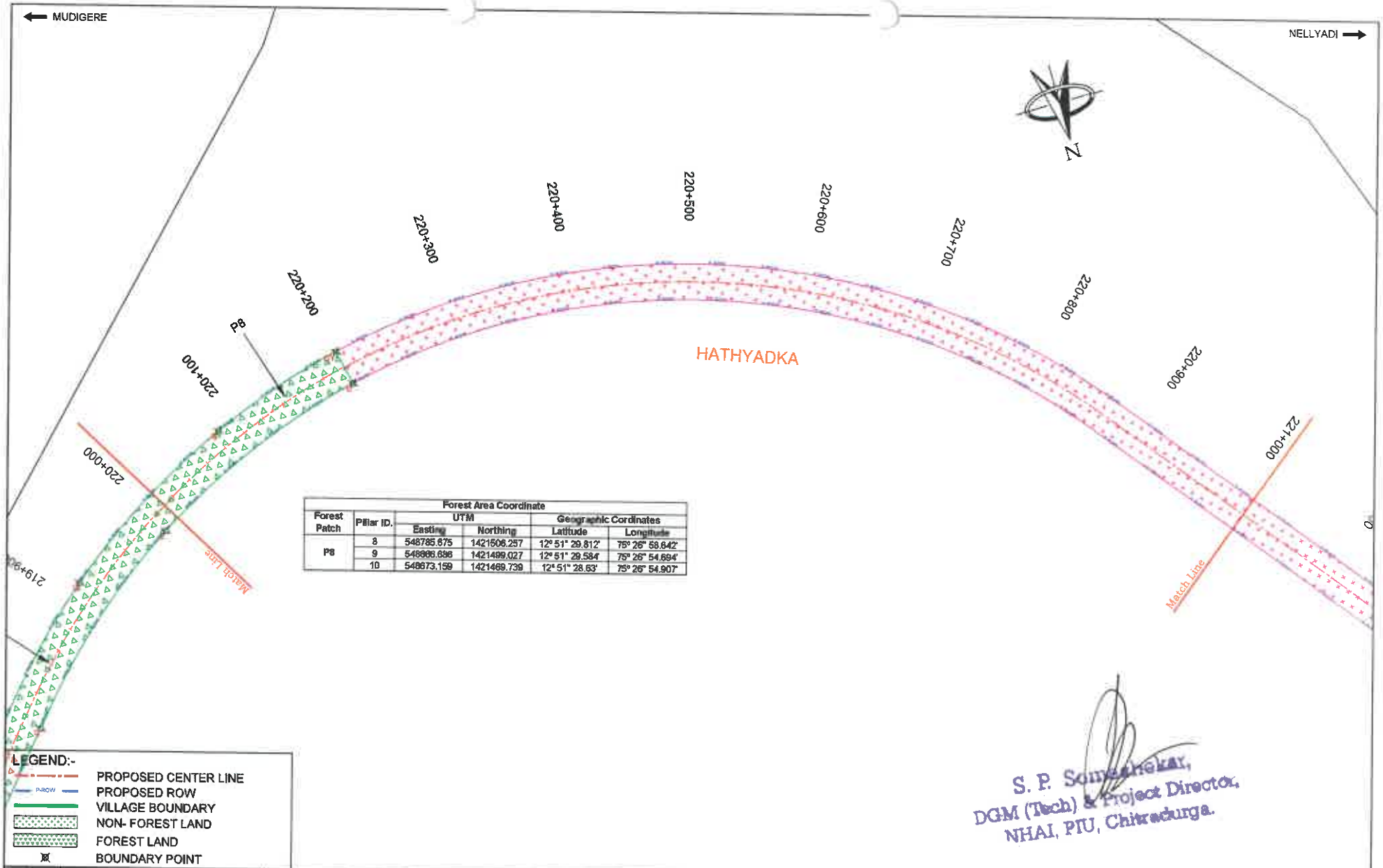
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 219+000 to Km. 220+000)

DRAWING No.: 73587\LASA\HWY\M-N\DGPS-57

REV.: R0

SCALE: 1:2000

SHEET: A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P8	8	548785.675	1421506.257	12° 51' 29.812'	75° 26' 58.642'
	9	548666.686	1421499.027	12° 51' 29.584'	75° 26' 54.694'
	10	548673.159	1421469.739	12° 51' 28.63'	75° 26' 54.907'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarfe Alam
REVIEWED	J.K.Das
DATE	March 2018

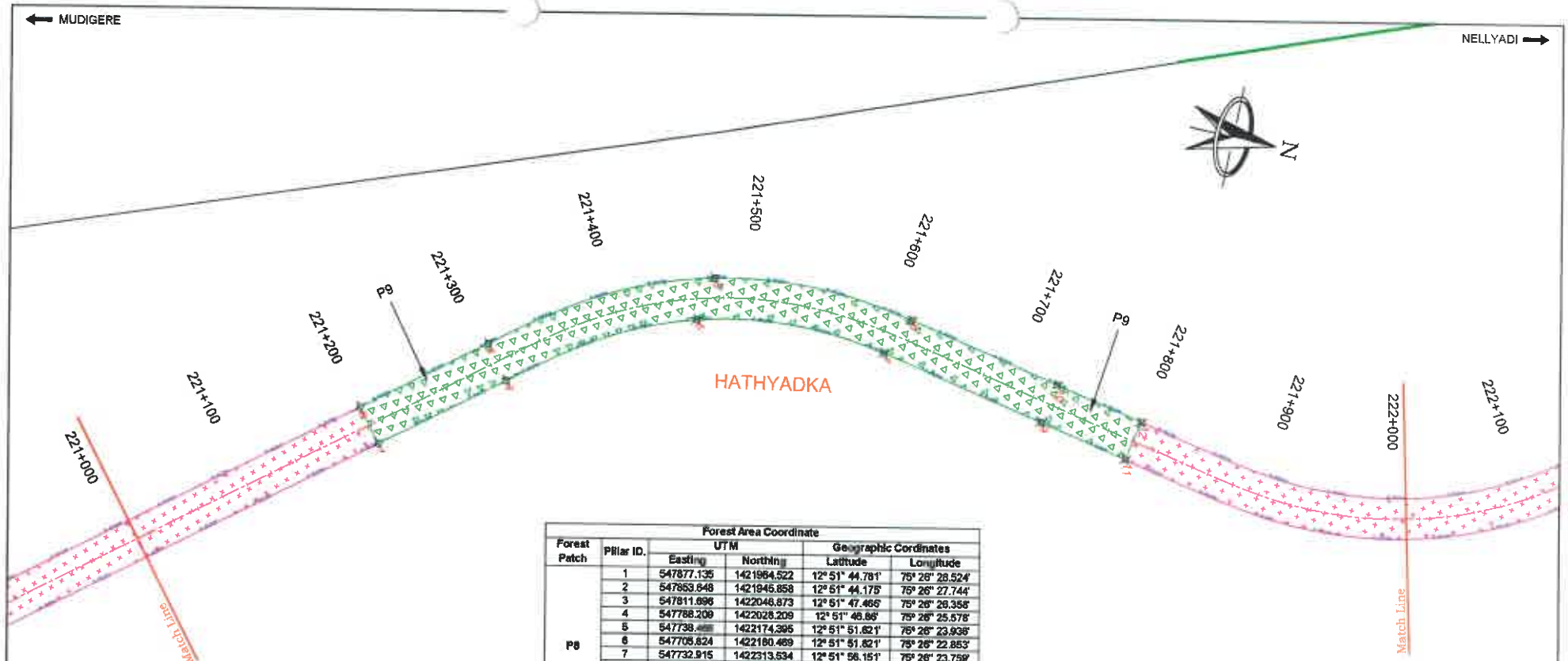
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 220+000 to Km. 221+000)

DRAWING No: 73587\LASA\HWY\M-N\DGPS-58

REV. R0

SCALE: 1:2000

SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P8	1	547877.135	1421964.522	12° 51' 44.781'	75° 26" 28.524'
	2	547853.648	1421945.858	12° 51" 44.175'	75° 26" 27.744'
	3	547811.696	1422046.873	12° 51" 47.465'	75° 26" 29.356'
	4	547788.209	1422028.209	12° 51" 46.86'	75° 26" 25.576'
	5	547738.[illegible]	1422174.395	12° 51" 51.621'	75° 26" 23.936'
	6	547705.624	1422160.469	12° 51" 51.621'	75° 26" 22.853'
	7	547732.915	1422313.534	12° 51" 56.151'	75° 26" 23.759'
	8	547706.125	1422328.405	12° 51" 56.636'	75° 26" 22.838'
	9	547757.601	1422436.784	12° 52" 0.162'	75° 26" 24.585'
	10	547728.200	1422442.749	12° 52" 0.357'	75° 26" 23.61'
	11	547770.982	1422502.728	12° 52" 2.308'	75° 26" 25.033'
	12	547741.581	1422508.694	12° 52" 2.503'	75° 26" 24.058'

LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Sonkar
DGM (Tech) & Project Director,
NHAI, PIU, Chikmagalur.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

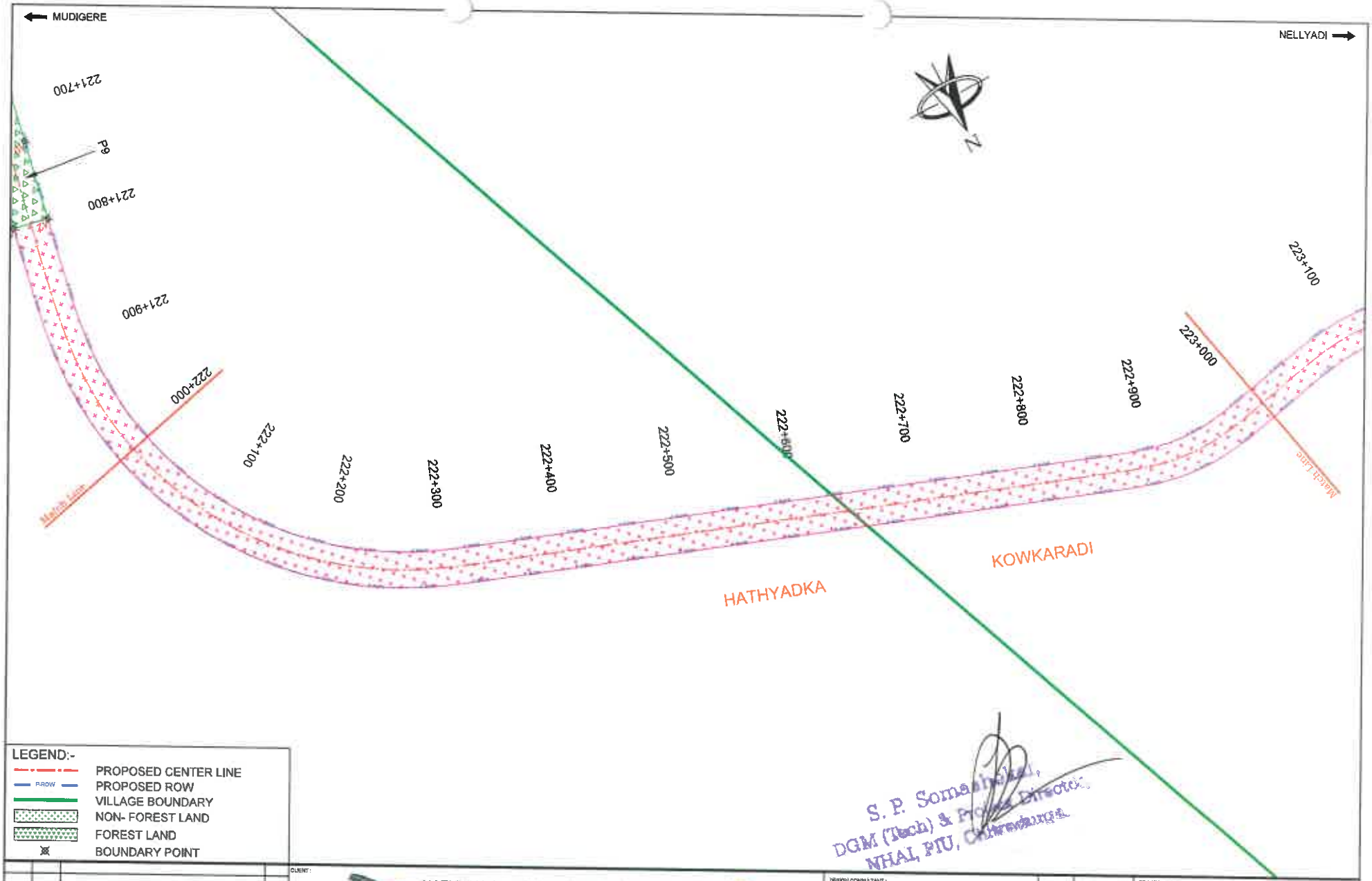
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 221+000 to Km. 222+000)

DRAWING No.: 73567\LASA\HWY\M-N\DGPS-59

REV.: R0

SCALE: 1:2000

SHEET: A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somasundaram,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

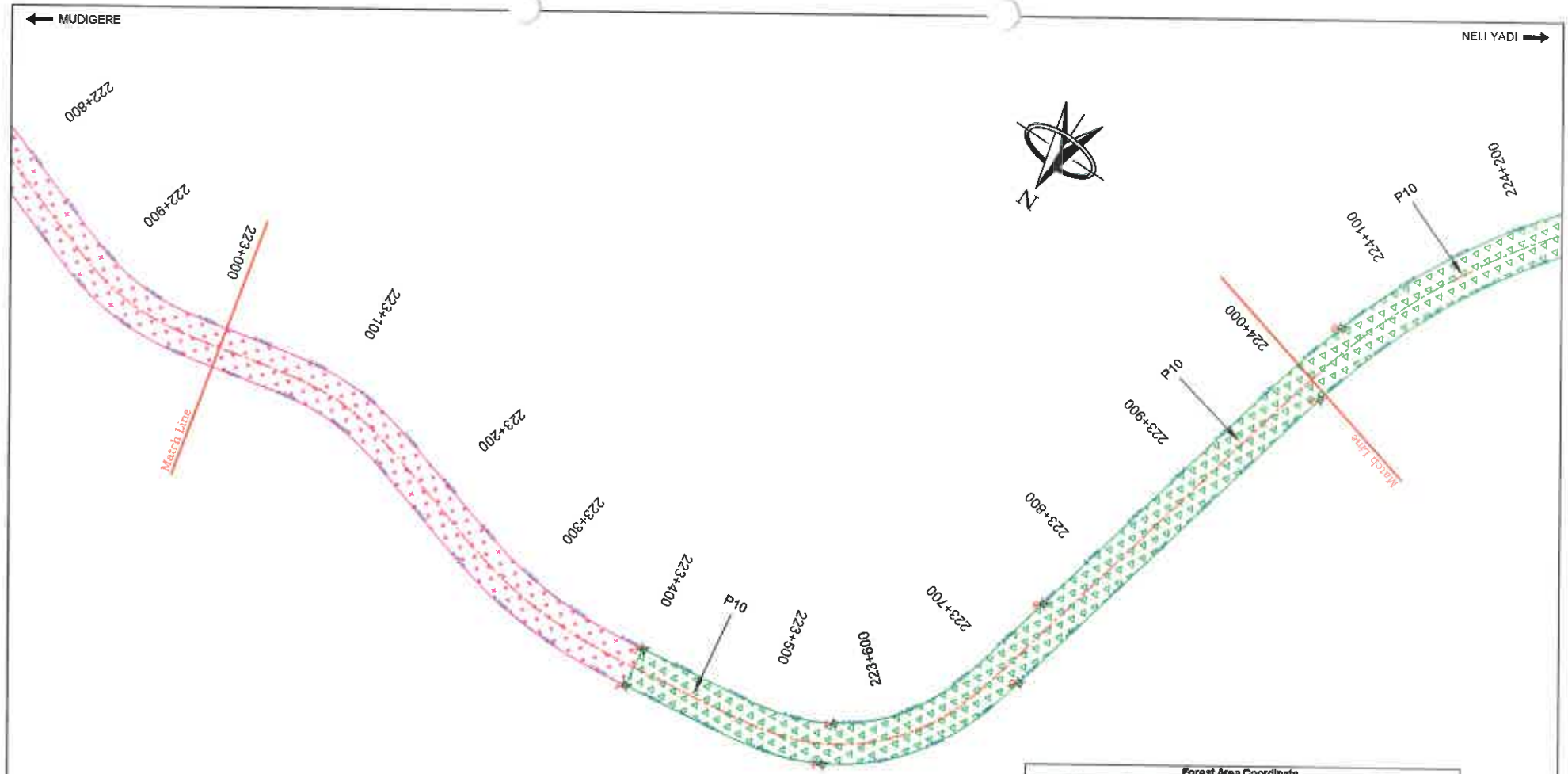
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 222+000 to Km. 223+000)

DRAWING No: 73687\LASA\HWY\M-N\DGPS-60

REV. R0

SCALE: 1:2000

SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P10	1	546529.082	1423167.146	12° 52" 24.005'	75° 25" 43.865'
	2	546532.600	1423137.357	12° 52" 23.035'	75° 25" 43.98'
	3	546376.830	1423135.464	12° 52" 22.982'	75° 25" 38.811'
	4	546386.526	1423105.834	12° 52" 22.017'	75° 25" 39.098'
	5	546288.961	1423005.583	12° 52" 18.758'	75° 25" 35.888'
	6	546306.098	1422947.190	12° 52" 16.857'	75° 25" 36.454'
	7	546219.356	1422710.085	12° 52" 9.143'	75° 25" 33.563'

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

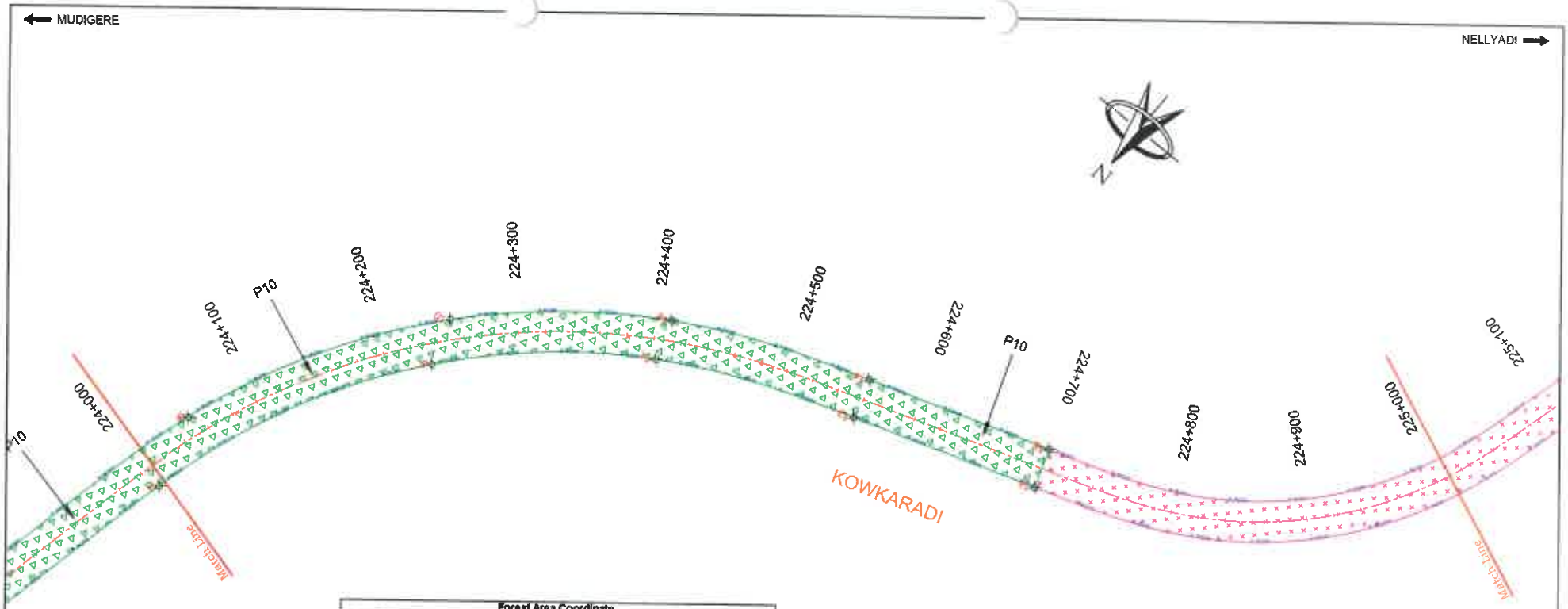
DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 223+000 to Km. 224+000)

DRAWING No : 73587\LASA\HW\M-NNDGPS-61

REV. R0

SCALE : 1:2000

SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P10	8	546234.897	1422657.131	12° 52" 7.418'	75° 25" 34.075'
	9	546120.697	1422513.589	12° 52" 2.751'	75° 25" 30.279'
	10	546130.752	1422479.328	12° 52" 1.636'	75° 25" 30.61'
	11	545995.754	1422406.653	12° 51" 59.277'	75° 25" 26.127'
	12	546004.461	1422376.985	12° 51" 58.311'	75° 25" 26.414'
	13	545856.676	1422347.883	12° 51" 57.371'	75° 25" 21.509'
	14	545865.128	1422319.083	12° 51" 56.433'	75° 25" 21.788'
	15	545721.459	1422303.552	12° 51" 55.935'	75° 25" 17.021'
	16	545730.805	1422275.045	12° 51" 55.007'	75° 25" 17.329'

LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT:

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT:

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Basu
CHECKED	Sarafa Alam
REVIEWED	J.K.Das
DATE	March 2018

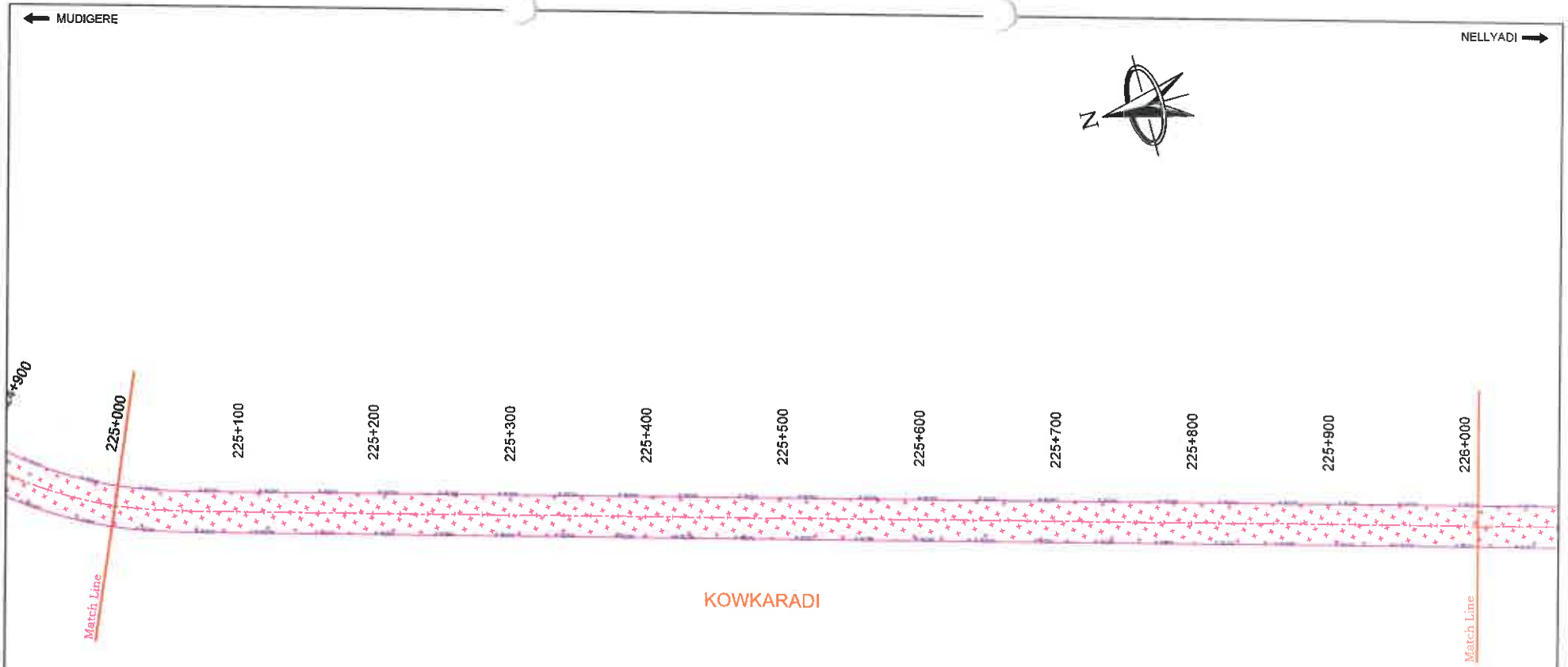
DRAWING TITLE:
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 224+000 to Km. 225+000)

DRAWING No.: 735687\LASA\HWY\M-N\DGPS-62

REV. R0

SCALE: 1:2000

SHEET A2



S. P. Somesh
DGM (Tech) & Project Director
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT :

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT :

DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT :

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

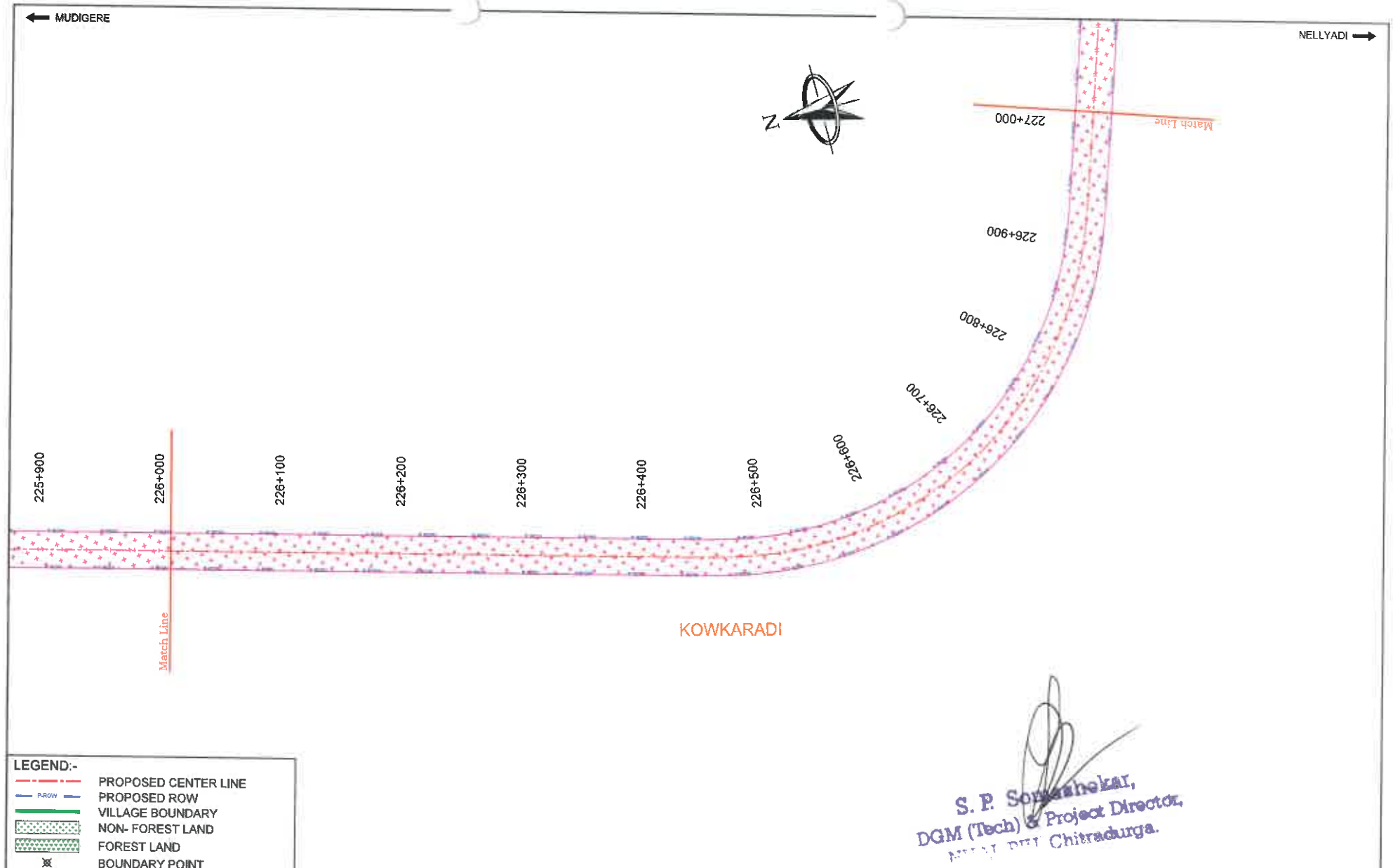
DRAWING TITLE-
APPLICATION FOR DIVERSION OF FOREST LAND
PHASE III: MUDIGERE TO NELLYADI JUNCTION
(Km. 225+000 to Km. 226+000)

DRAWING No : 73567\LASA\HWY\M-N\DGPS-63

REV. R0

SCALE : 1:2000

SHEET A2



LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT : NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT : DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT : LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Saur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

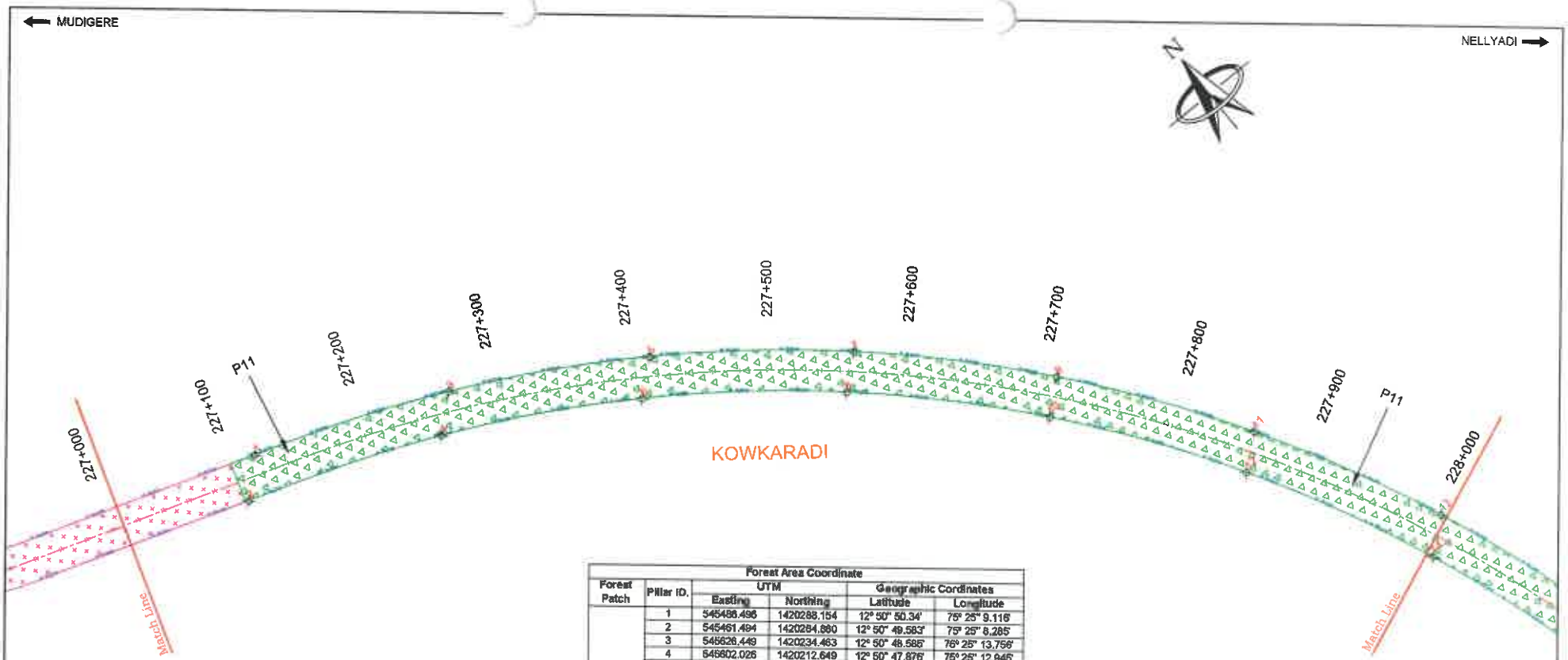
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 226+000 to Km. 227+000)

DRAWING No : 73587\LASA\HWY\M-N\DGPS-64

REV. R0

SCALE : 1:2000

SHEET A2



Forest Patch	Pillar ID.	Forest Area Coordinate			
		UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P11	1	545486.496	1420288.154	12° 50' 50.34'	75° 25' 9.116'
	2	545461.494	1420284.880	12° 50' 49.583'	75° 25' 8.285'
	3	545626.449	1420234.463	12° 50' 48.585'	75° 25' 13.756'
	4	545602.026	1420212.649	12° 50' 47.876'	75° 25' 12.945'
	5	545757.269	1420161.353	12° 50' 46.198'	75° 25' 18.092'
	6	545733.627	1420140.972	12° 50' 45.536'	75° 25' 17.307'
	7	545875.899	1420069.778	12° 50' 43.211'	75° 25' 22.023'
	8	545852.833	1420050.161	12° 50' 42.573'	75° 25' 21.257'
	9	545979.751	1419961.733	12° 50' 39.688'	75° 25' 25.463'
	10	545956.882	1419942.317	12° 50' 39.057'	75° 25' 24.703'
	11	546066.563	1419839.573	12° 50' 35.707'	75° 25' 28.336'
	12	546043.368	1419819.938	12° 50' 35.069'	75° 25' 27.566'
	13	546134.441	1419705.963	12° 50' 31.353'	75° 25' 30.581'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal	
DESIGN	Tanmoy Baur	
CHECKED	Sarde Alam	
REVIEWED	J.K.Das	
DATE	March 2018	

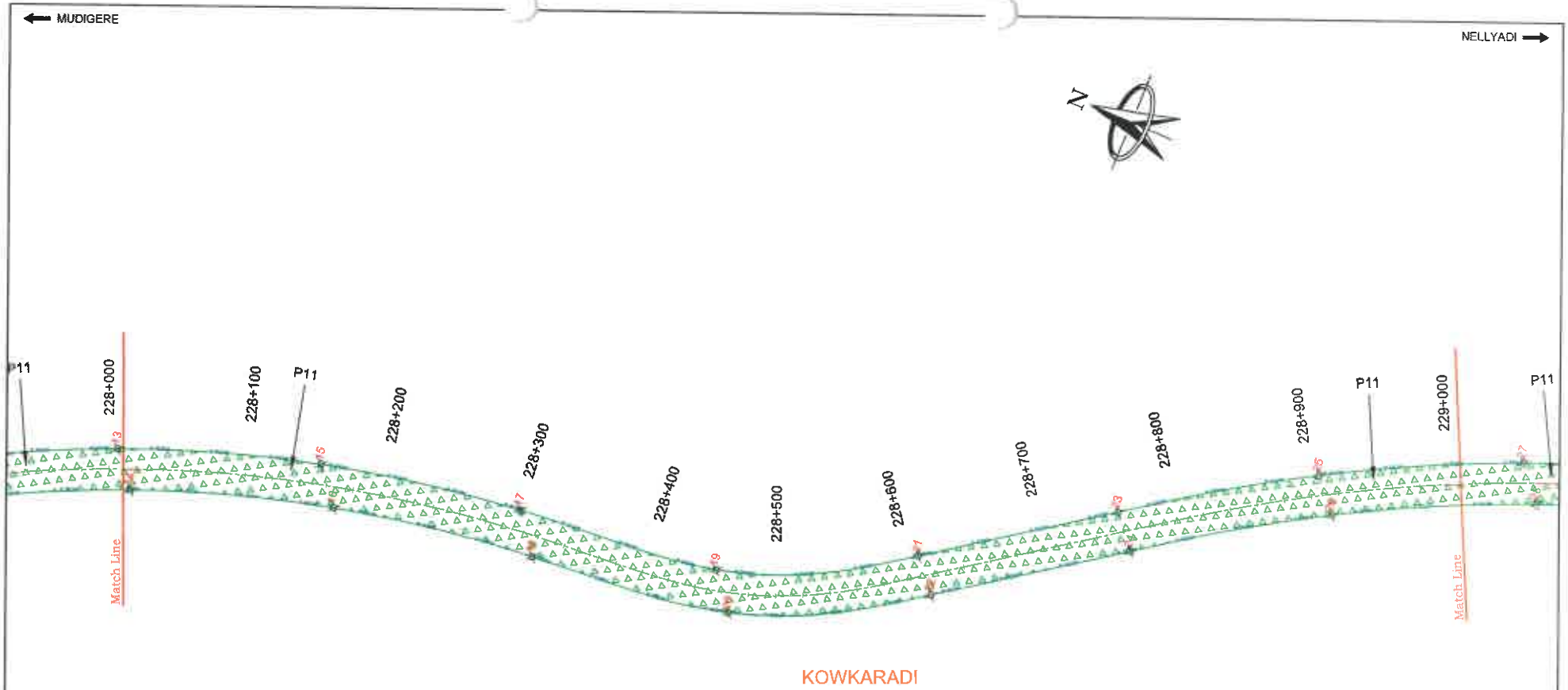
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 227+000 to Km. 228+000)

DRAWING No.: 735867\LASAI\HWY\M-N\DGPS-85

REV. R0

SCALE: 1:2000

SHEET A2



Forest Patch	Pillar ID.	Forest Area Coordinate			
		UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P11	14	546110.289	1419685.855	12° 50" 30.7'	75° 25" 29.778'
	15	546161.906	1419563.815	12° 50" 26.723'	75° 25" 32.148'
	16	546156.0948	1419543.172	12° 50" 26.053'	75° 25" 31.29'
	17	546207.9224	1419416.227	12° 50" 21.918'	75° 25" 33.003'
	18	546179.7389	1419395.193	12° 50" 21.234'	75° 25" 32.066'
	19	546223.2281	1419267.143	12° 50" 17.084'	75° 25" 33.502'
	20	546197.5343	1419246.529	12° 50" 16.394'	75° 25" 32.649'
	21	546290.2146	1419134.207	12° 50" 12.733'	75° 25" 35.717'
	22	546267.2496	1419114.717	12° 50" 12.099'	75° 25" 34.954'
	23	546376.6858	1419011.626	12° 50" 8.737'	75° 25" 38.579'
	24	546353.7008	1418992.136	12° 50" 8.104'	75° 25" 37.816'
	25	546458.8239	1418886.21	12° 50" 4.65'	75° 25" 41.297'
	26	546435.5312	1418866.514	12° 50" 4.01'	75° 25" 40.523'

LEGEND:-

- PROPOSED CENTER LINE
- PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Baur
CHECKED	Sarde Alam
REVIEWED	J.K.Das
DATE	March 2018

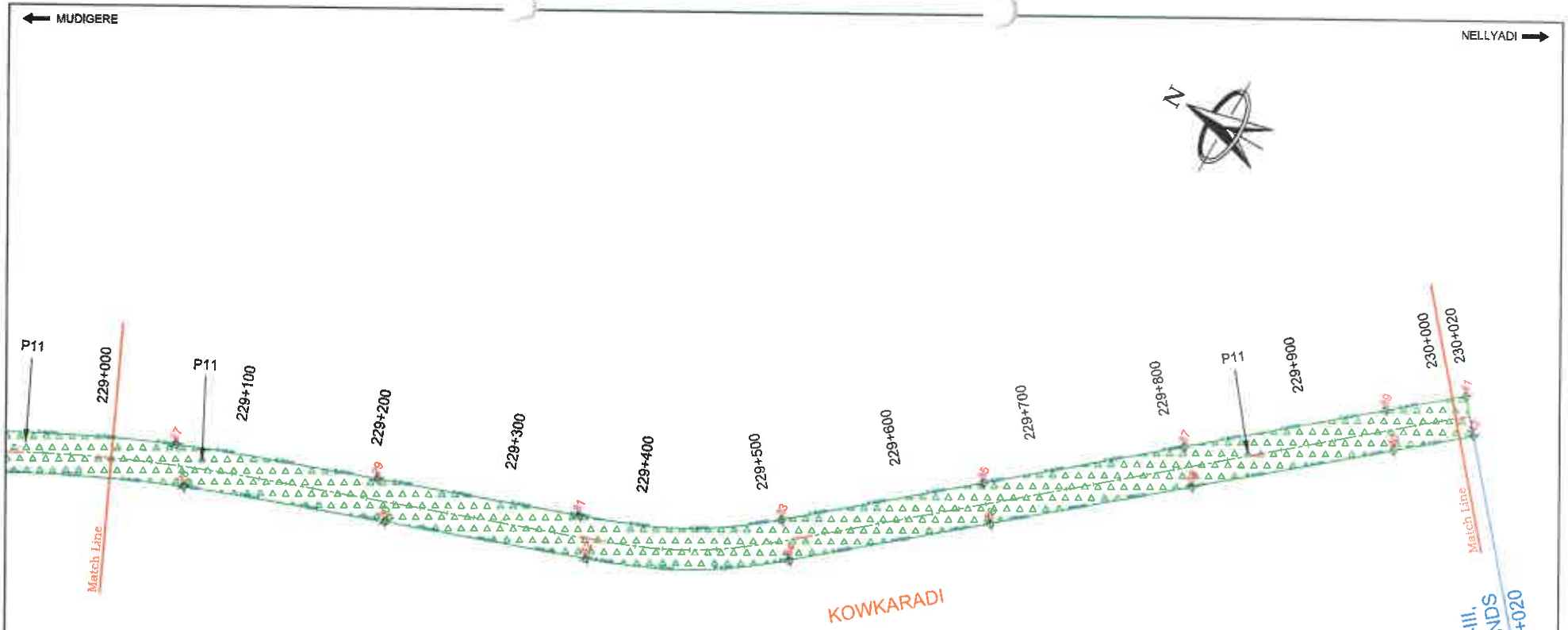
DRAWING TITLE: APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 228+000 to Km. 229+000)

DRAWING No.: 73587/LASAHWY/M-MDGPS-66

REV. R0

SCALE: 1:2000

SHEET A2



Forest Area Coordinate					
Forest Patch	Pillar ID.	UTM		Geographic Cordinates	
		Easting	Northing	Latitude	Longitude
P11	27	546525.4385	1418751.919	12° 50" 0.275'	75° 25' 43.5'
	28	546501.3146	1418731.82	12° 49" 59.622'	75° 25" 42.698'
	29	546578.1834	1418611.517	12° 49" 55.702'	75° 25" 45.242'
	30	546553.6389	1418591.253	12° 49" 55.043'	75° 25" 44.427'
	31	546529.5553	1418470.588	12° 49" 51.111'	75° 25" 46.938'
	32	546605.0354	1418450.333	12° 49" 50.453'	75° 25" 46.124'
	33	546701.9921	1418340.45	12° 49" 46.871'	75° 25" 49.334'
	34	546679.1275	1418321.032	12° 49" 46.24'	75° 25" 48.575'
	35	546799.5993	1418226.552	12° 49" 43.158'	75° 25" 52.566'
	36	546776.7326	1418207.132	12° 49" 42.527'	75° 25" 51.806'
	37	546897.2732	1418112.711	12° 49" 39.447'	75° 25" 55.8'
	38	546874.4066	1418093.291	12° 49" 38.816'	75° 25" 55.04'
	39	546994.9472	1417998.87	12° 49" 35.735'	75° 25" 59.034'
	40	546972.0806	1417979.45	12° 49" 35.104'	75° 25" 58.274'
	41	547033.968	1417953.391	12° 49" 34.253'	75° 26" 0.326'
	42	547011.199	1417933.856	12° 49" 33.818'	75° 25" 59.569'

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

LEGEND:-

- PROPOSED CENTER LINE
- P-ROW — PROPOSED ROW
- VILLAGE BOUNDARY
- NON- FOREST LAND
- FOREST LAND
- BOUNDARY POINT

DATE	REV. NO.	DESCRIPTION	BY

REVISIONS

CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Shipping, Road Transport & Highway)

PROJECT: DEVELOPMENT OF ECONOMIC CORRIDORS, FEEDER ROUTES AND COASTAL ROADS TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENT IN INDIA (LOT-3/KN/PACKAGE-2) PHASE III OF CHITRADURGA - MANGALORE INTERCORRIDOR OF NH 173 - FROM MUDIGERE HAND POST AT JUNCTION OF NH 73 TO NELLYADI JUNCTION AT KM 270.600 OF NH 75 (OLD NH 48) (DESIGN CHAINAGE FROM KM. 163+300 TO KM. 230+020)

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1/E-27, Mohan Cooperative Industrial Estate,
Mathura Road, New Delhi-110044

DRAWN	Ravindra Patwal
DESIGN	Tanmoy Saur
CHECKED	Sarda Alam
REVIEWED	J.K.Das
DATE	March 2018

DRAWING TITLE:- APPLICATION FOR DIVERSION OF FOREST LAND PHASE III: MUDIGERE TO NELLYADI JUNCTION (Km. 229+000 to Km. 230+020)

DRAWING No: 735871\LASA\HWY\M-N\DGPS-67

REV. R0

SCALE: 1:2000

SHEET A2

ANNEXURE – XXXIII

Annexure-XXXIII

LAYOUT PLAN OF PROJECT SITE APPROVED BY COMPETENT AUTHORITY (FOR NON LINEAR PROJECTS)

(NOT APPLICABLE AS IT IS A LINEAR PROJECT)

Signature

Project Director
NHAI, PIU, Chitradurga

DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

DATE 23/03/2018

PLACE: Chitradurga

ANNEXURE – XXXIV

Annexure-XXXIV

GEO REFERENCED DIGITAL MAP IN SHAPE FILE (FOR NON LINEAR DIVERSION)

(NOT APPLICABLE AS IT IS A LINEAR PROJECT)

Signature

Project Director
NHAI, PIU, Chitradurga

DATE 23/03/2018

PLACE: Chitradurga.

ANNEXURE – XXXV

Annexure-XXXV

MAP SHOWING ALTERNATE ROUTES WITH DIFFERENT COLOURS AND JUSTIFICATION OF SELECTING THE PROPOSED ROUTE. (IN CASE OF LINEAR DIVERSION).

Attached

5. Selection of Alignment

5.1 INTRODUCTION

The identification of the route alignment of the inter corridors Bantwal – Chitradurga and Koppal - Metgal was initially taken up in the early 2015 by the Ministry of Road Transport & Highways (MoRT&H) under Logistics Efficiency Enhancement Programme (LEEP) scheme. The alignment was Identified and submitted by M/s AT Kearney in his LEEP Final Report. Based on this alignment M/s NHAI has launched a scheme under Bharatmal to prepare detailed project report for development of Economic Corridors, Feeder routes, inter corridors throughout India to enhance the efficiency of freight transportation.

In the current consultancy assignment, the Consultant was asked to identify the most techno economically feasible alignment to connect the already identified corridor. It was however stipulated that the consultant might review the alignment based on existing conditions at site and possibility to develop the existing route as access controlled corridor if it passes through problematic area and will propose alternative solutions wherever it is necessary.

5.2 METHODOLOGY FOR ALIGNMENT SELECTION

In accordance with the Terms of Reference (ToR), the consultants studied the alignment finalized in the LEEP and the following steps were followed in finalizing the alignment:

- **STEP 1:** The first step was to conduct a preliminary ground reconnaissance jointly with the Client to identify the crucial bottlenecks of the project corridor. In this step the requirements for realignments/ new alignments were identified and the major settlement areas were also discussed which demands bypasses. During the initial site visit the black spot locations were also identified where geometric improvement is required.
- **STEP 2:** The Consultant mapped the critical alignment gradient of the existing road corridor at the Ghat sections which demands realignment. The mapping was carried out during the preliminary ground reconnaissance by a hand GPS instrument. The gradient mapped was also reconfirmed from the available topographic maps published by Survey of India.
- **STEP 3:** For determination of the alternative routes for the smooth grade alignment, the Consultants conducted a study of the local area and consulted other stake holders for finalization of the alternate routes.
- **STEP 4:** Once an alternate route was identified, a through desk study was conducted wherein the ground terrain data was extracted from available terrestrial imagery data and also studied from the Satellite Imagery collected from NRSC ISRO.
- **STEP 5:** After a preliminary finalization of the proposed realignment and bypasses, a walk-through survey to the accessible locations / paths was conducted by a team of experts comprising of the highway specialist, survey engineer and geologists for the finalization of the most probable alignment.

5.3 ALIGNMENT OPTIONS – BANTWAL TO CHITRADURGA

The alignment corridor is the primary link route connecting the Mangalore port at Bantwal to the Golden Quadrilateral of India NH 4 (Mumbai – Pune – Bangalore – Chennai Highway) at Chitradurga which is the central part of the State of Karnataka. The development of this route will enable the freight and commercial traffic which is destined for the Northern part of India from the Mangalore port to reach NH 4 at Chitradurga by shortening in distance to about 196 Km than travelling through the present NH 75 connecting Bantwal to Hassan and to NH 4 near Tumkur traversing through the

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Shiradi Ghat. Bantawal to Chitradurga, the project corridor traverse through Mudigere, Chikkamangaluru, Kadur, Hosadurga and Holelkere is about 278 Km and from Bantwal to Chitradurga via NH 75 and NH 4 is 474 Km. The figure below depicts the connecting locations from Bantwal to NH 4 via the project corridor and the existing NH 75.

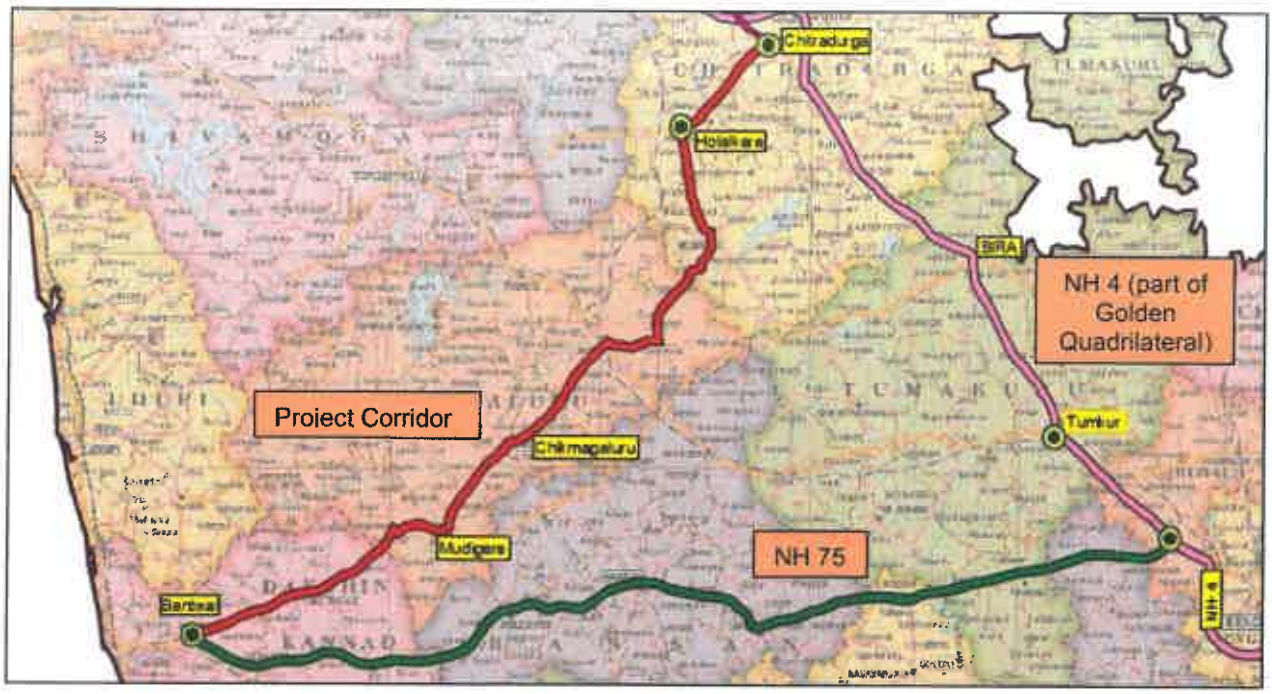

Figure 5-1: Route showing Project Corridor and Existing NH 75

Another aspect which demands the development of the proposed project corridor is that, the region of Mudigere and Chikkamangaluru are hubs of coffee plantations which has short self-life and need immediate processing. This proposed corridor will boost the coffee industry as well as regional economy and live hood.

5.3.1 Realignment for Charmadi Ghat

During the preliminary site visits consultations with various stake holders were conducted with available ground data mapping, the Consultants came to understand that the major bottle-neck for the Bantwal to Chitradurga corridor is the portion of the alignment passing through the Charmadi Ghat section which start from the Charmadi village end ending near Bidarahalli village. The criticality of this portion of alignment is that the alignment undergoes major grade change from around 198m MSL to around 974m MSL within a very short length of around 22 Km which is characterised by a seriese of hair-pin bends and bling curves. The average gradient along the corridor is more than 5% and at some stretches the gradient exceeds 8.5% to 10%. The figure blew depicts the rise in ghat section.

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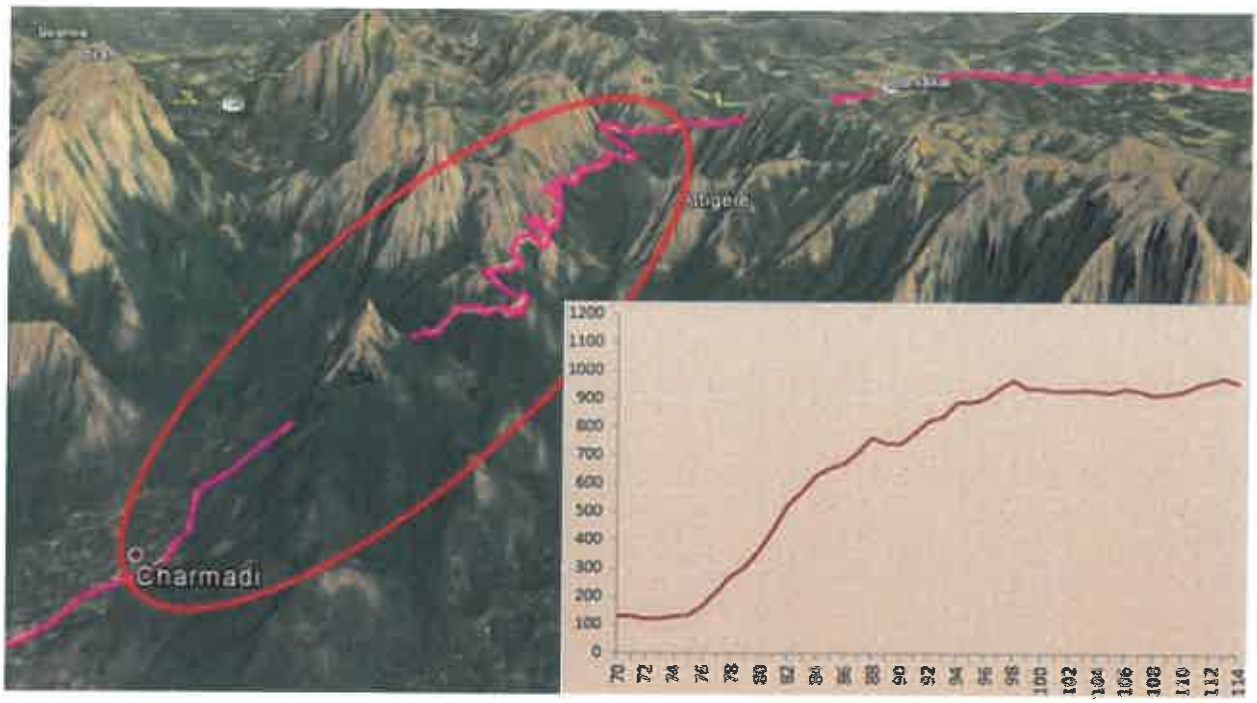

Figure 5-2: Grade in Charmadi Ghat Section

The steep gradient and the sharp curves make the existing route from Bantwal to Chikkamangaluru via Mudigere unfavourable for the commercial traffic movement. The long trailer vehicles unable to negotiate the sharp hairpin bends and the heavy vehicles require uneconomical tractive efforts to raise the steep gradients. Hence as a result the North bound freight movement from the Mangalore port tends to take the existing NH 75 through Hassan passing through Shiradi Ghat section and reaches Chitradurga even though the route is about 196 km longer in length than the proposed route under study.

The tendency for the commercial vehicles prefering the route through the existing NH 75 through Shiradi Ghat due to the following factors:

- A major portion of NH 75 from NH 4 junction near Visveswarapura upto Hassan about 153 Km is four laned.
- The Shiradi Ghat section (about 20 Km in length) is a gentler ghat section as compared to the Charmadi Ghat section. In this section the gradient and curves are quite negotiable by the commercial freight traffic. Hence the State Government had taken up the work of upgrading the existing road through the Shiradi Ghat by 10m width rigid pavement.
- The remaining portion of NH 75 from Hassan to Maranahalli and from Addahole to Bantwal Cross Road has been awarded for 4 laning.

The figure below shows the location of both the Ghat Sections that is the Charmadi Ghat and the Shiradi Ghat and the development of NH 75.

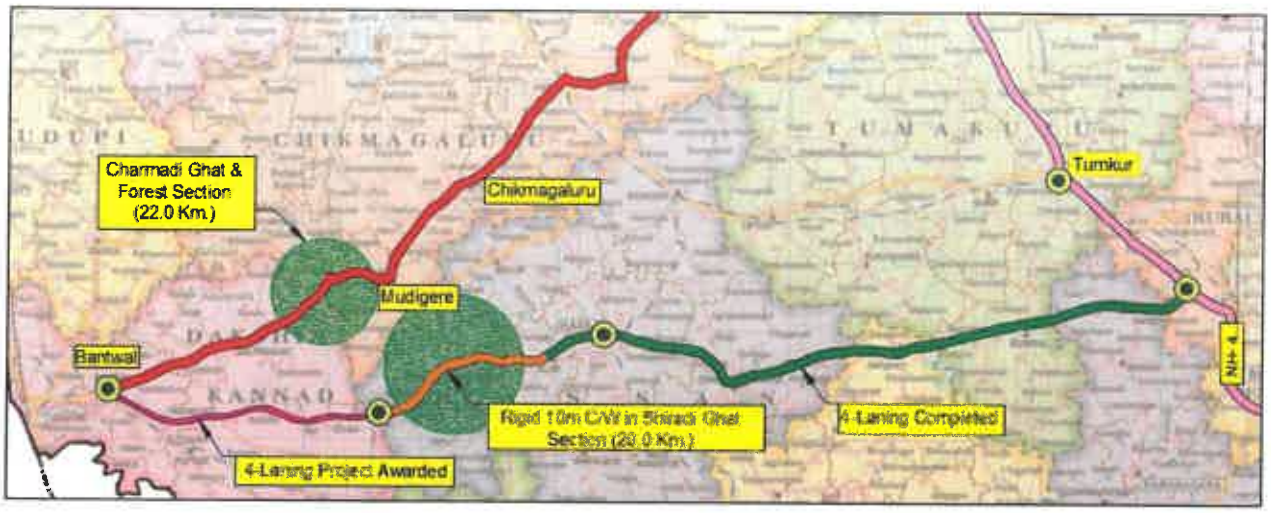

Figure 5-3: Ghat Sections and the Development of NH 75

The Consultants while exploring the various options for alternate to the Charmadi Ghat Route, came to understand that the State Government had once taken up the study for of a new route connecting Mudigere Hand Post with NH 75 near Nellyadi, to promote the pilgrimage visits to the Temples of Shishila, Byreshwara and Dharmastala. The figure below depicts the alternate route connection the religious places.

Figure 5-4: Proposed Alternate Route Option

Dharmasthala Temple is an 800 year old religious institution in the temple town of Dharmasthala in Dakshina Kannada, Karnataka. Every year thousands of devotees visit Dharmastala to pay homage to the Temple deity. Lakshadeepa, the festival of lights, is the annual festival of Dharmasthala in November–December. On an average the flow of pilgrims is about 10,000 people a day. Due to lack of connecting routes the devotees often avoids the other two religious destinations which are Temples of Shishila and Byreshwara. So to connect these two religious spots the study of the alignment was taken up but the study was temporally suspended due to lack of fund. The new route will also enable the pilgrims coming from the Northern part of Karnataka, Maharashtra, Andhra Pradesh and other Northern States of India to reach Dharmasthala without negotiating the sharp curves and the step

gradients of Charmadi Ghat Section and it will enable the pilgrims to pay homage to the temples of Shishila and Byreshwara.

Communications between State and Central Government for funding and implementation of linking Shishila & Bhairapura, in the Mudigere Taluka of Chikkamangalur District

VIP Reference letters:-

A. *Letter No. CNH/Tai/AE2/New Road/Sadanandagowda, MP/2009-10; dated 04/..../2009. Written to The Director General (Roads Wing) & Spl. Secretary to GoI. MoRTH by Chief Engineer National Highway, Banglore.*

B. *Fax No: Mar.17 2010 dated 24th Feb 2010. Written to Shri Kamal Nath, the Then Hon'ble Minister of Road Transport and Highway, GoI, New Delhi by D.V Sadananda Gowda Member of Parliament (Lok Sabha).*

C. *Letter No. CM/462/GOI/2011 dated 16th Sep 2011. Written to Shri C.P Joshi, the then Hon'ble Minister of Shipping, Road Transport and Highway, GoI, New Delhi by D.V Sadananda Gowda Chief Minister of Karnataka.*

In the above mention reference letters, the state government since 2009 shows the imperatives of the linking of Shishila and Bhyrapura, in the Mudigere Taluk of Chikkamangaluru District by new road which further gets connected to economic corridor and pilgrimage in Dakshin Kannada District. It also shows that no proper connectivity exists between Chikkamangaluru District and Dakshin Kannada District. During the previous government (United Progressive Alliance –UPA), letters where written by the Chief Engineer, NHAI, The Member of Parliament (Lok Sabha) and the Chief minister of Karnataka through personal request has written through vide letter no. CM/462/GoI/2011 dated 16.09.2011 to Shri C. P. Joshi, the then Hon'ble Minister of Shipping, Road Transport and Highway, GoI, New Delhi for approval of the linking of Shishila and Bhyrapura, in the Mudigere Taluk of Chikkamangaluru District. The letter also highlight the needs of is connecting economic corridor and pilgrimage in Dakshin Kannada District and required to expedite the approval of the project in the financial year (FY) 2010-11 and again requested in FY 2011– 2012 by Government of India.

While exploring the alignment from the Mudigere Hand post to NH 73 near Nellyadi, the Consultants found that there are two ODRs one connecting Mudigere Hand post to the near location of Byreshwara Temple and the other originating from near Shishila Temple and connect NH 73 near Nellyadi. Inbetween the two routes, there are a combination of fair-weather roads and foot tracks along the hill slopes of Bhyrapura Coffee Estates. The figure below shows the alignment details.

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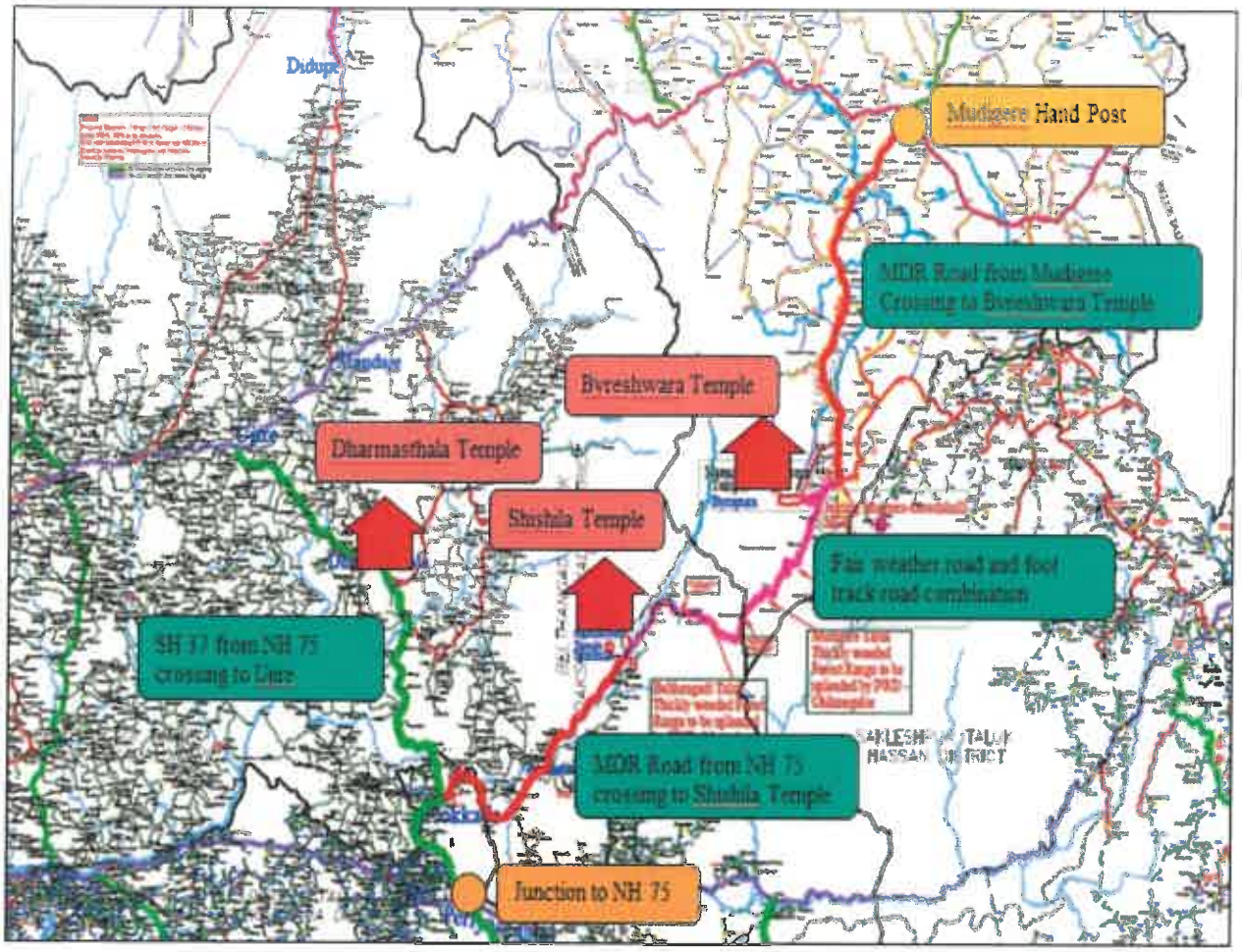

Figure 5-5: Details of Proposed Route

Based on the satellite imagery data and the topographic contour maps obtained from the Survey of India the Consultants tentatively outlined two alignment alternatives on the virgin foothills of Byrapura ranges for a descent / ascent from a level of 960m (MSL) to a level of 200m (MSL). The layout for both the alternatives are presented below.

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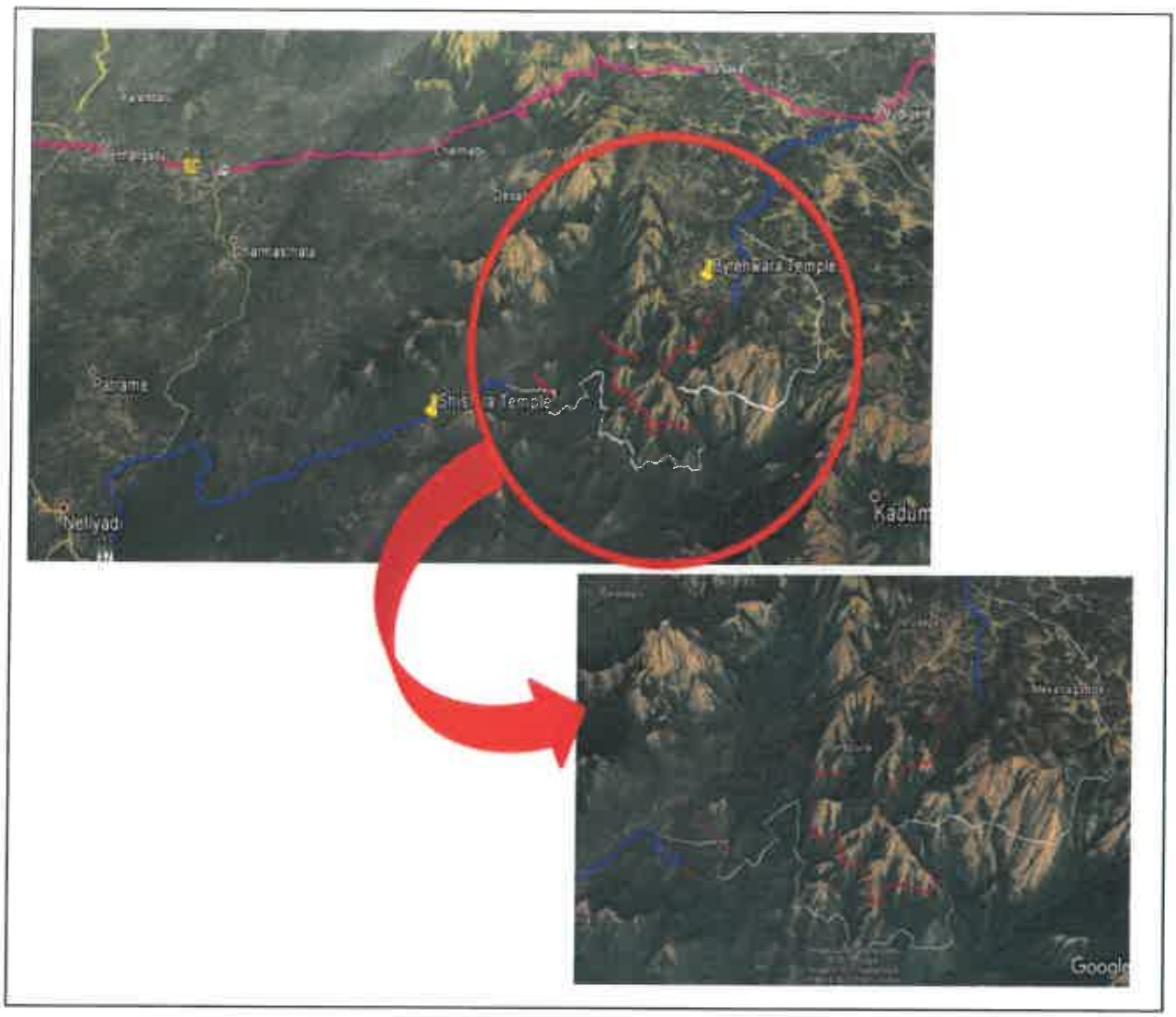

Figure 5-6: Proposed Virgin Alignment

The Consultants generated a tentative ground contour data and a DEM (Digital Elevation Model) obtained the secondary data of the digital satellite imagery. From the ground data, the alignment options as finalized were further fine-tuned so that the average gradient is about 5%. The proposed virgin / new alignment options with the tentative ground profile have been depicted in the figure given below.

S. P. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

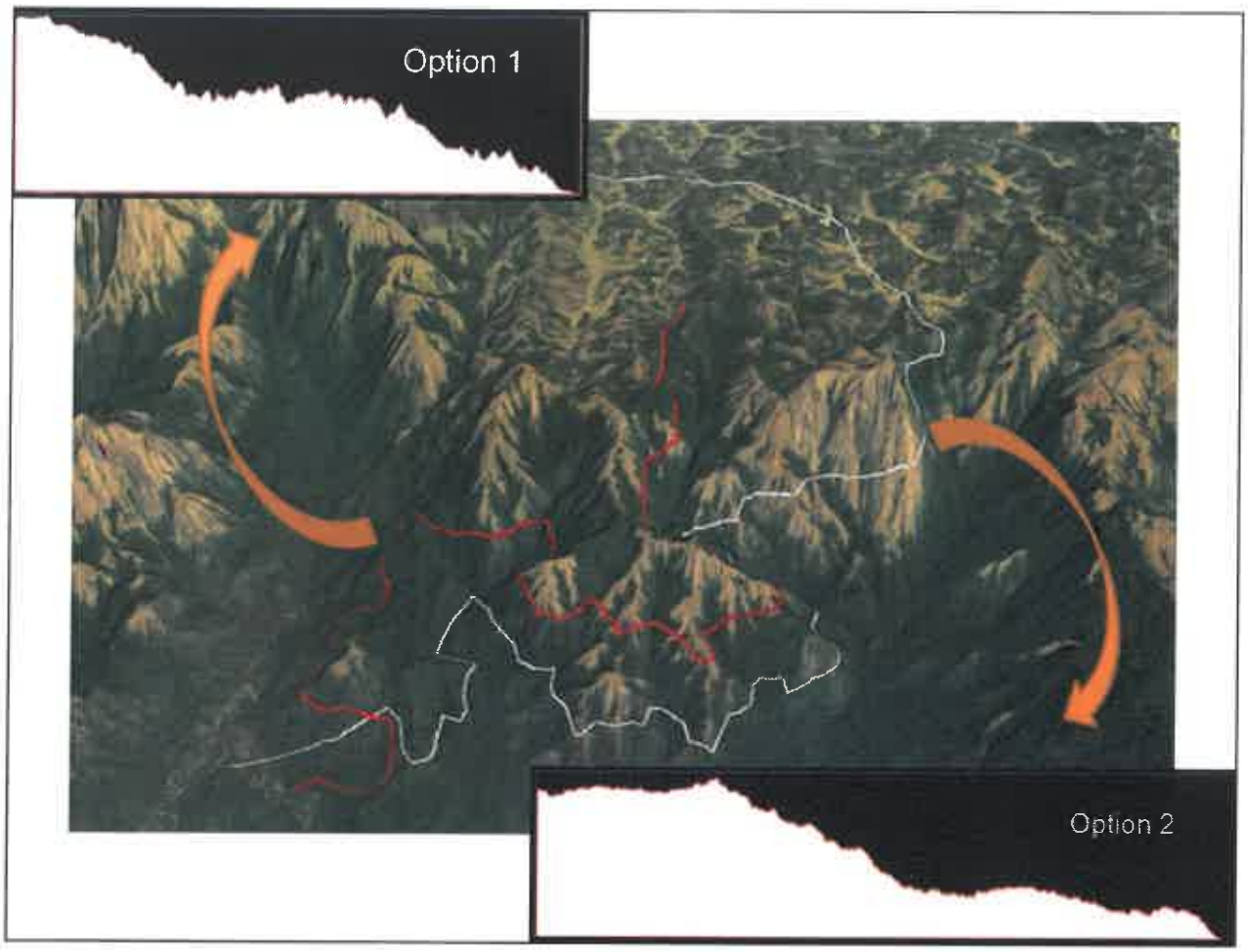

Figure 5-7: Proposed Profile for the Alignment Options

Both the alignment options follow the gentle slope to reach the descent / ascent of around 760m. The alignment Option 1 attains the elevation change within 24.75 Km that is having an average gradient of around of 3%. Though the gradient will not be the same throughout but there will be a maximum of 4.5 to 5% at some locations and there will be some relief grades (flat grades) of 1.5 to 2.0% for easy freight movement.

The alignment Option 2 attains the elevation change within 34.4Km out of which about 8.8Km is on the flat plateau ground. So the length of alignment for the net grade change is 25.6Km that is having an average gradient change of 2.9% which is almost same for Option 1.

The basic advantage which the Option 1 has over Option 2 is that being shorter in length, Opting 1 will induce lesser environmental impact as compared to the other. Hence Option 1 has been considered as the design alignment for this report.

The alignment options are purely tentative at this stage, further modifications shall be carried out on further stages of the detail design for which the length may vary and there may be requirements of tunnels and viaduct structures for smooth alignment geometry.

The following positive weightages has been adhered for the proposed new alignment as an alternative to the original route through Charmadi Ghat.

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Senior Director,
DGM (Tech.)
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- Preliminary study reveals that in comparison to the existing route through Charmadi Ghat Section which passes through the Revenue Forest the proposed alignment mostly passes through the Byrapura Coffee Estates and other private plantation estates.

- The existing section of road (of NH 73) from Mudigere to Bantwal Crossing of approximate length of 94 Km, traversing Charmadi village, Ujire, Belthangady, Guruvayankere, Punjalkatte, Kavalkatte is entirely ribbon developed with settlement along the entire length. Here the widening of the existing road will induce huge impact on the acquisition and resettlement cost and also realigning the entire length will also be uneconomical. Hence avoiding this entire corridor length including the Charmadi Ghat section with sharp hairpin bends and steep rising gradients, the alternate route will be of smooth and negotiable grades and length from Mudigere Hand post to the junction at NH 75 will be approximately 65 Km.
- The section of NH 75 where the proposed alignment is to terminate has already been awarded for Four Laning upto Bantwal Road Crossing.
- The proposal will reduce the cost for four laning of two parallel corridors from Bantwal Road Crossing to Mudigere Hand Post (approximately 94 Km) and also from Bantwal Road Crossing to Nellyadi (approximately 42 Km) which has already been awarded for four laning.
- The development of the corridor will promote pilgrimage visits to the Temples of Shishila and Byreshwara.
- The Consultants while conducting the preliminary ground reconnaissance observed that road connecting Ujire to Dharmastala and Nellyadi to Dharmasthala found that the existing road is insufficient to handle the huge amount of growing pilgrim traffic to Dharmasthala. During the annual festivals, in the month of November and December, it is estimated that about 10,000 people visit the temple every day. Hence to cater the huge volume of traffic, it is recommended that the connecting road from the project corridor needs to be upgraded.
- The development of route will enable the commercial traffic movement from Mangalore port to the norther part of India without negotiating the Charmadi ghat section and also will reduce the travel distance by 190 km compared to the existing route through the Shradi Ghat Section.
- The development of this route will also enhance the commercial development of the area in means of export of the plantation products namely coffee, cardamom, pepper and areca.

The Consultant presented the proposed alignment at various forums and the Client, principally accepting the layout of the proposed alignment, advised to carry out the detailed engineering investigations and studies along the proposed layout corridor for further refinement of the alignment and to carry out a detail environmental study necessary for the forest, wild life and environmental clearance.

S. B. Sc...
DGM (Tech) & Project Director
NHAI, PIU, Chikmagalur

Part –II Category Specific

A. Additional Checklist for Roads

ANNEXURE - I

Annexure-I

Part –II Category Specific

A. Additional Checklist for Roads

CERTIFICATE OF USER AGENCY FOR USE OF FLY ASH

It is certified that fly ash is not available within 100 km. of the proposed involving diversion of 7.95 ha of forest land

Signature

Project Director
NHAI, PIU, Chitradurga

Signature

Deputy Conservator of Forests
Chickamangaluru

Annexure-I

Part –II Category Specific

A. Additional Checklist for Roads

CERTIFICATE OF USER AGENCY FOR USE OF FLY ASH

It is certified that fly ash is not available within 100 km. of the proposed involving diversion of 7.35 ha of forest land

Signature

Project Director
NHAI, PIU, Chitradurga

S. P. Somashekhar,
DGM (Tech) & Project Director
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Hassan

Annexure-I

Part –II Category Specific

A. Additional Checklist for Roads

CERTIFICATE OF USER AGENCY FOR USE OF FLY ASH

It is certified that fly ash is not available within 100 km. of the proposed involving diversion of 44.83 ha of forest land

Signature

Project Director
NHAI, PIU, Chitradurga

S.V. Somashekar,
DGM (Tech) & Project Director,
NHAI, PIU, Chitradurga.

Signature

Deputy Conservator of Forests
Mangaluru

ANNEXURE - II

Annexure-II

TRAFFIC DATA OF LAST FIVE YEARS

Attached

ANNEXURE - III

CERTIFICATE OF DCF REGARDING TREE CUTTING LIMITED TO 14 MTR. (FOR TWO LANE) AND 22 MTR. (FOR FOUR LANE)

(To be provided by the forest department)