

Name of work : Operation and maintenance for Vellanad-Chettachal Road (21.90 km) for the year 2022-23 under Rehabilitation of State Highways and Major District Roads-Package B

**INKEL LIMITED**

Door No. 7/473ZA – 5 & 6, 2nd Floor, Ajiyal Complex,  
Kakkanad, Cochin – 682030  
(Phone: 0484 - 2978101)

No. NIQ/INKEL/EKM/2022-23/162

Date: 20<sup>th</sup> April 2022

**NOTICE INVITING QUOTATION**

**Name of Work: Maintenance of Vellanad - Chettachal Road (21.90 km) for the year 2022-23 under Rehabilitation of State Highways and Major District Roads-Package B**

Sealed quotations are invited by INKEL Limited (on behalf of INKEL-EKK Roads Pvt Ltd), having its registered office at Door No. 7/473ZA – 5 & 6, 2nd Floor, Ajiyal Complex, Kakkanad, Cochin 682030, so as to reach the undersigned on or before **30/04/2022** up to 2.30pm for carrying out the Maintenance of Vellanad - Chettachal Road (21.90 km) for the year 2022-23. The quotations received will be opened at 3.00pm on the same day. The description of works to be carried out are listed in the attached Bill of Quantities. The rates quoted shall be final and all-inclusive and nothing extra will be paid on any account.

**Specific Conditions**

- Rates quoted shall be inclusive of GST, PF, ESI, Insurance charges etc.
- Routine maintenance items are to be carried out at site on daily basis.
- Supply of labour for PMU is @ 5 Nos labour per day on all working days except Sundays.
- For Supply of labour , working time is from for 8 am to 5: 30 pm.
- Accommodation & conveyance of labour are in Contractor's scope.
- Safety of workers and surrounding shall be the responsibility of the Contractor.
- Necessary barricades, warning boards , etc are to be provided wherever required.
- Necessary tools and plants required for the work are to be provided by the Contractor .

**1. Eligibility Criteria**

The intending bidders should have completed at least one work of similar nature in highways – National or State highways -within the last 3 years. Experience certificate & Work order issued by the Client /Govt /Semi Govt Agency shall be produced for this purpose. Bids of applicants without experience as mentioned above shall be summarily rejected.

**2. Issue Of Quotation**

The intending bidder, who has the requisite experience in this field can download the quotation form from our website [www.inkel.in](http://www.inkel.in)

**3. Item Rate Contract**

This work shall be item rate contract inclusive of all taxes. The contractor's rates must be firm and include the cost of transportation of materials to the site.

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**4. Location of Site**–Vellanad - Chettachal Road (21.90 km)

5. The intending bidders should visit the site before submission of quotation. For site visit, contact Ph-8606974551

6. The successful bidder has to sign an agreement with M/s INKEL Limited on non-judicial stamp paper worth Rs.200/- within 7 days of receipt of the acceptance letter.

**7. Performance Guarantee and Performance Security Deposit**

Not Applicable

**8. Period Of Construction**

The Contract period is 12 months . The Contractor has to employ their resources and carry out the routine maintenance works throughout the period of 12 months.

The work items mentioned in the schedule are to be executed as per the approved Maintenance schedule and evenly over a period of 12 months.

Commencement of the work shall be considered from the 7th day of receipt of acceptance letter.

**9. All Inclusive Rates**

The contractor's rates must be firm and include the cost of transportation, loading/unloading of materials to the site, statutory levies & applicable cess etc and the fixing or placing in position for which the item of work is intended to be operated. **The rates quoted by the contractor shall be firm throughout the contract period and there shall be no upward revision of the rates quoted by the contractor for any reasons whatsoever.**

**10. Compensation For Delay**

Not Applicable

**11. Defects Liability Period**

Not Applicable

**12. Co-Ordination Of Work**

The works are to be executed as per the direction of Road Maintenance Manager , INKEL Ltd . The Contractor has to employ necessary qualified supervisory staff minimum 1 (one) number full time at site for the entire contract period.

**13. Water And Electricity**

The contractor shall make his own arrangement for water and electricity required for the work. INKEL shall take no responsibility for the supply of either electricity or water.

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**14.** The site should be kept clean and the surplus materials and unwanted debris should be removed / disposed to a proper place by the contractor or moved to a location as directed by INKEL.

**15. Payment terms**

All payments will be processed within 15 days thereof on submission of correct invoice and bill by you , along with the payment certificate issued by Project Manager ,INKEL. Also along with the Invoice you should submit details of proof of ESI & EPF remittance of the workers engaged for this work, ECR Challan, Wage Register, Muster Roll Copy register of each employee worked for the assignment as certified by Project Manager , INKEL.

Managing Director  
INKEL Limited  
Cochin -682030

**Operation & Maintenance of Vellanad-Chettachal Road RICK Package B for the  
year 2022-23**

SI No	Description	Unit	Qty	Rate	Amount
<b>A</b>	<b>Maintenance works &amp; PMU Labour</b>				
<b>1</b>	<b>VEGETATION CLEARANCE</b>				
1	Clearing vegetation in shoulders and slide slopes				
a	Supply of Grass cutter for Clearing grass including grasscutting machine , fuel , thread etc.	Hrs.	3136.00		
2	Branch cutting of trees				
a	Tree cutter with Chainsaw etc	Days.	15.00		
<b>2</b>	<b>SHOULDER CLEARANCE</b>				
1	Maintenance of Earthen Shoulder (filling with fresh soil) Making up loss of material/ irregularities on shoulder to the design level by adding fresh approved soil and compacting it with appropriate equipment.				
a	Supply of good quality murrum/Earth including loading conveyence and unloading at site	Cum	160.00		
b	Labour for spreading & compaction	Days.	64.00		
c	Plate compactor for shoulder stabilization	Days.	32.00		
2	Shoulder concreting with Plain cement concrete 1:2:4 nominal mix in foundation with crushed stone aggregate 20 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.	Cum.	40.00		
<b>3</b>	<b>DRAINAGE WORKS</b>				
1	Earthen Drains cleaning and restoration				
a	Supply of labours with tools for existing earthen Drain cleaning	Days.	125.00		
b	Supply of JCB for new and filled up earthen drains excavation	Hrs.	45.00		
c	Supply of Tipper( 150ft) for debris shifting	Days.	11.00		
2	Supply of labor for cleaning of RCC drain under footpath by manual means, water jetting etc including removal of coverslab	Nos.	94.00		
3	Supply of labour for Removal and refixing of RCC cover slabs over drain including cleaning	Nos.	147.00		
4	Supply of labour for removal of earth from the choked RCC drain and disposing it on the valley side manually	Nos.	323.00		

SI No	Description	Unit	Qty	Rate	Amount
5	Construction , conveyance and fixing of precast RCC cover Slab of M20 Grade for drain including steel reinforcement, aggregate size not exceeding 12 mm, true to line and grade, complete as per approved drawings and technical specifications.	Cum.	3.00		
<b>4</b>	<b>CULVERTS CLEANING</b>				
1	Cleaning of vegetation & culvert catchpit, Vents and stream cleaning				
a	Supply of Labours with tools	Days.	71.00		
<b>5</b>	<b>LAND SLIDE CLEARANCE</b>				
1	Clearance of land slides in soil and ordinary rock by JCB or equivalent and disposal of the same on the valley side	Hrs.	30.00		
<b>6</b>	<b>PAVEMENT WORKS</b>				
1	Filling Pot-holes and Patch Repairs with Bituminous concrete, 40mm. Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 503, back filling the pot holes with hot bituminous material as per clause 504, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2 - For grading I Material	Cum.	9.00		
2	Repairing poteholes with instant pothole repair mix.as per IRC :116-2014	Bags	25.00		
<b>7</b>	<b>REPAIR WORKS- STRUCTURES</b>				
1	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally for road work.Ordinary soil - Manual Means - (Depth upto 3 M)	Cum.	21.60		
2	Random Rubble Stone masonry (coursed/uncoursed) work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications	Cum.	54.00		
3	Plain cement concrete 1:2:4 nominal mix in foundation with crushed stone aggregate 20 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.	Cum.	5.40		

SI No	Description	Unit	Qty	Rate	Amount
4	Supplying, Bending and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications	Kg	100.00		
<b>8</b>	<b>PAINTING WORKS</b>				
1	Painting two coats after filling the surface with synthetic enamel paint with brushes, thinner, clamps etc on all shades on hand rails, posts, pipes etc				
a	Supply of Enamel Paint	Ltr	476.00		
b	Labour rate for Painting Hand rails with tools	RM	5239.00		
c	Supply of painters for Painting road sign posts	Days	17.00		
2	Providing and applying two coats of ready mixed exterior emulsion approved brand on masonry/concrete surface after thorough cleaning of surface to give an even shade				
a	Supply of Exterior emulsion paint at site with all tools. Brushes, thinner, cotton waste etc, for all painting works. Berger Promise or equivalent paint shall be used for all painting works such as Bridge & Culvert parapet, Footpath kerbs etc. painting works.	Ltr.	402.00		
b	Supply of painters for Parapets, guard stone etc with tools and accessories	Days.	124.00		
<b>9</b>	<b>ROAD FURNITURE REPAIR WORKS</b>				
1	Refurbishment of existing signboards of all size except gantry mounted ones to their original reflectivity & position by removing obstructions like overgrowth vegetation etc, if any, washing the signboards with water & soap solution to remove all dirt, oil etc., correcting any dislocations including minor repairs, replacement of lost nut and bolts etc complete.				
a	Supply Labour with tools.	Nos.	133.00		
2	Supply of welders for Repairing of Hand rails (including cutting, bending, welding, Painting and fixing) with consumables	Days.	50.00		
3	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads on Bituminous Surface @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes. Material and labour all complete.	Sqm	1045.00		

SI No	Description	Unit	Qty	Rate	Amount
4	Supply and fixing of Mexican grass at amaged landscapinf including labour materials all completed and maintenance for three month	Sqm.	105.00		
5	Supply of labours for turf maintenance with tools . Manur etc.	Nos.	120.00		
6	Supplying water through tanker for landscape watering including cost of water , transport and labour for watering all complete.	Ltr.	360000.00		
<b>10</b>	<b>SUPPLY OF MATERIALS FOR O&amp;M</b>				
1	Providing and fixing of retro- reflectorised cautionary, mandatory and infromatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc.	Nos.	15.00		
2	Providing and fixing reflective road studs (Raised Pavement Marker) of ' category A' made out of ASA/HIPS/ABS moulded body with shanks and conforming to ASTM D 4280, strong enough to support a load of more than 13.635 T when tested in accordance with ASTM D 4280, reflective panel confirming to ASTM D 788, and reflectivity conforming to clause 804.4. including installation, drilling, fixing with adhesive etc. with 2 years warranty for the road stud as well as for in field performance as per clause 804.7.3	Nos.	500.00		

SI No	Description	Unit	Qty	Rate	Amount
4	Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 811.3	Rm.	20.00		
5	Supplying and installation of delineator (Road way indicators) posts 80- 100cm high above ground level, painted black and white in 15 cm wide strips, fitted with min. 80 x 100 mm rectangular or 75 mm dia circular retro reflectorised panels at the top with minimum visibility of 300m with provisions to prevent edge lifting and vandalisam, and conforming to clause 806 , IRC-79 and the drawings including fixing to ground (The deleniator shall be of approved type as per specification)	Nos	50.00		
6	Repaire and Maintenance of LED solar street light	Nos.	142.00		
7	Repaire and Maintenance of LED solar blinker	Nos.	8.00		
8	Repaire and Maintenance of highmast light	Nos.	5.00		
9	Repair and maintenance of traffic signals	Nos.	1.00		
10	Supply and Installation of blinker light battery-26 AH , EXIDE or equivalent	Nos.	8.00		
11	Supply and Installation of solar battery -100 AH EXIDE or equivalent for solar street light	Nos.	10.00		
12	Supply of posts for sign board including fixing and painting	Nos.	25.00		
13	Supply of 300mm Plastic 'High Visibility' colored traffic cones.	Nos.	15.00		
<b>11</b>	<b>SUPPLY OF EQUIPMENTS FOR O&amp;M</b>				
1	Supply of JCB for cleaning works	Hrs.	45.00		
2	Supply of Tipper for cleaning works	Days.	8.00		
3	Supply of Concrete Breaker	Days.	10.00		
4	Supply of Diesel Generator of 5000 Watts including fuel	Days.	10.00		
<b>B</b>	<b>Part II : Supply Of PMU Labours</b>				



SI No	Description	Unit	Qty	Rate	Amount
1	Supply of Unskilled Labour for PMU including necessary tools , Equipments & Safety parameters.	Days.	1560.00		
<b>12</b>	<b>TESTING CHARGES</b>				
a	Total testing rates for the Road Roughness Index test on Project Road by an agency approved by the Independent Engineer (two-lane road), including transportation, toll charges, and submission of the test report etc.( 2 times in an year)	KM.	40.00		
b	Total testing charges for carrying out Benkelman Beam Deflection Test on Project Road by an agency approved by the Independent Engineer (two-lane road), including transportation, toll charges, and submission of the test report etc.	KM.	20.00		
	Total Maintenance works & PMU Labour				
<b>C</b>	<b>Project Vehicle Running expenses</b>				
1	Supply of Drivers for Project vehicle at RICK Ltd	Months	12.00		
2	Supply of diesel for Project vehicles	Ltr.	2000.00		
3	Routine services & Repair charges for Vehicles	Ls.	1.00		
<b>D</b>	<b>Patrol Maintenece Vehicle</b>				
1	Supply of Mahindra Pickup vehicle with Driver & fuel for one year	Months	Rate Only		
	<b>Grand Total (A+B+C+D)</b>				
	<b>Add 18% GST</b>				
	<b>G/Total</b>				