

Consultancy Services for Feasibility Study, Preparation of Detailed Project Report and providing pre-construction services for up gradation of newly declared National Highway, Tharthri-Kahaljugasar-Kilhotran (70 km, District-Doda, J&K) to Makhan-Chachool (10 km, District-Chamba, Himachal Pradesh) to 2-lane with paved shoulder including Feasibility study cum DPR of Tunnel of approx. length 4 km near Kahaljugasar in the state of Jammu and Kashmir.

Evaluation for assesment of experience of the firms (Relevent experience of firm for assingment)

| S. No. | Description | Mximum marks | M/s RODIC CONSULTANTS PVT. LTD In Joint Vent GETINSA EUROESTUDIOS S.L. | ture with TPF | M/s Almondz Global Infra-Consultant Limited (A Whe Subsidiary of Almondz Global Securities Limited) In Jo with SUBTERRA INGENIERIA S. L. | | M/s Kunhwa Engineering & Consulting Co. Ltd. in association with Satvig Survey Engineers Private Limited | | | |
|--------|--|-----------------|--|---------------|---|-------|--|-------|--|--|
| | | | Details | Marks | Details | Marks | Details | Marks | | |
| 1 | Average Annual Turover (last Five years) from consultancy businees Firm Average Turnover of last 5 years < 5 erore: 0 marks Firm Average Turnover of last 5 years >= 5 crore but< 10 crore: 3 marks Firm's Average Turnover of last 5 years >= 10 crore: 4 marks | 4 | More than 10 Crore: 63.024 Crore (LM) | 4 | More than 10 Crore: 80.6 Crore(LM) + 16.004 Crore(OP) = 96.604 Cr. | 4 | More than 10 Crore: 873.938 | 4 | | |
| 2 | Specific experience of the DPR consultancy related to the assignment for eligibility (Maximum marks = 12) 1.1 Aggregate Length of DPR / Feasibility study of 2/4/ 6 lane projects: 6 Marks 1.1.1 More than indicative length of the package: 4 marks 1.1.2 More than 2 times the indicative length of the package: 5 marks | 6 | Aggregate Length of DPR / Feasibility study of 2/4/6 lane projects more than 3 times the indicative length = 300.5 Km > 240 Km which is more than 3 times the indicative As per the Project Sr.No 8,20 On infracon website moved data | 6 | Aggregate Length of DPR / Feasibility study of $2/4/6$ lane projects more than indicative length = $82.83~{\rm Km}$ > $80~{\rm Km}$ which is more than the indicative length. | 4 | Aggregate Length of DPR / Feasibility study of 2/4/ 6 lane projects more than 3 times the indicative length = 768.00 Km > 240 Km which is more than 3 times the indicative length. As per the Project Sr.No 2,4,5,6,8,9,10,11,12,14 | | | |
| 3 | 1.1.3 More than 3 times the indicative length of the package: 6 marks 1.2 DPR for 2/4/6 laning projects each equal to or more than 40 % of indicative length of a package applied for or Feasibility Study for 2/4/6 laning projects each equal to or more than 60 % of indicative length of a package applied for) 1.2.1 1 Project: 4 marks 1.2.2 2 Projects: 5 marks 1.2.3 3 or more Projects: 6 marks | 6 | 3 or more Projects as per Infracon project sr. no 8, 20 (Rodic) & TPF GETINSA EUROESTUDIOS S.L. Infracon No 63 & 64 | 6 | 2 Projects as per infracon project sr. no.64,65 | 5 " | Two Projects as per infracon project sr. no.12 & 8 | 5 | | |
| 4 | DPR of Bridge having length more than 200 meters 2.1 1 Bridge: 1 mark 2.2 2 Bridge: 2 marks 2.3 3 Bridges: 3 marks 2.4 4 or more Bridges: 4 marks | 4 | 4 or more Bridges more than 200m length as per infracon project sr. no 8,20 | 4 | Zero no Bridge more than 200 m length per infracon project sr. no 64,65 & 45 | 0 | 4 or More Bridge project length more than 200 m as per infracon project sr no 10 & 14 | 4 | | |
| 5 | DPR of number of tunnels (≥1.6 Km) 1. Projects: 1 mark 2. Projects: 2 mark 3. Projects: 3 mark 4. Projects: 4 mark 5. or more Projects: 5 mark | 5 | One Project detail as per Infracon Sr. No. 98 & 47 For considering projetct no 47 (As per Annexure-A) | 2 | 2 Projects as per Infracon Sr. No 6 & 45 | 2 | 2 Projects as per Infracon Sr. No 9 &11 For projetct no 11 details as per Infracon. | 2 | | |
| | Total | 25 | | 22 | | 15 | | 21 | | |

Public Works Agency, Regional Government of Andalusia DEVELOPMENT AND HOUSING COUNCIL

I. Mario García Remírez, Civil Engineer in the PUBLIC WORKS AGENCY OF THE REGIONAL GOVERNMENT OF ANDALUSIA, formerly "FERROCARRILES DE LA JUNTA DE ANDALUCÍA", Project Manager,

HEREBY CERTIFY:

- That the Company EUROESTUDIOS, S.L. was awarded the Contract for the "PRELIMINARY AND DETAILED DESIGN PROJECT OF THE COSTA DEL SOL RAILWAY CORRIDOR SECTION: SAN PEDRO DE ALCÂNTARA-ESTEPONA" in a consortium with TYPSA-PROSER-PAYMACOTAS, the percentage share for each company being 25% for EUROESTUDIOS, 25% for TYPSA, 25% for PROSER and 25% for PAYMACOTAS, said distribution sustained throughout the contractual term.
- 2 The work was done between 11 January 2008 and 30 November 2012.
- 3 The invoiced value of the contract amounted to FIVE MILLION SIXTY-ONE THOUSAND SIX HUNDRED FIFTY EUROS (65,061,650.00).
- 4 The Project Budget amounted to €1,417,298,251,73.
- 5 The contract was for the design and complete definition of the infrastructure, superstructure, installations, electrification, station architecture and security, signalling and communications components on the high-parformance line between the localities of San Pedro de Aldántara and Eslapona in the province of Málaga.
- 6 The following were the most important technical details of the project designed:
 - Langth of section: 17.2 Km double track + 2 Km of technical branch (single track).
 - Track electrified at 25 kV.
 - Design speed: 220 Km/h.
 - Track gage: UIC international, 1,435 mm.
 - Track type:

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- o in the twin-track section:
 - o Ballastless track with VLT system.
 - o 60 E1 Rail, hardness 900, 1/20 inclination in BLS.
 - o Blocks elastomer covered, 0.60 m spacing.
 - o Mooring system: Vossion Modified (VM).
- a In the single-track section:
 - o Conventional track on ballast
 - o Rail, 54.
- o Al-04 monoblec concrete sleepers, 0.60 m spacing
- o Moorling system: Vessich Modified (VM).
- Tunnel length: 38.97 Km.
 - a San Pedro-Cancelada line tunnel: 7 Km double tunnel. Internal diameter: 8.5 m. Coristruction method: TBM.
 - o Benamara Station: 0.90 Km tunnel between screens.
 - o Cancelada Station: 0.90 Km turnel between screens.
 - o Line under the Guadalmansa River, 0.12 Km tunnel between screens.
 - b Turnel on the Gradelmansa River-Estepona line 2.00 Km double turnel. Internal diameter 8.5 m. Construction method: TBM.
 - o Estepona Station: 0.7 Km hunnel between screens.
 - o Line under the Gala stream; 0.35 Km tunnel between screens.
- o Tunnel on the Gala stream-Estopona West station line: 1.4 Km single tunnel, double track. Internal diameter 10.60 m. Construction method: TBM.
- o Estapona Wast Station: 0.3 Km junnel between screens.
- o Shunting arm: 0.3 Km single tunnel, double track-internal clameter 10.60 m. Construction method: TBM.
- Depot fechnical branch: 2 km single-track mile tunnel.
- Number of viaducts: 1 viaduct on the technical branch over the River Padrón.
 - o Length: 106.56 m.
 - o 3 spans (28.28 + 50 + 28.28).
 - o Type: metal U-shaped section structure, variable edge and upper projection over the deck.
 - o Foundation: deep, with 1.5 m capped piles.
 - o Piles: vaulted, twin-shaft, 2 x 2 m.

Public Works Agency, Regional Government of Andalusia

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Number of stations: 4, all underground:

- o Benamara Station: 1 central platform 200 m long.
- o Cancelada Station: 1 central platform 200 m long.
- o Estapona Station: 1 central platform 400 m long and 2 lateral platforms 200 m long.
- o Estepona West Station: 2 lateral 200 m long platforms.
- Rail operation: Services with which the line is to be operated (passengers);
 - o High-performance commuter (160 Km/h).
 - o Regional express (200-220 km/h).
 - o Main line.

Estimated station traffic:

Station

Total annual passenger demand Peak-time traffic

Benamara

1,317,000 passengers/year 505 passengers/h

Cancelada

878,000 passengers/year

337 passengers/h

Estepona

3,815,000 passengers/year

1462 passangers/h

Estepona West

1,685,000 passengers/year

646 passengers/h

- Workshop and depot facilities:
 - o Terracé some 350 m long and 110 m wide.
 - o Three tracks in covered workshop building.
 - o Parking space for 10 trains 200 m long, plus storage space for a seasonal train.
 - o Auxiliary services: offices, changing facilities, parking, warehouse building.

Rail installations:

- o Electrification: 1x25 kV 50 Hz overhead line.
- Contact overhead line: single polygonal braced CCS-220 catenary.
- o Main operating system, Standard ERTMS/ETCS European level 2 (GSM-R) train protection system, level 1 as secondary operating system and ASFA system as third operating level.
- Signalling facilities: Electronic blocks, pooling block (BVB), audio-frequency track circuits, block relations with the other line sections.
- Fixed communications: fibre-optic cables, voice and data transmission. GSM-R (train-ground) radio communications.
- o Remote command and CRC in Antequera.

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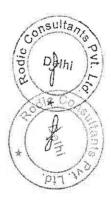
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- o Drainage
- o Tunnels, shafts and galleries
- o Terrain treatments and instrumentation
- o Station architectural design
- o Structural calculation of stations and installations.
- o Urban Integration
- o Track superstructure
- Rail installations (electrification, signalling and communications) and non-rail facilities in stations and tunnels (electrical, mechanical, control, ventilation, security, fire-fighting, signalling).
- a Environmental study -
- o Traffic diversions
- o Restoration of services
- o Coordination with other bodies and services
- o Expropriations and indemnification
- o Redrawing
- o Project plan
- o Contractor classification
- o Price justification
- o Budget to Report to the Administration
- o Price review formula
- o Evaluation of trials
- o Security and Heath Study
- o Special Technical Specifications
- o Budget
- o Construction plans
- 8 The work was done in accordance with the specifications and to this Body's entire satisfaction, without fines or penalties.

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Evaluation of Technical Proposal - Summary of Key Personnel

Consultancy Services for Feasibility Study, Preparation of Detailed Project Report and providing pre-construction services for up gradation of newly declared National Highway, Tharthri-Kahaljugasar-Kilhotran (70 km, District- Doda, J&K) to Makhan-Chachool (10 km, District- Chamba, Himachal Pradesh) to 2-lane with paved shoulder including Feasibility study cum DPR of Tunnel of approx. length 4 km near Kahaljugasar in the state of Jammu and Kashmir.

| S. No. | Position | Total | 1 | | | 2 | | | 3 | | | | | | |
|--------|---|-------|--|----------|-----------------------|--|-----------------------------|-----------------------------------|---|-------------------------------|-------|------|------------|----|-----|
| | | marks | M/s RODIC CONSULT Joint Venture with EUROESTUI | TPF GETI | | M/s Almondz Global Limited (A Wholly Ow Almondz Global Secu Joint venture with INGENIERI | ned Su rities Li SUBT | bsidiary of imited) In ERRA | M/s Kunhwa Engineering & C in association with Satvig S Private Limit | urvey Er | | | | | |
| | | | Name | % | Marks | Name | % | Marks | Name | % | Marks | | | | |
| 1 | Team Leader Cum Senior Tunnel Expert | 10 | Ratneswar Saikia | 95 | 9.5 | SATISH NAG | 90 | 9 | Ranjit Singh Chaudhary | 85 | 8.5 | | | | |
| 2 | Tunnel Design Engineer | 6 | Marcelo Usabiago Lasa | 95 | 5.7 | Jose Miguel GALERA | 95 | 5.7 | KIM, YOUNG GEUN | 37 | 2.22 | | | | |
| 3 | Senior E&M Expert | 6 | Sanjay Mittal | 85 | 5.1 | Bhanoo P. Verma | 83 | 4.98 | Maheshwar Prasad Singh | 81.5 | 4.89 | | | | |
| 4 | Senior Bridge Engineer | 6 | Daljeet Singh Arora | 95 | 5.7 | Ramesh Chand Gupta | Ramesh Chand Gupta 77 4 | | NANDADULAL DASGUPTA | 87 | 5.22 | | | | |
| 5 | Material Cum Geotechnical Engineer | 6 | Raj Kumar Dhawan | 95 | 5.7 | Bharat Sharma | 85 | 5.1 | Manoj Kumar Singh | 90 | 5.4 | | | | |
| 6 | Senior Survey Engineer | 5 | Sudipta Chatterjee | 92 | 4.6 | Chain Singh | 94 | 4.7 | Manohar Singh Bisht | 85 | 4.25 | | | | |
| 7 | Environment Expert | 5 | Sunil Kumar | 95 | 4.75 | Dr. Ujwal Gulabrao Patil | 89 | 4.45 | ANIL KUMAR PANDA | 85 | 4.25 | | | | |
| 8 | Traffic Safety Expert 3 | | 2016 BECKER 2006 XEEDS - 12000 | | Traffic Safety Expert | 3 | Col Rajinder Kumar | 95 | 2.85 | VENKATARAMAN KRISHNAMURTHY | 95 | 2.85 | Utpal Deka | 90 | 2.7 |
| 9 | Quantity Surveyor Cum Documentation Expert | 3 | Anil Kumar Singh | 100 | 3 | C.P.Tiwari | 94 | 2.82 | Raman Manohar | 87 | 2.61 | | | | |
| | Total | 50 | | | 46.9 | | | 44.22 | | | 40.04 | | | | |



Consultancy Services for Feasibility Study, Preparation of Detailed Project Report and providing pre-construction services for up gradation of newly declared National Highway, Tharthri-Kahaljugasar-Kilhotran (70 km, District-Doda, J&K) to Makhan-Chachool (10 km, District-Chamba, Himachal Pradesh) to 2-lane with paved shoulder including Feasibility study cum DPR of Tunnel of approx. length 4 km near Kahaljugasar in the state of Jammu and Kashmir.

Slevant Experience of Key Personnel

| leva | ant Experience of Key Personnel | | 11 | | 12 | | 13 | |
|--------|---|--|--|-----|---|--|---------------------------|----|
| Levi | Traffic and Safety Expert | Yes/No M/s RODIC CONSULTANTS PVT. LTD In Joint | | nt. | M/s Almondz Global Infra-Consultant Limited | M/s Kunhwa Engineering & Consulting Co. Ltd. in | | |
| S. No. | | Yes/No | Venture with TPF GETINSA EUROESTUDIOS S.L. Col Rajinder Kumar | | Owned Subsidiary of Almondz Global Securities | association with Satvig Survey Engineers Private | | |
| | Name of Key Personnel | | | | VENKATARAMAN KRISHNAMURT | THY | Utpal Deka | |
| 1 | General Qualification | 25 | 20 |) | 0 | 25 | 0 | 25 |
| (i) | Degree in Civil Engineering | 20 | 20 | | | 20 | | 20 |
| (ii) | Post graduation in Traffic Engineering /Transportation Engineering / Transportation Planning | 5 | 0 | | | 5 | | .5 |
| П | Relevant Experience & Adequacy for the Project | 65 | 65 | 5 | | 65 | | 65 |
| a) | Total Professional Experience | 14 | 14 | 1 | | 14 | | 14 |
| | <10years (Points- 0) | | | | | | | |
| | 10-15 years (Points-11) | | | | | | | |
| | > 15-20 years (Points –13) | | | | | | | |
| | >20 years (Points –14) | | 34 Year 14 | _ | 27 Years 2 Month | 14 | 15 Years 3 month | 14 |
| b) | Experience in Highway Projects – Experience on Similar Projects (2/4/6 laning of NH/SH/Expressways) | 23 | 23 | 3 | | 23 | | 23 |
| | < 5 years (Points-0) | 23 | | | | | | - |
| | < 5 years (Points-0) 5-7 years (Points 17) | | | | | | | |
| | > 7-10 years (Points- 21) | | | | | | | |
| | > 10 years (Points- 23) | | More than 10 Year 23 | 3 | More than 10 years | 23 | 13 years 3 Month | 23 |
| c) | Experience as Traffic and Safety Expert / Traffic Engineer or in Similar Capacity in Highway Projects (2/4/6 laning of NH/SH/Expressways) (Minimum aggregate length 80 km) | 28 | 28 | 3 | | 28 | | 28 |
| | < 80 Km (Points- 0) | | | | | | | |
| | 80 Km- 150 Km (Points 22) | | | | | | | |
| | > 150 Km- 250 Km (Points 25) | | | | | | | 1 |
| | >250 Km (Points 28) | | More than 250 Km 28 | 3 | More than 250 Km | 28 | 535 Km | 28 |
| ш | Employment with the Firm | 10 | 10 |) | | 5 | | 0 |
| | < 1 year (Points- 0) | | | | | | | |
| | 1-2 years (Points- 5) | | | | 01 Year 8 Month | 5 | | |
| | more than 2 years (Points- 10) | | More than 2 Year 10 | _ | | | Not employement with firm | 0 |
| | Total Score | 100 | 95 | 5 | | 95 | | 90 |



Consultancy Services for Feasibility Study, Preparation of Detailed Project Report and providing pre-construction services for up gradation of newly declared National Highway, Tharthri-Kahaljugasar-Kilhotran (70 km, District- Doda, J&K) to Makhan-Chachool (10 km, District- Chamba, Himachal Pradesh) to 2-lane with paved shoulder including Feasibility study cum DPR of Tunnel of approx. length 4 km near Kahaljugasar in the state of Jammu and Kashmir.

Relevant Experience of Key Personnel

| | Senior Tunnel Design Expert | | Senior Tunnel Design Expert | | 2 | | 3 | | | |
|-----------|---|------|-----------------------------|----|---|-----------------|--|----|--|--|
| S. No. | | | | | M/s Almondz Global Infra-Consultant Limit Owned Subsidiary of Almondz Global Securit Joint venture with SUBTERRA INGENI | ies Limited) In | M/s Kunhwa Engineering & Consulting Co. Ltd. in association wit Satvig Survey Engineers Private Limited | | | |
| | Name of Key Personnel | | Marcelo Usabiago Lasa | | Jose Miguel GALERA | - | KIM, YOUNG GEUN | | | |
| 1 | General Qualification | 25 | | 25 | | 20 | | 20 | | |
| (i) | Graduate in Civil | 20 | | 20 | H | 20 | | 20 | | |
| (ii) | Post Graduation in Tunnel/ Structure Engineering | 5 | | 0 | | 0 | | 0 | | |
| П | Relevant Experience and Adequacy for the Project | 65 | | 65 | | 65 | | 7 | | |
| a) | Total Professional Experience | | | 14 | | 14 | | | | |
| | < 15 years (Points- 0) | | | | | | 3 Years 6 Month | 0 | | |
| | 15-20 years (Points -11) | 14 | | | | | | | | |
| | >20-25 years (Points –13) | | | | | | | | | |
| | >25 years (Points –14) | | 32 Years | 14 | 27 Years | 14 | | | | |
| b) | Experience in Tunnel projects | 23 | | 23 | | 23 | | 0 | | |
| i) | Experience in Planning, preparation and design of | | | | | 15 | | | | |
| | Tunnel projects (Road/ Rail/ Metro) | | | | | 15 | | | | |
| | < 10 years (Points- 0) | 15 | | | | | 3 Years 6 Month | 0 | | |
| | 10- 15 years (Points- 11) | | | | | | | | | |
| | >15- 20 years (Points- 13) | | | | | | | | | |
| | >20 years (Points-15) | | 27 year 6 Month | 15 | 23 year 2 Month | 15 | | | | |
| (ii) | Experience in DPR preparation and design of Tunnels | 8 | | | | 8 | | 8 | | |
| | of minimum 1.6 Km length | | | - | | | | | | |
| | < 4 Projects (Points-0) 4 or more Projects (Points-8) | | 8 projects | 8 | 17 projects | 8 | 2 Tunnel Projects | 8 | | |
| (c) | Experience in similar capacity | 28 | | 28 | 17 projects | 28 | 2 Tunnet Projects | 7 | | |
| i . | In feasibility of DPR/IC/Construction Supervision of | 19 | | 20 | | 20 | | / | | |
| ١., | major Tunnel (Road/Rail/Metro) projects in Similar | 12 | | | | 19 | | 0 | | |
| | Capacity | | | | | 3333 | | | | |
| | <7 years (Points- 0) | | | | | | Lesss than 7 year | 0 | | |
| | 7-10 years (Points- 14) | | | | | | | | | |
| | >10-13 years (Points- 17) | | | | | | | | | |
| | >13 years (Points-19) | | 16 year 8 Month | 19 | 19 Years | 19 | | | | |
| ii. | Experience in Design of Major Tunnel Projects | 9 | | | | 9 | | 7 | | |
| | <4 projects (Points- 0) | | | | | | | | | |
| | 4 to 6 projects (Points- 7) | - | | | | | 4 Tunnel Projects | 7 | | |
| | >6 projects (Points- 9) | - 10 | 8 projects | 9 | More than 6 Projects | 9 | | | | |
| 3 | Employment with the Firm | 10 | | | | 10 | | 10 | | |
| | < 1 year (Points-0) | | | | | | | | | |
| | 1-2 years (Points- 5) | | | | | | | | | |
| | more than 2 years (Points- 10) | | More than 2 year | 10 | More than 2 year | 10 | More than 2 year | 10 | | |
| | Total Score | 100 | | 95 | | 95 | | 37 | | |



Consultancy Services for Feasibility Study, Preparation of Detailed Project Report and providing pre-construction services for up gradation of newly declared National Highway, Tharthri-Kahaljugasar-Kilhotran (70 km. District- Doda. J&K) to Makhan-Chachool (10 km. District- Chamba, Himachal Pradesh) to 2-lane with paved shoulder including Feasibility study cum DPR of Tunnel of approx, length 4 km near Kahaljugasar in the state of Jammu and Kashmir.

| Evaluation | for Material testing, survey and | l investigation, ec | uipment and | software proposed to be u | sed | | |
|------------|--|---------------------|-------------|--|--|--|--|
| S. No. | Description | Maximum marks | | M/s RODIC CONSULTANTS PVT. LTD In Joint Venture with TPF GETINSA EUROESTUDIOS S.L. | M/s Almontz Global Infra- Consultant Limited (A Wholly Owned Subsidiary of Almontz Global Securities Limited) Il Joint venture with SUBTERRA INGENIERIA S. L. | M/s Kunhwa Engineering & Consulting Co. Ltd. in association with Sarvig Survey Engineers Private Limited | Romark |
| | | | | Marks | Marks | Marks | |
| | Availability of in-house | | | Sidiks | MidIKS | MINIS | |
| | material testing facility Available | | | | | | |
| | | | 2 | | 2 | | M/s Kunhwa Engineering |
| 1 | 2 Outsourced | 2 | 1 | 1 | | t | was Auminia Engineering. The laboratory has been proposed to be used at IIT Guwahati which is located more than 1000 Kin away from start of the project location. The information furnished is does not seems to be correct as per clause 3.2.3 suitable nearby laboratory should proposed before contract agreement is executed. In case bidder emerges as preferred bidder, ne should have to give name of nearby laboratory. |
| 1.3 | Not Available | | | | | -11/10-10-10-10-1 | |
| | Field Investigation facilities | | 0 | | | | |
| | (S) | | | | | | |
| 2,1 | (a) Geotechnical Investigation | | | | | | |
| 2.1.1 | 2.1.1 Available | 1.5 | 1.5 | | 1.5 | | |
| 2.1.2 | 2.1.2 Outsourced | | 0.75 | 0.75 | | | |
| 2.1.3 | 2.1.3 Not Available | | 0 | | | 0 | M/s Kunhwa Engineering |
| 2.2 | (b) Pavement Investigation | | | | | 0 | The hard copy submission were not found attached in the proposal |
| 2.2.1 | 2.2.1 Available | 1.5 | | | | | |
| | | 1.5 | 1.5 | | 1,5 | | |
| 2.2.2 | 2,2,2 Outsourced | | 0.75 | 0.75 | | | |
| 2.2.3 | 2.2.3 Not Available | | 0 | | | 0 | M/s Kunhwa Engineering The hard copy submission were not found attached in the proposal |
| 3 | Office Equipment and software | | | | | | |
| 3.1 | Available | | 3 | | 3 | | |
| 3.7 | Outsourced | 3 | 1.5 | 3 | | 3 | |
| 3.3 | | 1 | 0 | | | | A CONTRACTOR OF THE CONTRACTOR |
| 4 | Experience in LiDAR or equivalent technology for topographic survey | | | | | | |
| 4.1 | 1 project | , t | I | | | | |
| 4.2 | 2 projects | | 2 | t | | | |
| 4,3 | 3 projects | | 3 | 1 | | | |
| +:+ | 4 or more projects | | 3 | | 1 | 0 | Experience of LiDAR is not found on Infracon website |
| 5 | Experience in using GPR and Induction Locator or equivalent technologies for detection of sub-surface utilities | | | | | | |
| 5.1 | 1 project | 4 | 1 | | | | |
| | 2 projects | | 2 | 1 | | 4 | |
| 5.3 5.4 | 3 projects 4 or more projects | - | 3 | , red | 3 * | | * As per Annexure-B |
| | Experience in digitization of cadastral maps for land acquisition | | , | | | | |
| 6.1 | 1 project | 4 | 1 | | | | |
| | 2 projects | | 2 | 3 | | 4 | |
| 6.3 | 3 projects 4 or more projects | - | 3 4 | | 3* | | * As per Annexure-B |
| 0.4 | Total | 20 | * | | | | |
| | Service ED | 10.000 | | 10.5 | 18 | 12 | |

OFFICE OF THE EXECUTIVE ENGINEER, PWD NH Dn. Ist JAIPUR

3339

Dated :- 12-1-18

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Marc Technocrats Pvt Ltd in JV with Almondz Global Infra-Consultant Limited, has completed the Feasibility study as a part for the "Consultancy Services for Feasibility Study/Detailed Project Report for Construction of Two Lane with Paved Shoulder Newly Proposed National Highway Roads (Approved "In Principle" for Declaration as National Highways) From Junction of NH-48 Near Dudu Connecting Naraina, Sambhar, Nawan, Narayanpura, Kuchaman City, Budsu, Toshina and Terminating At Chhoti Khatu Near NH-458" in the state of Rajasthan on EPC mode.

Major Highlights of the projects

| S.No | Particulars | | | | | | | |
|------|-------------------------------------|---|--|--|--|--|--|--|
| 1 | Project Length | Description | | | | | | |
| 2 | Project Lane | 130 kms | | | | | | |
| - | rioject Lane | 2-Lane:116 kms | | | | | | |
| 3 | 1 | 4-Lane: 14 kms | | | | | | |
| , 1 | Major Bridges/Structures | . #Major Brldge- | | | | | | |
| 1 | | 1. Length 180 mt. | | | | | | |
| | | | | | | | | |
| 1 | | #Minor Bridges : 4 in Nos | | | | | | |
| | _* | #LVUP: 01 Nos. and CUP: 01 Nos | | | | | | |
| | Estimated Project Cost (INR Crores) | | | | | | | |
| 1 | Start date of Consults | INR 456 Crores | | | | | | |
| - | Start date of Consultancy works | June 2017 | | | | | | |
| | Value OF Consultancy Services | 2,23,10,500/-(Rupees Two Crores Twenty Three Lakhs Ten Thousand and Five Hundred Only) | | | | | | |

Major Scopes of Services Includes:-

Detailed Description of Services provided by the Firm

- Review of all available reports and published information about the project road and the project influence ·ii.
- Environmental and social impact assessment, including such as related to cultural properties, natural habitants, involuntary resettlement etc. lii. Detailed reconnaissance;
- Identification of possible improvements in the existing alignment and bypassing congested locations with iv. alternatives, evaluation of different alternatives comparison on techno-economic and other considerations and recommendations regarding most appropriate option;
- Traffic studies including traffic surveys and Axle load survey and demand forecasting for next thirty years; ...Inventory and condition surveys for road; .. vi.
- Inventory and condition surveys for bridges, cross-drainage structures, other Structures, river Bank training/Protection works and drainage provisions;
- Detailed topographic surveys using mobile LIDAR Technology equipped with minimum Engineering Grade System or any other equivalent Technology having output accuracy more than (a) Specified in IRC SP 19 (b) Total Station (c) GPS/DGPS. GPS & induction Locator Technology for detection of sub-surface utilities.

Digitization of cadastral maps for Land Acquisiton.

Pavement investigations;

Sub-grade characteristics and strength: investigation of required sub-grade and sub-soil characteristics xi. and strength for road and embankment design and sub soil investigation;

Identification of sources of construction materials;

xiii. Detailed design of road, its x-sections, horizontal and vertical alignment and design of embankment of height more than 6m and also in poor soil conditions and where density consideration require, even lesser height embankment. Detailed design of structures preparation of GAD and construction drawings and cross-drainage structures and underpasses etc. xiv.

Identification of the type and the design of intersections; XV.

Design of complete drainage system and disposal point for storm water xvi

Value analysis / value engineering and project costing;

Economic and financial analyses; xvii.

Contract packaging and implementation schedule. xviii.

Strip plan indicating the scheme for carriageway widening, location of all existing utility services (both xix. overand underground) and the scheme for their relocation, trees to be felled, transplanted and planted and land acquisition requirements including schedule for LA: reports documents, digitalization of Cadastral maps and drawings arrangement of estimates for cutting/ transplanting of trees and shifting of utilities from the concerned department;

To find out financial viability of project for implementation and suggest the preferred mode on which the

xxi. Tie-in of on-going/sanctioned works of MORT&H/ NHAI other agencies. xxii.

Preparation of utility shifting plan using Ground Penetration Radar System (GPRS) for Detection of

This is to certify that M/s Marc Technocrats Pvt Ltd in JV with Almondz Global Infra-Consultant Limited

1. the Topographic surveys using LIDAR equipped with minimum Engineering Grade System supported by DGPS, Total Station and Satellite Imagery. having output accuracy more than (a) Specified in IRC SP 19. Utility Shifting Plan was prepared using Ground Penetration Radar System (GPRS) for Detection of underground utilitles.

Prepared the Land Plan for Land Acquisition Activity by digitization of cadastral maps.

This certificate is being issued on the request of the Consultants for the bidding purposes.

Executive Engineer VD NH Division Ist Jaip.ur



Consultancy Services for Feasibility Study, Preparation of Detailed Project Report and providing pre-construction services for up gradation of newly declared National Highway, Tharthri-Kahaljugasar-Kilhotran (70 km, District- Doda, f&K) to 'akhan-Chachool (10 km, District- Chamba, Himachal Pradesh) to 2-lane with paved shoulder including Feasibility study cum DPR of Tunnel of approx. length 4 km near Kahaljugasar in the state of Jammu and Kashmir.

Relevant Experience of Key Personnel

| | Material-cum-Geo-technical Engineer- Geologist | Yes/No | 11 | | 12 | | 13 | |
|-------|---|--------|---|---|---|----------|--------------------------|------|
| S. No | Description | | M/s RODIC CONSULTANTS PVT. LTD In Join TPF GETINSA EUROESTUDIOS S. | M/s Almondz Global Infra-Consultant I Wholly Owned Subsidiary of Almond Securities Limited) In Joint venture with INGENIERIA S. L. | M/s Kunhwa Engineering & Consulting Co. Ltd. i association with Satvig Survey Engineers Private Limited | | | |
| | Name of Key Personnel | | Raj Kumar Dhawan | | Bharat Sharma | | Manoj Kumar Singh | |
| 1 | General Qualification | 25 | | 20 | | 20 | | 25 |
| (i) | Degree in Civil Engineering/M. Sc. in Geology | 20 | | 20 | | 20 | | 20 |
| (ii) | Post Graduation in Foundation Engineering/Soil Mechanics/Geo tech Engineering | 5 | | | | | | 5 |
| II | Relevant Experience & Adequacy for the Project | 65 | | 65 | | 65 | | 65 |
| a) | Total Professional Experience | 14 | | 14 | | 14 | | 14 |
| | <15 years (Points- 0) | | | | | | | |
| | 15-20 years (Points- 11) | | | | | | | |
| | > 20-25 years (Points –13) | | | | | | | |
| | >25 years (Points –14) | | 35 year 4 Month. | 14 | 22 Year | 14 | 25 Year | 14 |
| b) | Experience in Highway Projects | 23 | | 23 | | 23 | | 23 |
| i) | Experience in Highway project: In Similar porjects (2/4/6 | 23 | | | | | | |
| | laning of NH/SH/Expressways) in design and or | | | 23 | | 23 | | 23 |
| | construction/construction supervision | | | | | | | |
| | < 8 years (Points- 0) | | | | | | | |
| | 8-10 years (Points 17) | | | | | racelle. | | |
| | > 10-12 years (Points- 21) | | | | | | | |
| | > 12 years (Points- 23) | | 28 Year 3 month | 23 | 12 Years 6 Month | 23 | 14 Year 7 Months | 23 |
| c) | Experience as Material cum Geotechnical Engineer or in | 28 | | | 12 Tellis o Month | 23 | 14 Teat / Worths | 23 |
| | Similar Capacity for project preparation of highway project (2/4/6 laning of NH/SH/Expressways) (Minimum Aggregate length of 80 Km) | | | 28 | | 28 | | 28 |
| | < 80 Km (Points- 0) | | | | | | | |
| | 80 Km- 150 Km (Points 22) | | · · · · · · · · · · · · · · · · · · · | | | | | 1 |
| | > 150 Km- 250 Km (Points 25) | | | 8000 | | | | 1 |
| | >250 Km (Points 28) | | More tha 250 km length of Road | 28 | More than 250 Km length of Road | 28 | More than 250 Km length | 28 |
| Ш | Employment with the Firm | 10 | | 10 | | | | |
| | < 1 year (Points- 0) | | | | Not Employemnt with firm | 0 | Not Employemnt with firm | 0 |
| | 1-2 years (Points- 5) | | | | | | | 1000 |
| - | more than 2 years (Points- 10) | | more than 2 years | 10 | | | | |
| | Total Score | 100 | | 95 | | 85 | | 90 |
| | Total Score | 100 | | 95 | | 85 | | |



Consultancy Services for Feasibility Study, Preparation of Detailed Project Report and providing pre-construction services for up gradation of newly declared National Highway, Tharthri-Kahaljugasar-Kilhotran (70 km, District- Doda, J&K) to Makhan-Chachool (10 km, District- Chamba, Himachal Pradesh) to 2-lane with paved shoulder including Feasibility study cum DPR of Tunnel of approx. length 4 km near Kahaljugasar in the state of Jammu and Kashmir.

Relevant Experience of Key Personnel

| | Tunnel Ventilation cum E&M Expert | 1 | 2 | | 3 | | | |
|-----------|--|-----|---|----|---|------------------------|--|------|
| S. No. | . Description | | M/s RODIC CONSULTANTS PVT. LTI Venture with TPF GETINSA EUROESTU | | M/s Almondz Global Infra-Consultan Wholly Owned Subsidiary of Almon Securities Limited) In Joint ventu SUBTERRA INGENIERIA S | ndz Global ire with | M/s Kunhwa Engineering & Consulting Co. Ltd. it Satvig Survey Engineers Private Lim | |
| | Name of Key Personnel | | Sanjay Mittal | | Bhanoo P. Verma | | Maheshwar Prasad Singh | |
| I | General Qualification | 25 | | 20 | 0 | 25 | 8 | 20 |
| (i) | Degree in Electrical/ Mech Engineering | 20 | Degree in Electronic and Power | 0 | | 20 | | 20 |
| (ii) | Post Graduation Degree in Electrical/ Mech Engineering | 5 | | 0 | | 5 | | 0 |
| П | Relevant Experience and Adequacy for the Project | 65 | | 65 | 0 | 58 | | 61.5 |
| a) | Total Professional Experience | 14 | | 14 | | 14 | | 14 |
| | < 15 years (Points- 0) 15-20 years (Points -11) | / | | | | | | |
| | >20 years (Points –14) | | 22 YEARS 9 MONTHS | 14 | 31 year 9 Month | 14 | 40 Years 9 Month | 14 |
| b) | Experience in Tunnel Projects | 23 | | 23 | | 23 | | 23 |
| i) | Experience on Similar Projects (Road/ Rail/Metro Tunnel projects < 10 years (Points- 0) 10-12 years (Points- 17) > 12-15 years (Points- 19) | - | | | | | | |
| | > 15 years (Points- 23) | | 18 Years 15 Days | 23 | 15 Year 3 month | 23 | 17 Years 9 Month | 23 |
| c) | Experience as E & M Expert or in Similar Capacity in Major Tunnel | 28 | | 28 | | 21 | | 24.5 |
| | (No. of Projects) | | | | | | | |
| | 2-4 projects (Points- 21) 4-6 projects (Points- 24.5) > 6 projects (Points- 28) | | 7 nos of major tunnel project | 28 | 4 Nos. of project | 21 | 5 Nos of project | 24.5 |
| Ш | Employment with the Firm | 10 | | 0 | | 0 | | |
| | < 1 year (Points- 0) 1-2 years (Points- 5) | | No employment with firm | 0 | No employment with firm | 0 | No employment with firm | 0 |
| | more than 2 years (Points- 10) | | | 0 | | | | |
| | Total Score | 100 | | 85 | | 83 | | 81.5 |