



इरकॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)



IRCON INTERNATIONAL LIMITED

(A Government of India Undertaking)

Ministry of Railways

An Integrated Engineering and Construction Company

Project Office: 1/7/2 Vaishnav Nagri, Nr. Ayappa Temple, Atul-Parnera Road, Dist. Valsad – 396 001

Email: ircon.3018@ircon.org

No. IRCON/3018/DFCCTP-12/Misc. Buildings/Saphale/08-441/8931

Date: 15.10.2022

To,
M/s Piyush Enterprises,
113/114, Shubh Laxmi Shopping
Centre, Sector-9, Vasant Nagari,
Vasai (East), Palghar-401208,
Email: piyush.phpl@gmail.com
(Contact person: Mr. Paras K Purohit/Partner
Mb. 91-9975577120).

Sub: Construction of Residential Building Type-II and Type-II Keymen Quarter at Saphale & IR Keyman quaters at Kelve Road, Boisar & Palghar nearby Indian Railway Stations in the state of Maharashtra, in connection with construction of Western Dedicated Freight Corridor phase-II (CTP-12) Project Vaitarna - Sachin Section: **Letter of Acceptance.**

Ref: i) e-Tender No: IRCON/3018/DFCCIL-CTP-12/e-Tender/Misc. Bldg/Saphale/08-441 Dated 18.08.2022
ii) Corrigendum no. 1 Dated 30.08.2022
iii) Corrigendum no. 2 Dated 07.09.2022
vi) Technical Bid Opened on Dated 10.09.2022
v) Technical Bid Opened on Dated 06.10.2022

Dear Sir,

- 1) We are pleased to inform you that M/s Ircon International Limited has accepted your offer for the above subject work for a total amount of Rs. 7,28,94,878/- (Rupees Seven Crore Twenty-Eight Lacs Ninety-Four Thousand Eight Hundred Seventy-Eight Only) including GST @ 18% and other applicable taxes as per the Bill of Quantities as Annexure –A.
- 2) This letter of acceptance shall constitute a legal and binding contract between M/s Ircon International Limited and M/s Piyush Enterprises till such time the Contract Agreement is signed. You shall enter into and execute the contract agreement within 28 days from the date of issue of this letter of acceptance at the office of undersigned. You are requested to

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Email: info@ircon.org Web: www.ircon.org
CIN-L45203DL1976GOI008171



arrange the stamp duty papers of requisite value as per the prevailing laws for signing of contract agreement in terms of clause 12.5 of General condition of contract.

- 3) You are requested to submit the Performance security of Rs. 21,86,900/- (3% of Contract value) initially valid up to stipulated date of completion plus 60 days, as per clause 8.0 of General Condition of Contract. The Performance Security shall be submitted within 21 days from the date of issue of Letter of Acceptance (LOA).
- 4) In case of Performance Security submitted in BG form same shall be issued as per the format enclosed at Annexure –B in the favour of M/s IRCON INTERNATIONAL LIMITED by using Structural Financial Messaging System platform (SFMS) of the bank. The details required for BG Confirmation through SFMS platform is as under:-

a)	Name of the Bank & Branch Address of the M/s IRCON INTERNATIONAL LIMITED, DFC-CTP-12 Project, Mumbai.	Indian Overseas Bank , Aditya Chambers, Opposite Kalyan Aug., Station Road Valsad, Valsad Branch (1287) Pin Code No.396001
b)	IFSC Code of the Branch mentioned	IOBA0001287
c)	Email id of the project	ircon.3018@ircon.org

- 5) The Letter of Acceptance shall also be treated as Work Order and no separate work order will be issued.
- 6) The work shall be commenced immediately on receipt of this letter and entire work shall be completed in all respect within 06 (Six) Months in accordance with clause no. 12.0 of a special condition of contract.
- 7) You are advised to submit Program of Work in accordance with clause 20.0 of Special Condition of Contract within 15 days from the date of issue of this LOA.
- 8) All the documents that are submitted/ exchanged during tender process have to be referred at all times for clear understanding/ Interpretations of the contract conditions. Any deviation / conditions quoted by you, except those specifically mentioned in this LOA, stands deleted.
- 9) You are requested to take insurance coverage as per para 10.0 of special condition of contract.
- 10) You are advised to register with Shramik Kalyan Portal and follow labour laws as per contract. The compliances information shall be submitted to the office of General Manager on regular basis.
- 11) You are advised to submit GST number.



12) The LOA is issued in duplicate. You are requested to return a signed, stamped & acceptance copy of LOA as a token of receipt and unconditional acceptance of this Letter of Acceptance. All other terms and conditions contained in the e-tender no. IRCON/3018/DFCCIL-CTP-12/e-Tender/Misc. Bldg/Saphale/08-441 Dated 18.08.2022 shall form an integral part of the contract.

Thanking you,

Yours faithfully
For and on behalf of
Ircon International Limited



(S K Sinha)
GM/PH/SS3

Encl.: - As Above

Copy to:-

- i) PD/Mumbai
- ii) PH/SS1
- iii) AGM/Finance
- iv) JGM/Civil/SS1

GSTIN for Maharashtra: 27AAACI0684H1ZM

Annexure- A

Name of work:- Construction of Residential Buildings Type-II and Type-II Keyman Quarter at Saphale & IR Keyman quarters at Kelve Road, Boisar & Palghar nearby Indian Railway Stations in the state of Maharashtra, in connection with construction of Western Dedicated Freight Corridor phase-II (CTP-12) Project Vaitarna - Sachin Section.

e-Tender No. IRCON/3018/DFCCIL-CTP-12/e-Tender/Misc. Bldg/MH/08-441 Dated 18.08.2022

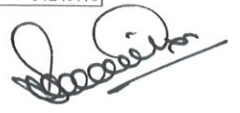
Bill of Quantity

SN	DSR Item No	Description	Unit	Rate	QUANTITY	AMOUNT
1	A.	Earth work				
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
3	2.6.1	All kinds of soils	cum	170.72	2138.75	365127.4
4	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
5	2.26.1	All kinds of soil	cum	84.86	1090.00	92497.4
6	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
7	2.28.1	All kinds of soil	Sqm	22.86	1214.63	27766.4418
8	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	1833.40	117.56	215534.504
9	2.18	Close timbering over areas including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered):				
10	2.18.1	Depth not exceeding 1.5 m	sq.m	109.14	611.74	66765.3036
11	2.18.2	Depth exceeding 1.5 m but not exceeding 3 m	sq.m	121.81	1279.42	155846.1502
12	B.	CEMENT CONCRETE				
13	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
14	4.2.3	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) (M-15)	Cum	8030.40	431.79	3467446.416
15	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50kg cemen t	53.09	178.35	9468.6015
16	C.	REINFORCED CEMENT CONCRETE				
17	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).				
18	5.33.1	All works upto plinth level	cum	7507.33	295.00	2214662.35
19	5.33.2	All works above plinth level upto floor V level	cum	8824.90	1032.00	9107296.8

20	5.34	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.				
21	5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	cum	65.48	1189.80	77908.104
22	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
23	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sq.m	267.40	876.22	234301.228
24	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sq.m	650.59	1986.06	1292110.775
25	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sq.m	518.23	3030.93	1570718.854
26	5.9.6	Columns, piers, abutments, pillars, posts and struts	Sq.m	688.75	2956.15	2036048.313
27	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sq.m	584.23	417.14	2,43,705.70
28	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	Sq.m	267.40	223.00	59630.2
29	5.9.18	Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like	Sq.m	726.30	90.00	65367
30	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sq.m	719.78	174.71	125752.7638
31	D.	WOOD WORK				
32	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).				
33	9.1.1	Second class teak wood	Cum	122207.01	14.16	1730451.262
34	9.1.2	Sal wood	Cum	98874.05	1.60	158198.48
35	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
36	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sq.m	2838.68	346.17	982665.8556
37	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sq.m	376.81	367.77	138579.4137
38	9.53	Providing 40 mm. X 5 mm. flat iron hold fast 40 cm. long including fixing to frame with 10 mm. diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30 X 10 X 15 cm. 1 : 3 : 6 mix (1 Cement : 3 Coarse Sand : 6 Graded stone aggregate 20 mm. nominal size) as per specification and as approved by Engineer-in-charge.	Nos	168.23	1508.00	253690.84
39	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with III, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc complete.	Each	942.02	121.00	113984.42
40	9.62.1	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 300x16 mm	Each	172.07	182.00	31316.74
41	9.63.1	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : 250x10 mm	Each	69.61	182.00	12669.02
42	9.65.1	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS.5930 with screws etc. complete : 300x20x6 mm	Each	76.74	182.00	13966.68

43	9.66.1	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 125 mm	Each	32.71	364.00	11906.44
44	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. plates, square or round bars etc. including priming coat with approved steel primer at complete.				
45	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	172.26	2100.00	361746
46	22.7.1	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in charge to required slope and healing similarly the adjoining walls upto 300 mm height.	Sqm	1312.82	1490.00	1956101.8
47	E.	STEEL WORK				
48	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part I and M.S. top cover of required thickness for rolling shutters.				
49	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sq.m	2763.72	24.00	66329.28
50	10.7	Providing and fixing ball bearing for rolling shutters.	Nos	394.15	3.00	1182.45
51	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.				
52	10.26.1	M.S. tube	Kg	136.73	3760.61	514188.2053
53	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
54	12.1.3	0.63 mm thick with zinc coating not less than 275 gm/ m²	Sqm	858.94	18.00	15460.92
55	16.70	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.				
56	16.7.1	Made of G.I. wire of dia 4 mm	Sqm	748.36	113.79	85155.8844
57	F.	FLOORING, DADO AND CLADDING				

58	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.	Sq.m	967.19	484.18	468294.0542
59	11.6	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.				
60	11.6.1	18 mm thick	Sq.m	489.24	235.48	115206.2352
61	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
62	11.26.1	25 mm. thick	Sq.m	1438.01	495.87	713066.0187
63	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	Sq.m	1699.16	205.23	348718.6068
64	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sq.m	31.07	212.14	6591.1898
65	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
66	11.41.2	Size of Tile 600x600 mm	Sq.m	1408.62	968.90	1364811.918
67	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, complete all as per direction of Engineer-in-Charge				
68	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern	sqm	830.55	900.00	747495
69	12.19	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:				
70	12.19.1	With common burnt clay F.P.S. (non modular) brick tiles of class designation 10:	Sqm	482.88	2336.43	1128215.318
71	H.	FINISHING				
72	13.1	CEMENT PLASTER (IN FINE SAND)				
73	13.1.2	12 mm cement plaster of mix : 1 : 6 (1 Cement : 6 fine sand)	sqm	238.68	5329.14	1271959.135
74	13.94	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work :				
75	13.94.3	150 mm diameter pipes	Rmt	36.71	388.00	14243.48



76	13.44	Finishing walls with water proofing cement paint of required shade :				
77	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	85.67	5532.65	473982.1255
78	13.41	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :				
79	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	144.06	7073.18	1018962.311
80	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at				
81	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) : 2011 (Board with BIS certification marks)	Sqm	1049.18	142.70	149717.986
82	13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	sqm	374.84	4323.85	1620751.934
83	13.16	6 mm cement plaster of mix :				
84	13.16.1	1:3 (1 cement : 3 fine sand)	sqm	213.43	1844.62	393697.2466
85	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	184.66	6518.00	1203613.88
86	I.	SANITARY INSTALLATIONS				
87	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
88	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Nos.	5089.34	16.00	81429.44
89	17.3	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
90	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid	Nos	6275.42	23.00	144334.66
91	17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
92	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	Nos	8787.11	12.00	105445.32

93	17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
94	17.37.1	For 100 mm dia pipe	Nos	269.85	150.00	40477.5
95	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:				
96	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Nos	2898.53	30.00	86955.9
97	17.60	Providing and fixing sand cast iron trap of self cleansing design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors.				
98	17.60.1.1	100 mm inlet and 100 mm outlet: 1 Sand cast iron S&S as per IS: 3989	Nos	1419.88	31.00	44016.28
99	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Nos	1204.45	31.00	37337.95
100	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.				
101	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.	Nos	559.01	31.00	17329.31
102	17.35	Providing and fixing soil, waste and vent pipes :				
103	17.35.1.1	100 mm dia.: Sand cast iron S&S pipe as per IS: 1729	metre	946.43	51.00	48267.93
104	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete				
105	17.28.1.2	Semi rigid pipe, 40 mm dia	each	92.37	48.00	4433.76
106	17.34	providing & fixing toilet paper holder				
107	17.34.1	C.P. brass	Nos	548.00	33.00	18084
108	17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
109	17.65.1	100 mm. diameter pipe	Nos	60.28	6.00	361.68
110	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Nos	148.85	49.00	7293.65
111	17.22	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	Nos	109.00	48.00	5232
112	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	122.51	14.00	1715.14
113	J.	WATER SUPPLY				
114	18.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps,i/c cutting and making good the walls etc.				
115	18.10.1	15 mm. dia. nominal bore	Rmt	267.44	162.00	43325.28

116	18.10.1	20 mm. dia. nominal bore	Rmt	323.02	167.00	53944.34
117	18.10.3	25 mm. dia. nominal bore	Rmt	411.16	167.00	68663.72
118	18.10.4	32 mm. dia. nominal bore	Rmt	497.25	210.00	104422.5
119	18.10.5	40 mm. dia. nominal bore	Rmt	600.41	210.00	126086.1
120	18.10.6	50 mm. dia. nominal bore	Rmt	738.55	185.00	136631.75
121	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				
122	18.12.4	External work : 32 mm. diameter pipe.	Rmt	398.68	60.00	23920.8
123	18.12.5	External work : 40 mm. diameter pipe.	Rmt	453.55	60.00	27213
124	18.19	Providing and fixing gun metal non-return valve of approved quality (screwed end) :				
125	18.19.4.1	50 mm. nominal bore: (i) Horizontal	Nos	1073.96	15.00	16109.4
126	18.19.4.2	50 mm. nominal bore: (ii) Vertical	Nos	1174.45	15.00	17616.75
127		Providing and fixing gun metal non-return valve of approved quality (screwed end) :				
128	18.19.5.1	65 mm. nominal bore: (i) Horizontal	Nos	1918.73	4.00	7674.92
129	18.19.5.2	65 mm. nominal bore: (ii) Vertical	Nos	1931.31	4.00	7725.24
130	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 :				
131	18.13.2	50 to 80 mm nominal bore	No	1344.97	18.00	24209.46
132	18.38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :				
133	18.38.1	15 mm. diameter pipe.	Rmt	14.27	152.00	2169.04
134	18.38.2	20 mm. diameter pipe	Rmt	17.04	152.00	2590.08
135	18.38.3	25 mm. diameter pipe	Rmt	22.25	152.00	3382
136	18.38.4	32 mm. diameter pipe.	Rmt	26.66	205.00	5465.3
137	18.38.5	40 mm. diameter pipe	Rmt	31.35	205.00	6426.75
138	18.38.6	50 mm. diameter pipe	Rmt	37.36	185.00	6911.6
139	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality Leader make (screwed end)				
140	18.17.1	25 mm. nominal bore	Nos	466.70	13.00	6067.1
141	18.17.2	32 mm. nominal bore	Nos	545.64	15.00	8184.6
142	18.17.3	40 mm. nominal bore	Nos	636.84	15.00	9552.6
143	18.17.4	50 mm. nominal bore	Nos	815.95	13.00	10607.35
144	18.48	Providing and placing on terrace polyethylene water storage tank ISI : 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.	Litre	8.27	93750.00	775312.5
145	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
146	18.49.1	15 mm nominal bore	Each	393.29	52.00	20451.08
147	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
148	18.22.2	150 mm diameter	Each	177.23	25.00	4430.75
149	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
150	18.52.1	15 mm nominal bore	Nos	569.11	46.00	26179.06
151	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
152	18.53.1	15 mm nominal bore	Nos	499.41	36.00	17978.76

153	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
154	18.51.1	15 mm nominal bore	Nos	518.51	46.00	23851.46
155	18.56	Providing and fixing PTMT pillar cock of approved and colour				
156	18.56.1	15 mm nominal bore, 107mm long. Weighing not less than 110 gms	Nos	180.85	8.00	1446.8
157	17.11	Providing and fixing white vitreous china laboratory sink, including all connection excluding the cost of fittings				
158	17.11.2	Size 600x450x200mm	Nos	5125.91	28.00	143525.48
159	K.	ROOFING (RAIN WATER PIPES)				
160	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.				
161	12.41.2	Single socketed pipes, 110 mm. diameter.	Rmt	286.37	115.10	32961.187
162	12.42.5.2	Bend 87.5, 110 mm. dia.	Nos	121.90	30.00	3657
163	12.38	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :				
164	12.38.2	150 mm. diameter holder bat clamps	Nos	288.66	160.00	46185.6
165	12.44	Providing and fixing the inlet mouth of rain water pipes cast iron grating 15cm. diameter weighing not less than 440 grams.	Nos	44.37	44.00	1952.28
166	L.	Tube Well				
167	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer - in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
168	23.1.1.1	All types of soil: 300 mm dia	metre	480.91	237.50	114216.125
169	18.44	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well.	metre	407.37	237.50	96750.375
170	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
171	23.3.1	150 mm nominal size dia	metre	563.57	100.00	56357
172	M.	DRAINAGE				
173	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
174	19.1.1	(a) 100mm, diameter	Rmt	297.63	222.50	66222.675
175	19.3	Providing and laying cement concrete 1:5:10 (1 cement: 5coarse sand: 10 graded stone aggregate 40mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design				
176	19.3.1	100mm diameter S.W. pipe	Rmt	364.51	222.50	81103.475
177	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				

178	19.6.2	150 mm dia. R.C.C. pipe	Rmt	434.27	230.00	99882.1
179	19.30	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 Fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:				
180	19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Nos	5690.55	24.00	136573.2
181	19.30.1.1	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Nos	7584.30	2.00	15168.6
182	N.	MANHOLES				
183	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
184	19.7.1.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	10236.93	9.00	92132.37
185	19.7.2.1	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	21534.19	9.00	193807.71
186	19.33	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	Each	2448.21	10.00	24482.1
187	O.	ALUMINIUM WORK				
188	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling. C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				

189	21.1.2.1	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately): Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). NOTE :- The anodising shall be in bronze anodised or any other shade /colour as directed by the Engineer	Kg	481.95	6865.24	3308702.418
190	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
191	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	Sq.m	938.37	456.92	428760.0204
192	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
193	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	87.92	1787.50	157157
194	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	122.97	1750.00	215197.5
195	P.	Misc Item Misc.DSR -2018 (VOL-1 & 2)				
196		DSR 2018 of DSR items requiring for successful completion of the work as advised by Engineer- in-charge of the work.	LS	4500000.00	1.00	4500000
197	9.1.1	Second class teak wood	Cum	135785.57	0.00	0
198	15.5	Demolishing RCC	Cum	2643.78	0.00	0
199	15.3	Cutting reinforcement	Sqm	900.50	0.00	0
200	13.2	Pebble-plaster upto 10m ht. above Ground level with admixture	Sqm	666.45	400.00	266580
201	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in charge to required slope and healing similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.				

		(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and directed and specified by the Engineer-in Charge.				
202	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	0.00	1490.00	0
203	Q.	Other Items				
204	1	Cutting, bending, placing and tying of steel reinforcement including all machinery, materials, binding wire,labours etc. at any level including all leads and lifts as per drawings and technical specifications. Full length rebar will be supplied by IRCON at contractor's depot free of cost.				
205		Thermo-mechanically Treated bars	kg	12.67	404418.96	5123988.223
206	26.29	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.				
207	26.29.1	Bars upto 12 mm diameter	metre	6.15	800.00	4920
208	26.29.2	Bars above 12 mm diameter	metre	12.31	800.00	9848
209	NS	Filling in plinth and floors with contractor's material brought from outside and approved by Engineer incharge in layers 15cm and 20cm including watering and compaction ,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.	cum	539.17	4565.00	2461311.05
210	NS	Disposal of surplus earth/ unsuitable material to the contractor own dumping site as detected by Engineer in charge. The rate shall include all lead, lifts ascend ,descend transportation, labour, taxes, cost of land (if any) etc all complete.	cum	22.99	4313.01	99156.0999
211	NS	Applying two coats of approved bituminous waterproofing compound behind abutments	Sq.m	41.37	2358.07	97553.3559
212	NS	Providing and constructing Precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to IS:2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing etc., complete , with all lead and lift, including conveyance of all material, equipments,labour charges, hire charges of all machineries and all other incidental charges, etc complete as per specifications and directions of the engineer incharge of work.				
213	NS	cement Mortar 1:6 (1 cement :6 coarse sand)	Cum	6229.22	1126.67	7018275.297
214	NS	Extra over above item for brick work in superstructure beyond plinth level upto floor two	Cum	603.76	1126.67	680238.2792

215	NS	Providing and Applying Pre-construction Anti-Termite Treatment to proposed structure,with application of Imidacloprid 30.5% SC @0.075% Concentration mixed with water in ratio of 1.475, as per detailed specification given in Indian Railways Standard Specification, so as to create a chemical barrier below and around the structure by an approved	sqm	104.21	3917.98	408292.6958
216	NS	Providing and laying rubble stone soling with boulders and packed with surface levelled with hammer dressing as necessary on the ground including filling the gaps with quarry spalls and sand complet including cost of supply of all materials, labour, lead, lift, tools, plants, ascent/descents, taxes, royalty, octroi etc. as a complet job as per drawing and technical specification as directed by engg-in charge.	Cum	1827.35	843.68	1541698.648
217	NS	Providiing, laying, spreading and compacting of granular sub-base (GSB) as per drawings & specifications, all material, manpower, machinery & other resources complete.	cum	1392.71	1950.00	2715784.5
		Sub Total amount (Rs)				7,13,88,579.00
				Excess	2.11%	15,06,299.00
		Grand Total (Including GST @ 18%) in INR				7,28,94,878.00



ANNEXURE-B

(to be executed on a non-judicial stamp paper of requisite value)

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To

IRCON INTERNATIONAL LIMITED,

[Acting through _____ (Project In charge) & Address of the Project]

WHEREAS _____ [name and address of contractor] (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute the work of "-----"

(hereinafter called "then Contract.");

AND WHEREAS it has been stipulated by you in the said Contract that the contractor shall furnish you with a Bank Guarantee by a Scheduled Bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of

the Contractor, up to a total of _____ [amount of Guarantee], _____ [amount in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we unconditionally agree and undertake to pay you, without any demur or protest, at once, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of Guarantee] as mentioned in demand letter, without requiring you to prove or to show grounds or reasons for your such demand for the sum specified therein, in the first letter of invocation.

We hereby waive the necessity of your demanding the said amount from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid upto _____ (a date 60 days from the date of completion of the work).

We, the _____ Bank further agree that this guarantee shall be invokable at our place of business at Valsad/Project HQ (indicate detail address of branch with Code No.). * The branch at Valsad/Project HQ is being advised accordingly.

This Bank Guarantee shall be operative only if it is accompanied by a separate advice sent by _____ (Name of issuing Bank, with address) on _____ (Name of Employer's Bank, with address) IFSCCode _____ through Structured Financial Messaging System (SFMS) and authenticated by the Employer's bank.

SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank:

Address:

Date:

*The Bank should indicate detailed address of Valsad/Project HQ branch along with its Code No.

