



CONSTRUCTION OF JAYNAGAR (INDIA) To BARDIBAS (NEPAL) RAIL LINE PROJECT

TENDER DOCUMENT FOR

Name of Work: “Construction of Drain, Retaining Wall, Concrete Road and balance work of Type II Staff quarters at Jaynagar in connection with construction of new BG Rail line from Jaynagar (India) - Bardibas (Nepal) Rail Line Project”.

Tender No: IRCON/PO/TN/JAYNAGAR-2050/21/69

Dated: 19.01.2022

FINANCIAL BID

VOLUME-2

January-2022

IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)

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BILL OF QUANTITIES

NIT No.:	IRCON/PO/TN/JAYNAGAR-2050/21/69, Dated: 19.01.2022			
Name of Work: - Construction of Road, Drain, Retaining wall and other misc. Civil work in Staff quarters at Jaynagar in connection with “ Gauge Conversion & Construction of New Broad Gauge Railway Line from Jaynagar (India) to Bardibas(Nepal)”.				
Name of Bidder				
Sl.No.	Description	Estimated Amount in INRs	% age rate quoted by Bidder above or below or at par	Total Amount/ Cost in Figures INRS
1	Execution of all item of works as per Schedule -A	54,40,374.88		
2	Execution of all item of works as per Schedule -B	67,60,273.65		
3	Execution of all item of works as per Schedule -C	8,00,000.00		
	Total Amount = Rs	1,30,00,649.00		
Total quoted Cost (In figures)				
Total quoted cost (In words)				

NOTE

1. Rate to be quoted in Indian Rupees.
2. %age rates to be quoted in both figures and words.
3. Along with percentage the tenderers should also quote either “above” or “below” or “at par”.

Signature with stamp of Tenderer
Place-

Schedule - A**IRCON INTERNATIONAL LIMITED****Jaynagar (India) - Bardibas (Nepal) Rail Line Project**

Name of Work: - Construction of Road, Drain, Retaining wall and other misc. Civil work in Staff quarters at Jaynagar in connection with " Gauge Conversion & Construction of New Broad Gauge Railway Line from Jaynagar (India) to Bardibas(Nepal)".

BOQ of SCHEDULE - A

S.N.	USSOR 2012 of ECR	Description of Items/ works	Unit	Qty	Rate	Amount in Rs
1	11010	Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap; the lift to be measured from natural ground level and paid for in layers of 1.5m each including incidental work, as per specifications.				
	11011	All kinds of soils	Cum	800	123.473	98,778.24
2	12010	Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly.	Cum	800	13.46	10,771.20
3		Providing and laying in position M-20 Grade concrete for reinforced concrete structural elements, but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge				
	41011	All work upto plinth level including raft foundation of washable aprons, HS tank, pile cap, footings of FOB and Platform shelter etc.	Cum	208	4243.83	8,82,717.06
4	91030	Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary) of average thickness 25 mm including ramming sub grade :				
	91032	Flat brick	Sqm	175	301.308	52,728.81
5	92030	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate-20mm nominal size) complete	Cum	105	4032.92	4,23,456.93
6		Supply and using cement at worksite :				
	33063	PPC	Tonne	170	7489.05	12,73,139.01
7		Centering and shuttering including strutting, propping etc. and removal of form for :				
	42011	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	180	175.64	31,615.38
8		Supplying reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete				
	45014	High yield strength deformed bars	Kg	19000	72.8398	13,83,956.20

9	13120	Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds, if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling, taxes, octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract.	Cum	250	176.822	44,205.53
10	13130	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes including cost of water, T&P, consumable material and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow.		250	18.80	4,699.00
11		Providing and laying in position M-20 Grade concrete for reinforced concrete structural elements, but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge				
	41012	All works in buildings above plinth level upto floor two level	Cum	108	4596.55	4,96,427.30
12		Centering and shuttering including strutting, propping etc. and removal of form for :				
	42012	Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	Sqm	725	288.80	2,09,378.55
13	12050	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete.	Cum	25	765.467	19,136.68
14		Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary) of average thickness 25 mm including ramming sub grade :				
	91031	Brick on edge	Sqm	525	433.857	2,27,775.14
15	131150	Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. : External Work				
	131159	100mm dia. nominal bore	metre	210	1340.9	2,81,589.86
TOTAL (A)						54,40,374.88

SCHEDULE - B

Name of Work: - Construction of Road, Drain, Retaining wall and other misc. Civil work in Staff quarters at Jaynagarin connection with " Gauge Conversion & Construction of New Broad Gauge Railway Line from Jaynagar (India) to Bardibas(Nepal)".

BOQ OF SCHEDULE OF ITEMS OF WORKS (Building Works)

Sl. No.	Item No.(DS R-2018)	Description	Unit	Qty	Rate (As per DSR-2018)	Amount (in INR)
1	2.25(a)	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	450	365.78	1,64,601.12
2	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kind of soil	cum	100	284.92	28,492.24
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III); 6 graded stone aggregate 40 mm nominal size)	cum	50	6,918.37	3,45,918.71
5	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level				
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-	cum	5	8,716.22	43,581.10
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	125	321.68	40,210.14
7	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
		Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	40	6,953.61	2,78,144.33
8	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand	cum	12	8,571.90	1,02,862.74

Sl. No.	Item No.(DS R-2018)	Description	Unit	Qty	Rate (As per DSR-2018)	Amount (in INR)
9	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	540	1,163.52	6,28,299.61
10	8.9.1	8 mm thick Stone tile (Polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 and cement slurry @3.3Kg per sqm including pointing in white cement complete				
	8.9.1.2	Grenite of any colour and shade	Sqm	52	3,305.29	1,71,875.17
11	9.1	Providing wood work in frames of doors,windows,clerestory windows and other frames,wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately)				
	9.1.3	Kiln seasoned and chemically treated hollock wood	cum	4.00	81,023.21	3,24,092.84
12	9.21	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of black board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	450	2,130.65	9,58,792.64
13	9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick				
	9.7.2	Kiln seasoned and chemically treated hollock wood	Sqm	144	2,201.74	3,17,050.52
14	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
	9.48.2.	Fixed to openings /wooden frames with rawl plugs screws etc	kg	500	207.23	1,03,613.28
15	9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :				
	9.62.2	250x16 mm	Each	216	191.98	41,467.90
16	9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
	9.70.2	100x60x2.50 mm	Each	1515	87.29	1,32,251.76

Sl. No.	Item No.(DS R-2018)	Description	Unit	Qty	Rate (As per DSR-2018)	Amount (in INR)
17	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete				
	9.97.4	150x10 mm	Each	1010	84.70	85,544.48
18	9.10	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. compl				
	9.100.2	100 mm	Each	816	59.68	48,701.74
19	9.7.7	Float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).				
	9.7.7.1	4 mm thick glass panes (Weight not less than 10 Kg per sqm)	Sqm	45	2,024.33	91,094.70
20	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	144	1,046.75	1,50,731.74
21	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
	12.41.2	110 mm diameter	Rmt	375	344.49	1,29,184.86
22	13.4	12 mm cement plaster of mix				
	13.4.2	1:6 (1 cement: 6 coarse sand	Sqm	175	297.63	52,084.73
23	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications				
	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	Sqm	1,500.00	147.09	2,20,636.99
24	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications				
	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	Sqm	100	142.07	14,206.59

Sl. No.	Item No.(DS R-2018)	Description	Unit	Qty	Rate (As per DSR-2018)	Amount (in INR)
25	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm	150	130.04	19,505.83
26	13.87	White washing with lime to give an extra shade :				
	13.87.1	Old work (two or more coats)	sqm	10500	18.92	1,98,615.64
27	13.109	Finishing walls with water proofing cement paint of required shade:				
	13.109.2	Old work (one or more coats @ 2.20 kg/10 sqm) complete	sqm	4750	67.02	3,18,363.79
28	14.10	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in- Charge				
	14.1.2	With cement mortar 1:4 (1 cement:4 coarse sand)	sqm	200.00	485.15	97,029.46
29	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
	17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	Each	36	3,215.00	1,15,740.15
30	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2.2	610x460 mm bowl depth 200 mm	Each	36	3,194.51	1,15,002.27

Sl. No.	Item No.(DS R-2018)	Description	Unit	Qty	Rate (As per DSR-2018)	Amount (in INR)
31	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
	17.18.1	litre capacity - White	Each	36	1,129.24	40,652.77
32	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	Each	36	672.50	24,209.93
33	18.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
	18.10.1	15 mm dia nominal bore metre	Rmt	530	321.74	1,70,520.91
	18.10.3	25 mm dia nominal bore metre	Rmt	740	494.63	3,66,028.72
	18.10.5	40 mm dia nominal bore	Rmt	210	722.30	1,51,683.06
34	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete				
	18.13.1	25 to 40 mm nominal bore	Each	150	760.53	1,14,079.06
35	18.15	Providing and fixing brass bib cock of approved quality :				
	18.15.1	15 mm nominal bore each	Each	144	341.67	49,200.44
36	18.16	Providing and fixing brass stop cock of approved quality :				
	18.16.1	15 mm nominal bore each	Each	144	341.67	49,200.44
37	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)				
	18.17.1	25 mm nominal bore	Each	72	561.43	40,423.07
	18.17.3	40 mm nominal bore	Each	18	766.12	13,790.11
38	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet				
	18.22.1	100 mm diameter	Each	36	171.54	6,175.46
39	18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :				
	18.31.1	100 mm diameter				
	18.31.1.1	Class I	Each	2	4,491.90	8,983.81
40	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
	18.46.3	25 mm nominal bore	Each	40	384.07	15,363.00
	18.46.5	40 mm nominal bore	Each	18	511.01	9,198.15
41	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per liter	36000	9.94	3,57,762.24
42	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	36	147.37	5,305.45
TOTAL (B)						67,60,273.65

SCHEDULE - C

Name of Work: - Construction of Road, Drain, Retaining wall and other misc. Civil work in Staff quarters at Jaynagarin connection with “ Gauge Conversion & Construction of New Broad Gauge Railway Line from Jaynagar (India) to Bardibas(Nepal)”.

SCHEDULE -C (Any Other Work required for completion of work)

S.N.	Description of work	Unit	Qty	Quoted Rate above on BOQ) Rate	Amount (in INR)
1	2	3	4	5	6
1	Any other item of works other than Schedule "A " but required to be executed for successful completion of the work as deemed necessary by the engineer and which will be as per EC Railway's Schedule of Rates, 2012	Unit shall be as per items of USSOR-2012 (ECR)	L. S.	LS	3,00,000.00
2	Any other item of works other than Schedule "B" but required to be executed for successful completion of the work as deemed necessary by the engineer and which will be as per Delhi Schedule of Rates, 2018	Unit shall be as per items of DSR-2018	L. S.	LS	5,00,000.00
				Total (C)	8,00,000.00
Total = A+B+C (Rs.)					1,30,00,649.00