

**KRDCL HQ-ADMINISTRATION/KRDCL HQ
TENDER DOCUMENT**

Tender No: KRDCL_6_2021

Closing Date/Time: 05/10/2021 16:00

MANAGING DIRECTOR/KRDCL acting for and on behalf of The President of India invites E-Tenders against Tender No **KRDCL_6_2021** Closing Date/Time 05/10/2021 16:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	Design and Construction of Road Over Bridge, Approach roads in lieu of LC No.36 at Km.56/000-100 between Pudukad and Irinjalakuda Railway stations in Trivandrum Division and Road Under Bridge, Approach roads in lieu of LC No.12 at Km.65/600-700 at Nilambur yard in Palakkad Division including detailed soil exploration, survey, design, road diversion and all associated works on Engineering, Procurement and Construction mode		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	05/10/2021 16:00	Date Time Of Uploading Tender	23/07/2021 16:40
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	17/08/2021 11:00
Advertised Value	279453322.01	Tendering Section	GENERAL
Bidding Style	[Decision at Schedule level]	Bidding Unit	
Earnest Money /Bid Security (Rs.)	0.00	Validity of Offer (Days)	180
Obtain Bid Security Declaration in lieu of Bid Security	Yes		
Tender Doc. Cost (Rs.)	10000.00	Period of Completion	24 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	23/07/2021	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS-Construction of Superstructure and Allied works of Railway spans							35441095.00	Above/ Below/Par
		Lump Sum			35441095.00	AT Par	35441095.00	
1		<p>Description :- Construction of composite superstructure for Railway spans (1 x 36m+ 1 x 18m effective spans) as per the approved General Arrangement Drawing (GAD) (Drg.No:SR/CN/ERS/20-2019/ALT-1) and as per the conditions and technical specifications in this contract including the cost of all men, machinery, materials, tools & plants etc. complete as per the direction of Authority. The scope of the work generally includes the following:- i.The lump sum rate quoted in this Schedule will cover the drafting of all kind of drawings/schemes required to be submitted to Railways and Commissioner for Railway Safety (CRS) as a part of obtaining requisite approvals for executing superstructure works. ii.Steel girders are to be fabricated in RDSO approved workshops with the consent of KRDCL and Railways. iii.Supply, fabrication, launching and erection of steel girders over the running track during the line block/power block approved by Railway including supply and installation of POT-PTFE bearings as per RDSO specifications. iv.Construction of deck slab including shuttering, high level parapet wall, strip seal expansion joints, crash barrier, casting and erection of precast slabs for footpath as per the drawings, painting of RCC surfaces with elastomeric paint, synthetic enamel painting in strips for crash barrier. v.Provision for utility lines, 16 nos of drainage spouts of CI gratings and 100mm dia. UPVC pipe of approximately 1m length including required fittings. vi.Removal of debris and clearing of site, preparation and submission of as-built drawings etc. complete as per the direction of Engineer-in-charge. vii.Load testing of 36m effective span. viii.Deleted. NOTE All works shall be executed as per relevant Railway/IRC codes and manuals. The segmental method of construction will not be accepted. The expenditure for cautionary and protective works to be done while working near the railway track is included in this item. The foundation, substructure works and wearing coat over the carriageway are not included in this Schedule. Stages of Payment ASupply of materials for fabrication of Girders:20 % BCompletion of fabrication of Girders: 20% CTransportation of Girders to Project location:5 % DLaunching and Erection of Girders:20 % ECasting of Deck slab:15 % FCasting of Crash Barrier & High level parapet:10 % GCompletion of all other balance works and commissioning of the ROB : 10% Note The payment for Stage A shall be released only on submitting Indemnity bond, Material Testing Certificate and Invoices to the Authority.</p>						

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - Design and Construction of Non-Railway portion of Bridge and Approach portion including the Foundation and Substructure of Railway spans							115609000.00	Above/ Below/Par
		Lump Sum			115609000.00	AT Par	115609000.00	
1		Description :- Design and Construction of approach portion as a combination of Bridge and Embankment. The bridge shall be a combination of Pre-stressed Concrete Girders and Reinforced Cement Concrete (Piles, Pile Caps, Piers, Pier Caps, POT-PTFE or Elastomeric Bearings, Deck Slab, Crash barrier) designed for IRC Class A Two lane / 70 R Single lane loading with expansion joints only at Abutment joints and Railway span joints as per the Approach GAD (Drg No: KRDCL/TVC/ROB/LC 36/APP) and as per the conditions and technical specifications in this contract including design and proof checking charges, cost of all men, machinery, materials, tools & plants etc. complete. The scope of the work generally includes the following:- i. Conduct necessary geotechnical studies, topographic survey, traffic survey etc. for the satisfactory execution of the Project. ii. Geometrical improvements to the Alignment like modification of horizontal curves etc. within the available Right of Way (ROW) as per the direction of the Authority. iii. Designing of the structure by a reputed and experienced Structural Engineering firm, proof checking by any reputed Structural Engineering firm for Non-Railway portion of bridge and approaches, proof checking by any IIT for Railway portion. The Structural Engineering firm for design and proof check shall be selected with the approval of the Authority. iv. Demolishing of existing structures, felling down of trees and clearing of land etc. within the ROW of ROB and Approaches shall be done by the Contractor. The felled down trees shall be the property of the Authority. v. Construction of open/pile foundations as per the soil conditions, MS liners for piles as per the requirement, pile load test, sub structure, bearings, Pre-stressed Concrete Girders either precast or cast in situ, deck slab. vi. Load testing of any 1 span as required. vii. Strip seal expansion joints only at abutment joints and railway span joints, embankment construction with suitable filling material and RCC retaining walls, crash barrier, kerbs. viii. Casting and erection of precast slabs for footpath, provision for utility lines, suitable drainage arrangements, inspection platforms for railway spans as per Drg. No: CBS-0044, BC wearing coat over mastic sheet on bridge portion including Railway spans mentioned in Schedule A. ix. Design and Construction of flexible pavement with Subgrade, GSB, WMM, Priming coat, Tack coat, DBM and BC wearing coat on embankment portion, road marking and furniture, painting of RCC surfaces with elastomeric paint, synthetic enamel painting in strips for crash barrier and sides of the kerb adjacent to the carriageway. x. Deleted. xi. Removal of debris and clearing of site, preparation and submission of as-built drawings etc. (Refer Vol 4, Schedule B for Notes and Stage payments)						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Trivandrum Division except Cement and Steel							2860000.01	Above/ Below/Par
		Lump Sum			1740400.42	64.33	2860000.01	
1		Description :- Construction of Service Road, Retaining wall, works near the merging area of the ROB, side drainages and cross drainages on existing/service road, renovation of existing road as per site conditions, construction of staircase and all other miscellaneous works to be operated as per the items in SRUSSOR 2011 corrected up to date as per the directions of the Authority. The rates given in SRUSSOR 2011 will be the base rates for these items. The escalated percentage set forth in this Schedule and bid percentage (+/-/at par) quoted by the contractor will be applied to the base rates in SRUSSOR 2011. The items of supply and use of cement and steel are not included in this Schedule						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule D-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - NON USSOR ITEMS							6564756.00	
1		Please see Item Breakup for details.			6564756.00	AT Par	6564756.00	Above/ Below/Par
		Description:- NON USSOR ITEMS						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule E-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Trivandrum Division for Cement							749961.21	Above/ Below/Par
1		Please see Item Breakup for details.			511221.00	46.70	749961.21	
		Description:- Supply and using OPC 53 grade cement at worksite						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
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Schedule F-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Trivandrum Division for Steel				1225523.97	Above/ Below/Par
1	Please see Item Breakup for details.		964979.50	27.00	1225523.97
	Description:- Supplying reinforcement of High yield strength deformed bars for RCC work including staightening, cutting, bending, placing in position and binding all complete				

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule G-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - Design and Construction of Road Under Bridge and Approach Roads							77330879.00	Above/ Below/Par
1	Lump Sum				77330879.00	AT Par	77330879.00	
	Description :- Design and Construction of RUB in lieu of LC 12 at Nilambur yard as per the approved GAD (Drg.No: SR/CN/ERS/51-2019) and the Alignment plan (Drg.No: KRDCL/PGT/RUB/LC 12/ALIGN) as per the conditions and technical specifications in this contract including cost of all men, machinery, materials, tools & plants etc. but excluding the cost of temporary steel girders, complete as per the direction of Engineer-in-charge. The lump sum rate quoted for the above will include complete design, construction of RCC box of inner size 25m x 9.25m x 5.50m, and approach roads in 1 in 20 gradient on both sides and all associated works. The RCC box shall be constructed by cast-in-situ or pre-cast and box pushing technique with thrust bed or pre-cast and erection with cranes of suitable capacity as designed by the Contractor and approved by the Authority. (Refer Volume 4, Scedule G for full scope, Notes and Stages of Payment)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule H-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Palghat Division except Cement and Steel							12831000.01	Above/ Below/Par
1	Lump Sum				8532384.63	50.38	12831000.01	
	Description :- Construction of Service Road, Diversion road, works near the merging area of the RUB, side drainages and cross drainages on existing/service road, renovation of existng road as per site conditions, construction of compound wall, construction of height guages and all other miscellaneous works to be operated as per the items in SRUSSOR 2011 corrected up to date as per the directions of the Authority. The rates given in SRUSSOR 2011 will be the base rates for these items. The escalated percentage set forth in this Schedule and bid perenatge (+/-/at par) quoted by the contractor will be applied to the base rates in SRUSSOR 2011. The items of supply and use of cement and steel are not included in this Schedule							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule I-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - NON USSOR ITEMS							23001754.00	Above/ Below/Par
1	Please see Item Breakup for details.				23001754.00	AT Par	23001754.00	
	Description:- NON USSOR ITEMS							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule J-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Palghat Division for Cement							1177358.45	Above/ Below/Par
1	Please see Item Breakup for details.				802562.00	46.70	1177358.45	
	Description:- Supply and using OPC 53 grade cement at worksite							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule K-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Palghat Division for Steel							2661994.36	Above/ Below/Par
1	Please see Item Breakup for details.				2096058.55	27.00	2661994.36	
	Description:- Supplying reinforcement of High yield strength deformed bars for RCC work including staightening, cutting, bending, placing in position and binding all complete							

3. ITEM BREAKUP

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Schedule	Schedule D-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - NON USSOR ITEMS					
Item- 1	NON USSOR ITEMS					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Construction of granular sub-base by providing graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401. Grading-V - For sub base cum drainage layer - Mix in Place Method (Unit - Cum)	Per Unit	627.00	3161.00	1981947.00
2	2	Supplying and laying interlocking tile 100 mm or nearest size thickness, minimum strength M 40 including providing a layer of 6 mm aggregate for 5 cm thickness, then laying interlock cobbles in lines and levels as per the directions of the departmental officers at site inclusive of all cost & conveyance charges etc.; complete.	Per Unit	2438.00	1296.00	3159648.00
3	3	Supply and erection of 5.5 mtr long 3 mm hot dip galvanised octagonal poles (single arm bracket, single arm pole) made up of 3mm thick HT steel with following features :Dia. 175mm at bottom and 70mm at the top, Base plate of size:275x275x16mm, 1500 mm long double/single arm bracket of 48.3mm outer dia & 3mm thick GI pipe at a tilt angle of 10 degree all as per drawing (Unit-Nos)	Per Unit	22.00	22638.00	498036.00
4	4	Supply, Installation Testing and Commisioning of 80 watt LED street light fixure (Havells make model Pearl Endura Plus)/ or Equivalent Wipro/Bajaj/Philips make including accessories, bolt & nuts/studs etc complete suitable for smart lighting configuration and not brand specific. (Unit-Nos)	Per Unit	22.00	10193.00	224246.00
5	5	Supplying and laying of following size DWC HDPE pipe 63 mm dia (OD-63 mm & ID-51 mm nominal) ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required. (Unit-Metre)	Per Unit	1000.00	116.00	116000.00
6	6	Supply and laying of PVC/XLPE insulated armoured cable with aluminium conductor of size 4*25 sq mm for working volages upto and including 1100V conforming to IS Specification through already laid ducts or pipes (Unit-Metre)	Per Unit	1000.00	358.00	358000.00
7	7	Giving connection to street lighting lamps through the poles using 4.0 sq mm PVC insulated aluminium wire and 8 No: GI earth wire after providing junction boxes 75mm x 75mm x 100mm made of 3mm MS sheet powder coated with cover, cutting, jointing and terminating the cables using glands, sockets,connectores and all accessories and providing earth continuity connections including cost of wires and all materials, labour, testing and commisioning etc. (Unit - Nos)	Per Unit	22.00	1025.00	22550.00
8	8	Providing earthing for poles and supports / pillar boxes including supply of materials, excavation, giving connection, laying lead wires etc. complete using 40mm GI pipes 3m long and 6 No: GI wire (Unit- Nos)	Per Unit	22.00	5228.00	115016.00

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9	9	Supply, installation, testing & commissioning of Group control street light switching feeder panel 30KVA, 3 ph-63 A or equivalent as per feeder electrical wiring & exact number of Network components and space for routing of KSEB meter and availing connection from KSEB, including all charges for services connection, cabling etc., control switches, fuses etc. for automatic switching on and off. The gateway/controller shall generate alerts for various fault conditions and send alerts to web application along with time stamp for such alerts via SMS/Email complete as per specifications. (Including on board 4GB SD card for storing data in the absence of GPRS connection) (Unit - Each)	Per Unit	1.00	83400.00	83400.00
10	10	Mapping and commissioning of Control Panel including supply of related software for remote monitoring and control of street lights (Unit- Nos)	Per Unit	1.00	1390.00	1390.00
11	11	Supply and erection of Syntex box, GSMP5628 with 100A, 415V, Kit-Kat fuse unit with accessories for clamping to KSEB's post for accommodating energy meter etc as complete. (Unit - Each)	Per Unit	1.00	4523.00	4523.00
					Total	6564756.00
Schedule	Schedule E-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Trivandrum Division for Cement					
Item- 1	Supply and using OPC 53 grade cement at worksite					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
Supply and using cement at worksite :						
1	033062	OPC 53 grade	Tonne	93.00	5497.00	511221.00
					Total	511221.00
Schedule	Schedule F-DESIGN AND CONSTRUCTION OF ROB IN LIEU OF LC 36 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Trivandrum Division for Steel					
Item- 1	Supplying reinforcement of High yield strength deformed bars for RCC work including straightening, cutting, bending, placing in position and binding all complete					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.						
1	045014	High yield strength deformed bars	Kg	18190.00	53.05	964979.50
					Total	964979.50
Schedule	Schedule I-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - NON USSOR ITEMS					
Item- 1	NON USSOR ITEMS					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Supply including fabrication of temporary steel girder of overall length of 26.80m as per RDSO approved drawing, RDSO-B-11042 including the cost of all men, machinery, materials, tools & plants etc. Girder is to be fabricated in RDSO approved workshops following the guidelines issued by RDSO from time to time. Girder shall be subjected to inspection by Railway Engineers and work is to be completed as per the direction of Railway Engineers. The fabricated girder set is to be transported to the project location (LC 12 at Nilambur yard) and kept ready for erection after completing all fabrication works required prior to erection. The girder shall be maintained in good condition till the erection at the risk and cost of the Contractor. This item shall include all parts of the temporary girder, part steel channel sleeper, bolts and clips required for fixing of rails in track circuited territory. After the completion of RUB work, the temporary girder will be the property of KRDCL. Stages of Payment A. Supply of Materials for fabrication of Steel girder -20%(Payment shall be released only on submitting the Indemnity bond, Material Testing Certificate and Invoices) B. Completion of fabrication of Girder @45<37@ C. Transportation to project location -10% D. Completion of work -10% (Unit - MT)	Per Unit	82.00	171600.00	14071200.00
2	2	Construction of granular sub-base by providing graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401. Grading-V - For sub base cum drainage layer - Mix in Place Method (Unit - Cum)	Per Unit	915.00	3161.00	2892315.00
3	3	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (Unit - Cum)	Per Unit	998.00	3199.00	3192602.00
4	4	Providing and fixing of direction and place identification retro-reflectorised sign with 7 years warranty manufactured as per IRC :67 High Intensity Micro Prismatic (Type IV) grade sheeting fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with area exceeding 0.9 sqm, with suitable back supporting frame of MS angle 40x40x6 and supported on suitably designed GI pipe pole not less than 50mm NB , 2 Nos. 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. (Unit - Sqm)	Per Unit	20.00	9307.00	186140.00
5	5	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 (Unit - Metre)	Per Unit	50.00	3911.00	195550.00

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6	6	Deploying labour with sufficient experience on Permanent Way (Railway track) maintenance for attending emergency track work and/to man the caution spot as and when required by the Authority. All required tools have to be arranged by the Contractor. (Unit - Day(8 hour))	Per Unit	210.00	761.00	159810.00
7	7	Casting the RCC box and base slab as per the approved plan and drawing near the proposed site with controlled concrete as per the design using contractors mould made of steel plates and angles, supports etc. including cutting bending of rods conform to IS:2502-1963 and levelling the ground curing etc. conforming to IS specification and as directed by the Engineer in charge Note 1)All labour and materials for the casting of RCC boxes & base slabs by the contractor excluding cement and steel 2)Rate quoted for this item is EXCLUSIVE of CEMENT and STEEL 3)Contractor has to supply and use his own binding wire for RCC work and no extra rate will be paid for bar bending of rods to IS 2502-1963 . 4) vibrating the concrete and curing shall be done as specified in the relevant Concrete bridge Code and IS codes 5)For the design mix concrete the contractor has to get mix designed and test results obtained from Railway approved laboratory or Govt Engg colleges at his own cost and adopt the same ratio after taking the approval of Railways 5)Test cubes are to be taken at different stages of work prescribed in IS:456-2000 and produced to Railways. Railways will undertake the test at Railway approved laboratories/ Govt Engg Colleges at contractors expense. (Unit - Cum)	Per Unit	50.00	8910.00	445500.00
8	8	During Line Block Period Lifting and laying in position of railways pre cast RCC boxes, base slabs of different spans already manufactured, available at site duly transporting from casting yard if required and keeping in position in requisite location, work as per relevant drawing true to line and level to match the alignment without any damage during erection of proposed BG box culvert using contractor's road crane of required capacity and or any other approved means, duly cutting open the existing formation in all kinds of soil including cutting of soft rock and hard rock if any, to the required dimensions, levelling the surface with contractor's excavator to provide levelling course separately, providing necessary shoring arrangements including jointing the box units/slab units with epoxy pressure grouting around the box to make the joint water tight, filling the gap between sides of the boxes and refilling the excavated portion of the formation with Railways excavated earth and including compaction in layers with hand rammers and disposing the excess excavated earth suitably to repair the cess/ slope within the lead of 30m ,compaction in layers with hand rammers as directed, crossing the track if any, with all lead and lift etc. complete and as directed (All labour, materials, tools and plants ,insurance, hire charges of all vehicles, shoring material, generators with lighting arrangement, caution watchman, incidental charges taxes etc. by contractor.) (Unit - MT)	Per Unit	125.00	4752.00	594000.00
9	9	Supply and erection of 5.5 mtr long 3 mm hot dip galvanised octagonal poles (single arm bracket, single arm pole) made up of 3mm thick HT steel with following features :Dia. 175mm at bottom and 70mm at the top, Base plate of size:275x275x16mm, 1500 mm long double/single arm bracket of 48.3mm outer dia & 3mm thick GI pipe at a tilt angle of 10 degree all as per drawing. (Unit- Nos)	Per Unit	15.00	22638.00	339570.00

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10	10	Supply, Installation Teting and Commisioning of 80 watt LED street light fixure (Havells make model Pearl Endura Plus)/ or Equivalent Wipro/Bajaj/Philips make including accessories, bolt & nuts/studs etc complete suitable for smart lightining configuration and not brand specific. (Unit - Nos)	Per Unit	15.00	10193.00	152895.00
11	11	Supply, Installation Testing and Commisioning of 80 watt LED street light fixure(Havells make model Pearl Endura Plus)/ or Equivalent Wipro/Bajaj/Philips make including accessories like brackets of 45cm length 3mm thick GI pipe with base at a tilt angle of 10 degree, fastners etc complete to be fixed on the internal walls of RCC Box of RUB suitable for smart lighting configuration and not brands specific. (Unit - Nos)	Per Unit	4.00	11549.00	46196.00
12	12	Supplying and laying of following size DWC HDPE pipe 63 mm dia (OD-63 mm & ID-51 mm nominal) ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required. (Unit - Metre)	Per Unit	750.00	116.00	87000.00
13	13	Supply and laying of PVC/XLPE insulated armoured cable with aluminium conductor of size 4*25 sq mm for working volages upto and including 1100V conforming to IS Specification through already laid ducts or pipes (Unit - Metre)	Per Unit	750.00	358.00	268500.00
14	14	Giving connection to street lighting lamps through the poles using 4.0 sq mm PVC insulated aluminium wire and 8 No: GI earth wire after providing junction boxes 75mm x 75mm x 100mm made of 3mm MS sheet powder coated with cover, cutting, jointing and terminating the cables using glands, sockets,connectores and all accessories and providing earth continuity connections including cost of wires and all materials, labour, testing and commisioning etc. (Unit - Nos)	Per Unit	15.00	1025.00	15375.00
15	15	Giving connection to street lighting lamps through the piers using 3 core 2.5 sqmm PVC insulated aluminium wire for phase, neutral and earth after providing juction boxes 75mm x 75mm x 100mm or larger size made of thermoplastic with cover, cutting, jointing and terminating the cables using glands, sockets, connectors and all accessories and providing earth continuity connections including cost of wires and all materials, like stud terminals for loop in and loop out,Kit Kat fuse units, etc and all labour, testing and comissioning etc, complete for street lighting points on internal walls of RCC Box of RUB. (Unit - Nos)	Per Unit	4.00	4447.00	17788.00
16	16	Providing earthing for poles and supports / pillar boxes including supply of materials, excavation, giving connection, laying lead wires etc. complete using 40mm GI pipes 3m long and 6 No: GI wire. (Unit - Nos)	Per Unit	15.00	5228.00	78420.00
17	17	Supply, installation, testing & commisioning of Group control street light switching feeder panel 30KVA, 3 ph-63 A or equivalent as per feeder electrical wiring & exact number of Network components and space for mouting of KSEB meter and availing connection from KSEB, including all charges for services connection, cabling etc., control switches, fuses etc. for automatic switching on and off. The gateway/controller shall generate alerts for various fault conditions and send alerts to web application along with time stamp for such alerts via SMS/Email complete as per specifications. (Including on board 4GB SD card for storing data in the absence of GPRS connection) (Unit - Each)	Per Unit	3.00	83400.00	250200.00

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18	18	Mapping and commissioning of Control Panel including supply of related software for remote monitoring and control of street lights (Unit - Nos)	Per Unit	3.00	1390.00	4170.00
19	19	Supply and erection of Syntex box, GSMP5628 with 100A, 415V, Kit-Kat fuse unit with accessories for clamping to KSEB's post for accomodating energy meter etc as complete. (Unit - Each)	Per Unit	1.00	4523.00	4523.00
					Total	23001754.00
Schedule	Schedule J-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Palghat Division for Cement					
Item- 1	Supply and using OPC 53 grade cement at worksite					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supply and using cement at worksite :				
1	033062	OPC 53 grade	Tonne	146.00	5497.00	802562.00
					Total	802562.00
Schedule	Schedule K-DESIGN AND CONSTRUCTION OF RUB IN LIEU OF LC 12 AND ALLIED WORKS - Items covered by Southern Railway Unified Standard and Schedule of Rates 2011 as corrected up to date applicable to Palghat Division for Steel					
Item- 1	Supplying reinforcement of High yield strength deformed bars for RCC work including straightening, cutting, bending, placing in position and binding all complete					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
1	045014	High yield strength deformed bars	Kg	39511.00	53.05	2096058.55
					Total	2096058.55

4. ELIGIBILITY CONDITIONS

Important : All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Capacity: The Bidder shall have a minimum Net Worth (the "Financial Capacity") of 5% (five percent) of the Estimated Tender Value at the close of the preceding Financial Year. In case of a Joint Venture, Consortium/Joint Venture/Partnership as whole shall cumulatively/collectively fulfil the 100% Financial Capacity. Please refer 13. Qualification requirements of Vol 1 tender document	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	Technical Capacity: For demonstrating Technical Capacity and experience (the "Technical Capacity"), the Bidder shall, over the past 5 (five) Financial Years preceding the Bid Due Date as stated under clause no: 5.1.13, (i) have received payments for construction of Eligible Project(s), or has undertaken construction works by itself in a Public Private Partnership(PPP) project, such that the sum total thereof, as further adjusted in accordance with Clauses 13.2.4 and 13.2.6, is more than 1.5 times the Estimated Tender Value (the "Threshold Technical Capacity"), with the Consortium/Joint Venture/Partnership (in case of a Joint Venture) as whole cumulatively/collectively fulfilling the 100% Threshold Technical Capacity; and (ii) the sole Bidder or in case the Bidder being a Joint Venture, any member of Joint Venture (having minimum 26% shareholding in Consortium/Joint Venture/Partnership) shall have completed any of the following in the last 5 (five) financial years preceding the Bid Due Date. a) Three similar Major Bridge/ROB/RUB/Flyover project (either as isolated project or as part of a larger project), and each having a cost at least 30% of the Estimated Tender Value. b) Two similar Major Bridge/ROB/RUB/Flyover project (either as isolated project or as part of a larger project), and each having a cost at least 40% of the Estimated Tender Value. c) One similar Major Bridge/ROB/RUB/Flyover project (either as isolated project or as part of a larger project), and having a cost at least 60% of the Estimated Tender Value. (Please refer 13. Qualification Requirements VOL 1 tender document)	No	No	Allowed (Mandatory)
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Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Similar work: Refer Clause 13.2 of Volume 1 tender document	No	No	Allowed (Mandatory)

5. COMPLIANCE

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Schedule C item No 4: unit may be read as per sqm. Please refer Corrigendum 2, Sl. no. 10 also.	No	No	Not Allowed
2	Please see the VOL 4 for Detailed description/Scope/Terms and conditions for each Schedule of Items.	No	No	Not Allowed
3	Pre-Bid Site inspection at LC 36 scheduled on 09.08.2021 at 11.00hrs to 13.00hrs	No	No	Not Allowed
4	Pre-Bid Site inspection at LC 12 scheduled on 10.08.2021 at 11.00hrs to 13.00hrs	No	No	Not Allowed
5	1st Pre-Bid meeting at KRDCL's Office at Trivandrum scheduled on 17.08.2021 at 11.00 hrs (Interested participants may attend Pre-bid meeting through online for which they should sent a request to official mail id (info@keralarail.com) for online meeting ID and password.)	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	PAN card	Yes	Yes	Allowed (Mandatory)
2	TAN card	Yes	Yes	Allowed (Optional)

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3	Section III Forms of Tender - APPENDIX IA - LETTER COMPRISING THE TECHNICAL BID	Yes	Yes	Allowed (Mandatory)
4	Section III Forms of Tender - Appendix IA - Annex-I - Details of Bidder	Yes	Yes	Allowed (Mandatory)
5	Section III Forms of Tender - Appendix IA - Annex-II - Technical Capacity of the Bidder	Yes	Yes	Allowed (Mandatory)
6	Section III Forms of Tender - Appendix IA - Annex-III-Financial Capacity of the Bidder	Yes	Yes	Allowed (Mandatory)
7	Section III Forms of Tender - Appendix IA - Annex-IV -Details of Eligible Projects	Yes	Yes	Allowed (Mandatory)
8	Section III Forms of Tender - Appendix IA - Annex-V -Statement of Legal Capacity	Yes	Yes	Allowed (Mandatory)
9	Section III Forms of Tender - APPENDIX IB-Letter comprising the Financial Bid	Yes	Yes	Allowed (Mandatory)
10	Section III Forms of Tender - APPENDIX II - Format for Power of Attorney for Signing of Bid	Yes	Yes	Allowed (Optional)
11	Section III Forms of Tender - APPENDIX III - Format for Power of Attorney for Lead Member of {Consortium/Joint Venture/Partnership}	Yes	Yes	Allowed (Optional)
12	Section III Forms of Tender - APPENDIX IV-Format for Joint Bidding Agreement for {Consortium/Joint Venture/Partnership}	Yes	Yes	Allowed (Optional)
13	Section III Forms of Tender - APPENDIX V - Format of Declaration submitted in lieu of Bid Security	Yes	Yes	Allowed (Mandatory)
14	ESI Registration certificate	Yes	Yes	Allowed (Mandatory)
15	EPF Registration Certificate	Yes	Yes	Allowed (Mandatory)
16	GST Registration Certificate	Yes	Yes	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	Vol2Annexure1.pdf	Volume 2 Annexure 1
2	Vol2Annexure2.pdf	Volume 2 Annexure 2
3	LC12.pdf	Drawing LC12
4	LC36.pdf	Drawing LC36
5	Vol_2.pdf	Volume 2
6	Vol4.pdf	Volume 4
7	Volume1.pdf	Volume 1
8	Volume3.pdf	Volume 3
9	Corrigendum1_1.pdf	Corrigendum 1
10	Corrigendum2II.pdf	Corrigendum 2

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: DEEPA JOY

Designation : JGM/GENERAL

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