



इस्कॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)
An Integrated Engineering and Construction Company



Katni-Singrauli Rail Doubling Project,
1st Floor, Above Maruti Suzuki Show room,
Near Jhinhari Police Station,
NH-7, Jabalpur Road, Katni 483 501(M.P.)
email - ircon.2065@ircon.org

कटनी-सिंगरौली रेल दोहरीकरण परियोजना
प्रथम तल, मारुती सुजुकी शोरूम के उपर
झिंझरी, पुलिस चौकी के समीप, नेशनल हाईवे-7,
जबलपुर रोड, कटनी - 483 501 (म.प्र.)
ई-मेल - ircon.2065@ircon.org

No IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131/966

Date: 29.11.2023

M/s D K Chauhan.
Near SBI Colony
Gorakhpur, Jabalpur
Madhya Pradesh
Pin :- 482001

(Letter of Acceptance)

Sub: Construction of Road Over Bridge (ROB) in lieu of Level Crossing No. 105 near Bargwan yard for Railway portion and proposed new LHS No. 1318/1A by BOX Pushing method for both existing UP and DN line in connection with Katni- Singrauli Rail Doubling project under West Central Railway (M.P.).

Ref:

(i) Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date:
10.11.2023

(ii) Bid submitted on 23.11.2023 and opened on 24.11.2023

Your offer for the work of "Construction of Road Over Bridge (ROB) in lieu of Level Crossing No. 105 near Bargwan yard for Railway portion and proposed new LHS No. 1318/1A by BOX Pushing method for both existing UP and DN line in connection with Katni- Singrauli Rail Doubling project under West Central Railway (M.P.)" submitted vide references above, has been accepted by the Competent Authority of Ircon International Limited at the total Contract Value of Rs 16,86,82,354.00 (Rupees Sixteen Crore Eighty-Six Lakhs Eighty-Two Thousand Three Hundred Fifty-Four only) including GST @ 18% at the accepted rates of items / schedules as per Annexure-A (attached herewith) to this letter and terms and conditions, incorporating all the corrigendum and addendums issued to the tender documents.


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In term of para 7.1 (i) of Special Conditions of Contract: you are requested to submit a Performance Guarantee (P.G.) within 21 days from date of LOA in the form irrevocable bank guarantee in favor of IRCON International, Katni on the Performa annexed as Annexure-X (from any Scheduled Bank for an amount of 5% (Five percent) of the contract value, i.e., Rs 84,34,118/- (Rupees Eighty Four Lakhs Thirty Four Thousand One Hundred Eighteen only).

1. The entire work is required to be completed within **09 (Nine) months** from the date of issue of this letter of acceptance.
2. Your kind attention is invited to the provision of Clause 16 of Special Conditions of Contract. You are required to submit/comply the following:
 - 2.1 In terms of clause 16.1, a programme for completion of work to the Engineer for his approval within 15 days from the date of receipt of letter of acceptance considering completion period as indicated in appendix to tender. Programme so submitted and agreed by IRCON will become part of the contract agreement. (For details, refer to Para 16.1 of SCC).
 - 2.2 In terms of clause 16.2, a detailed Execution/completion Programme with milestones/Key dates based on completion period as indicated in appendix to tender. These shall be incorporated in the Contract Agreement after approval by Engineer in charge (For details, refer to Para 16.2 of SCC).
 - 2.3 In terms of Clause No 16.3: Resource Deployment Program, within 15 days of award of contract, i.e. key personnel, manpower, Plant & Machinery and Other resources deployment program. These shall be incorporated in the Contract Agreement after approval by Engineer in charge.
 - 2.4 In terms of Clause No 16.4: within 15 days of award of contract, Cash flow statement and cumulative monthly progress plan (in the form of S curve). These shall be to be incorporated in the Contract Agreement after approval by Engineer in charge.
 - 2.5 In terms of Clause No 16.5: Within 15 days of award of contract, Method statement for various activities and Quality Assurance Plan (QAP) and start the work after their approval.
 - 2.6 In terms of Clause No 16.6: Within 15 days of the award of the contract, Organization chart of the project with the CV of the key personnel's to be deployed at the project site.


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3. You are requested to attend this office for signing of the Contract Agreement on or before 28 days after issue of this letter as per clause no.: 13.5 of Special Conditions of Contract.
4. All other terms and conditions shall be as per Tender Documents and Corrigendums and Addendums, which shall form an integral part of this contract and shall be binding on you. Your letters at reference above shall form part of the Contract Agreement. This Letter of Acceptance, along with your submitted offer, shall constitute a binding Contract between you and Ircon International Limited, till a formal agreement is drawn and executed.
5. This Letter of Acceptance is being issued in duplicate and you are requested to return one copy of this Letter of Acceptance duly accepted, signed & stamped on each page by your authorized representative.
6. You are advised to mobilize the resources to commence the work. You are requested to contact Project Head, Katni Singrauli Doubling Project for further instructions at the following address:

Katni Singrauli Doubling Project,
Ircon International Limited,
First Floor, Over Maruti Suzuki showroom,
Near Jhinhari Police Station, NH-7, Jabalpur
Road, Katni – 483501 (M.P). MO: 7470376222

Thanking You

Enclosed:

- (i) Annexure-A, Bill of quantities (BOQ).

For & on behalf of
IRCON International Limited



(Akhilesh Sahu)
CGM/PH

Copy to:

- (i) GM/Fin/, AGM/C-I, JGM/MWJ, DGM/C-I for information.

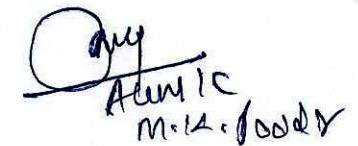
Bill of Quantity (BOQ)

Name of Work:- Construction of Road Over Bridge (ROB) in line of Level Crossing No. 105 MZHL-BRGW section for Railway portion and proposed new LHS No. 1318/1A by BOX Pushing method for both existing UP and DN line in connection with Katni- Singrauli Rail Doubling project under West Central Railway .

Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
SCHEDULE 1 (USSOR Item 2021)						
1	013040	Providing portable fencing along running track where work is to be done in close vicinity of track, maintaining during execution of work and removing after completion of the work as per direction of the Engineer. Fencing shall consist of self supporting steel angles of size 50mm x 50mm x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23m x 0.23m x 0.23m placed at c/c distance of 2m along track. 12mm dia rods in three horizontal layers shall be tack welded with angle posts. Note : Released material will be property of the contractor after completion of work. Cost of cement required for CC blocks shall be				
1a	013041	With provision of one 50mm wide retro-reflective tape in horizontal direction,duly secured/tight with vertical posts	Metre	270.00	401.27	₹ 1,08,342.90
2	022010	Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil up to a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE mmasts and other miscellaneous structures in connection with Gauge				
2a	022011	All kinds of soils	Cum	3116.00	212.37	₹ 6,61,744.92


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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
2b	022012	Soft Rock not requiring blasting	Cum	2000.00	451.73	₹ 9,03,460.00
3	021220	Supplying and filling 50 kg size empty cement polythene bags with Rly. Ballast/moorum/earth/Sand/quarry dust etc. placing the filled bags on the high banks /bridge approaches/nominated place etc. dumping and spreading at the nominated locations to profile under block period with all contractor's labour, tools, plants, loading, unloading, filling, spreading including all lead/lift etc. complete and as directed by the Engineer in charge at site including crossing of track where necessary.	EACH	3,000.00	15.20	₹ 45,600.00
4	022030	Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :				
4a	022032	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	473.00	3518.41	₹ 16,64,207.93
4b	022034	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	Cum	174.00	3625.75	₹ 6,30,880.50
5	022040	Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item	Cum	1486.00	3480.72	₹ 51,72,349.92


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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
6	022050	Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
6a	022051	Abutment & Pier	Cum	236.00	3550.29	₹ 8,37,868.44
6b	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	Cum	238.00	3585.08	₹ 8,53,249.04
6c	022054	Approach slab at formation level, Dirt wall/ ballast wall at formation level	Cum	236.00	3515.51	₹ 8,29,660.36

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
7	022090	Boring, providing and installation of bored cast in-situ Reinforced Cement Concrete piles using Hydraulic piling Rig of specified diameter and length below pile cap of specified grade with Design Mix Cement Concrete, using 20mm graded crushed stone aggregate and coarse sand of approved quality, to carry a safe working load not less than specified, concreting by machine batching, machine mixing, scaffolding, using Admixture in approved proportion (as per IS:9103), placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc., pumping and bailing out water complete in all respect as per approved drawing, specification and direction of the Engineer in charge. Note: 1. Payment for only cement, reinforcement shall be made extra. 2. Length of the pile for payment shall be measured up to the bottom of RCC pile Cap. 3. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
7a	022092	1200mm diameter	Metre	350.00	9604.60	₹ 33,61,610.00
8	022100	Providing, fabricating and installing permanent casing pipe for boredpiles for all diameters with specified thickness of steel plate including all labour, materials, tools & complete as per approved drawing & specifications complete in all respect as per the direction of Engineer in charge. Note: Payment shall be made as per the weight of circular plate of casing pipe only.	MT	18	135950.59	₹ 24,47,110.62


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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
9	022 120	Conducting load test of a single pile up to specified capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer				
9a	022 123	Initial load test above 100 ton and up to 250 T capacity pile	Each	1	96793.26	₹ 96,793.26
9b	022 124	Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton	Each	4.00	5496.27	₹ 21,985.08
10	022 130	Lateral load testing of single pile in accordance with "IS Code of practice IS:2911 (Part-IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification as directed by the Engineer				
10a	022 132	Piles with lateral load capacity of above 50 ton and up to 100 ton	Each	16.00	32762.35	₹ 5,24,197.60
11	022 140	Pulse Echo Test (PET) for integrity testing of piles with contractor's men, materials and machines. The rate includes cost of Inspection of site, preparation of pile head and any other unforeseen cost required for the test, submission of reports in triplicate as per satisfaction of the Engineer in Charge	Each	16.00	3054.51	₹ 48,872.16
12	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall	Cum	485.00	3828.79	₹ 18,56,963.15

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
13	025020	Providing and applying two coats of coal tar or bitumen conforming to IS:3117- latest version on the top and sides of RCC box/slabs @ 1.70 kg/sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer.	Sqm	300	194.85	₹ 58,455.00
14	025030	centering and shuttering including strutting, propping etc. and removal of form for :				
14a	025031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. upto 5m above ground level	sqm	2621.00	749.27	₹ 19,63,836.67
14b	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. up to 5m above ground level	sqm	793.75	969.58	₹ 7,69,604.13
14c	025033	Extra for additional height over item no. 025031 & 025032 wherever required with adequate bracing, propping etc. over initial height of 5 metres for every additional height of 1 metre or part thereof.	sqm	900.00	118.44	₹ 1,06,596.00
15	025070	Supply and using Cement at Worksite				
15a	025071	Ordinary Portland Cement 43 grade	MT	1148.00	8178.81	₹ 93,89,273.88
16	025080	Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
16a	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	310000.00	118.78	₹ 3,68,21,800.00
17	031100	Providing and fixing in position of standard preformed sealed and slab type or strip seal elastomeric type expansion joints for Railway bridge or Road Over Bridges as per approved drawings and latest MORTH/IRC specifications complete in all respect as directed by Engineer in-charge				
17a	031101	For 40mm expansion	Metre	26.00	8269.86	₹ 2,15,016.36

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
18	31110	Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recording and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/loading material etc. The load shall be 1.25 times the stipulated design load.				
18a	031111	For Span design load up to 100 MT	Each	1.00	87720.54	₹ 87,720.54
18b	031112	Extra for every increase of 1 MT or part thereof over 100 MT in the span design load capacity up to 800 MT	MT	300.00	325.27	₹ 97,581.00
19	31120	Casting and installation of single/twin RCC box of all sizes with or without common web section including design of pushing scheme, thrust bed, casting of all RCC components, with specified grade of controlled concrete, pushing it in correct position and alignment below Railway track/Road following all measures of track safety by "Box pushing technique" as per approved drawings/scheme, with or without surcharge in all types of soils with disposal of surplus earth away from vent up to 1 Km, fixing arrangement for all services & utilities including parapet walls on both sides, wearing course, foot paths, plaques, drainage arrangements etc. and all other incidental works to complete the ROB/RUB/Canal crossing in all respect as per specifications to the satisfaction of Engineer-in-Charge. Note: 1. The rate includes all items of work/supplies for complete job in all respects except "cost of Reinforced cement concrete, cement, reinforcement & shuttering" of (i) main RCC Box; (ii) Thrust Bed; (iii) Footpath (iv) Parapet wall and (v) wearing Course only, which shall be paid extra under relevant items of USSOR. 2. In case Drag Sheet and/or Rail Cluster are to be used as per approved scheme and design, the same shall be paid extra under relevant item. 3. The payment for this item shall be made for the clear inner cross section area of the parent RCC Box/Boxes and barrel length i.e. clear inner volume of parent RCC Box/Boxes.	Cum	570.00	5075.78	₹ 28,93,194.60

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
19a	31121	Extra for using GI Drag Sheet, 1.50 mm thick, for protection of track from subsidence while pushing the box as per design over item no. 031120. Note: The payment for this item shall be made for the clear inner cross section area of the parent RCC Box/Boxes and barrel length i.e. clear inner volume of parent RCC Box/Boxes.	Cum	570.00	1163.23	₹ 6,63,041.10
20	31140	Fabrication, insertion and removal of rail cluster below the running track to ensure safety of track during box pushing in correct position and alignment with Railway rails and contractors MS flats, wooden blocks, and 12 mm dia bolts etc., as per approved drawing including removing and filling back of ballast below track under traffic conditions of Electrified/Non-Electrified section with all contractors, labour, tools, tackles, consumables plants, and 50MT capacity crane and any other material required for execution of work in all respect with all lead and lift, transportation and as directed by Engineer in-charge. Payment quantity shall be as per the weight of rail in rail cluster used at site or as per approved drawing, whichever is minimum.	MT	40.00	6131.32	₹ 2,45,252.80
21	041010	Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (not requiring traffic block) on sub-structure including provision of trolley refuges etc., complete as per approved QAP and drawings conforming to IRS-B1-2001 and other relevant codes and specifications.				


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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
		Note: 1. Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. 2. The item includes fabrication of all types of battens, bracings, ties, stiffeners, packing, diaphragms, shop rivets / welding, T&F bolts, drifts, SAW, templates, jigs, fixtures, accessories, transporting various components from fabrication shop to site including loading & unloading, assembly of girders with drifts/bolts, field riveting /welding /HSFG Bolting, assembling of temporary support for side slewing, raising of girders to the bed block level, providing sliding arrangements and slewing the girder in position, lowering of girder on bearings and bed plates with all temporary arrangements or any other method of launching complete. 3. The bearing sets to be provided with the girders will be paid separately as per relevant item. 4. Payment for addition in weight for rivets / welds shall be made as per clause 45 of IRS B-1-2001. 5. In case of composite work (welding and HSFG bolts), addition in weight shall be 1% for welding and HSFG bolts shall be paid separately under relevant item. 6. Painting of girders will be paid separately under relevant item. 7. Payment Schedule: (i) Receipt of material at site: 40% (ii) Fabrication of girders: 20% (iii) Erection/Launching: 20% (iv) Completion in all respects: 20%%				
21a	041012	Open web Girder	MT	335.00	174454.97	₹ 5,84,42,414.95
22	041020	Supplying and fixing HSFG bolts of any dia and any length with suitable nuts including DTI washers conforming to IRS-B1-2001 for bridges and steel structures with contractors labour, tools and plants and lead and lift etc., complete.	Kg	3450.00	187.18	₹ 6,45,771.00
23	041040	Metallizing of steel work of girders with sprayed aluminium after surface preparation by Sand/grit blasting, followed by one coat of etchm primer (IS:5666) & one coat of Zinc Chrome primer (IS:104) and two coats of aluminium paint (IS:2339) with all labour, T&P and material as a complete job duly conforming to all relevant specifications and process given under Clause 39 of IRS-B1-2001. Note: Nominal Thickness of sprayed Aluminium coating shall be 150 microns. DFT of Zinc chrome primer shall be 25-30 microns and DFT of each coat of Aluminium paint shall be 12-14 microns.				
23a	041041	On new girder during fabrication	sqm	500.00	839.39	₹ 4,19,695.00

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
24	041050	Providing and fixing railing used in rows for footpath or anti-crash barrier railing with B class G.I. pipe 65/50 mm nominal dia including cost of M.S. angle and channels in vertical posts, welding / bolting, priming painting with one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30Microns, followed by one coat of Zinc Chrome red oxide conforming to IS:2074 with DFT of 25 Microns with all material, labour, T&P as a complete job. Note: Cost of painting shall be paid extra under relevant item	Kg	1345.00	133.24	₹ 1,79,207.80
25	052070	Grouting of masonry/concrete by injection process duly Sealing of cracks, through nipples complete as per Technical Specification and procedure given in IRBM Para No 209 including necessary admixture. Payment shall be as per use of cement by weight in case of neat cement/cement mortar grouting and weight of Epoxy in case of Epoxy Grouting. (Cement will be paid extra).				
25a	052073	Epoxy grout	kg	1000.00	1474.97	₹ 14,74,970.00
26	041080	Supplying, Fabricating and fixing access ladders, inspection platforms, Trolley refuges etc., on bridges with structural steel conforming to IS:2062 including welding / bolting, priming painting with one coat of ready mixed paint of Zinc Chromate (IS:104) with DFT of 25-30 microns followed by one coat of Zinc Chrome Red Oxide (IS:2074) with DFT of 25 microns with all material, labour, T&P as a complete job.	MT	10	118205.77	₹ 11,82,057.70

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
27	041120	Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 300MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises.				
27a	041121	POT-cum -PTFE Bearing (Free end)	Each	2	124984.37	₹ 2,49,968.74
27b	041122	POT Bearing-Fixed Type	Each	2	174271.75	₹ 3,48,543.50
28	041370	Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks, Height Gauge etc. for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge. Note: The payment shall be made on the theoretical weight of main components and gusset plates only.	MT	30	128651.97	₹ 38,59,559.10
29	USSOR-2021	Any Unforeseen item of USSOR'2021 -WCR (Rate x1.18/1.12) which are not covered in BOQ.	LUMPSUM	LUMPSUM		₹ 30,00,000.00
		Total of Schedule 1 (Including GST @12%)				₹ 14,31,78,455.75
		Total of Schedule 1 (Including GST @18%)				₹ 15,08,48,730.16
SCHEDULE 2 (DSR-2021)						


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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
30	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
30a	10.16.1	Hot finished welded type tubes	Kg	10000	154.90	₹ 15,49,000.00
31	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	350	88.50	₹ 30,975.00
32	10.2	Providing and fixing bolts including nuts and washers complete.	Kg	500	140.15	₹ 70,075.00
33	12.11	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.	Metre	800	163.65	₹ 1,30,920.00
34	12.5	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape	SQM	1200	671.55	₹ 8,05,860.00

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
35	16.43,	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately				
35a	16.43.1	Cement concrete prepared with batch mixing machine	CUM	270	9492.90	₹ 25,63,083.00
36		Any Unforeseen item of DSR -2021 (Rate x1.18/1.12) which are not covered in BOQ.	LS	LUMPSUM		₹ 25,00,000.00
		TOTAL SCHEDULE 2 (DSR-2021) Including GST @12%				₹ 76,49,913.00
		TOTAL SCHEDULE 2 (DSR-2021) Including GST @18%				₹ 80,59,729.77
Schedule-3 (LAR -M/S\LAXYOPKG 05 FOB)						
37		Providing Road vehicles mentioned below for the use of Engineer/Employer as per the condition mentioned in special conditions of contract-I.				
37a		Innova , Scorpio , or similar SUV as directed by Engineer in charge .	Vehicle/ month	16	72,363.53	₹ 11,57,816.49

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Tender No.: IRCON/2065/KSD/Tender/ ROB BRGW /Pkg-01 / 131 Date: 10.11.2023

SN	Item	Description	Unit	QTY	Rate(As per USSOR 2021)	Amount
37b		Extra for running and maintenance of every additional Km over and above 3000 KMs (Tata Sumo, Bolero , Scorpio or similar SUV) as specified in special conditions of contract -I	Km	7,000.00	18.18	₹ 1,27,268.76
38		providing service such as maintaing records of files movements , receiving & sending fax, maintaing files computer operator maintenance etc. (semi skilled) inclusive of all taxes	Man Month	16	23,629.93	₹ 3,78,078.82
39		Providing Graduate Engineer in civil discipline with 03 yrs experience for site work , design, section and maintaning records etc. inclusive of all taxes .	Man Month	16	52,931.04	₹ 8,46,896.58
		Total of Schedule 3				₹ 25,10,060.64
		Grand Total of Schedule(1+2+3) with 18% GST				₹ 16,14,18,520.57
		Add Quoted price @ 4.50% above estimated cost (in Rs)				₹ 72,63,833.43
		Grand total with 18% GST (in Rs)				₹ 16,86,82,354.00

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20.11.23

Signature
Amit C
M. K. Boddar