



इरकॉन इन्टरनेशनल लिमिटेड

(भारत सरकार का उपक्रम)

छत्तीसगढ़ रेल परियोजना

IRCON INTERNATIONAL LIMITED

(A Govt. of India Undertaking)

An Integrated Engineering and Construction Company

CHHATISGARH RAIL PROJECT



No. IRCON/2059/CGRP/e-TENDER/23-24/KHS-DHARAM/BSP-63/15054

Dated. 31.10.2023

To

M/s Ashok Kumar Mittal,
HIG-02, M.P.Nagar, Korba,
Chhattisgarh 495677,
PH No: 9009132000

Email Id: akmkorba@gmail.com

(Letter of Acceptance)

Sub: Construction of Station Buildings and Freight Loading Facilities in Spur line between Bhalumuda (Km 13.375) and Gare Pelma (Km 30.668) section in connection with the construction of New BG Electrified Railway Line of East Corridor-I between Kharsia (Km-0) to Dharamjaigarh (Km-74.0) with a Spur from Gharghoda to Gare Pelma in the State of Chhattisgarh over South East Central Railway- **Letter of Acceptance**

Ref: i. NIT No: IRCON/2059/CGRP/e-TENDER/23-24/KHS-DHARAM/BSP-63 Date: 01.09.2023

ii. Technical Bid Opened on 22.09.2023 and financial bid opened on 13.10.2023

With reference to the above, this is to inform you that your offer for the subject work has been accepted by Competent Authority for and on behalf of IRCON International Limited at a total cost of **Rs. 9,04,43,094.17/- (Rupees Nine Crore Four Lakhs Forty-Three Thousand Ninety-Four and Seventeen Paissa) including GST.** The summary of BOQ accepted by the Competent Authority is enclosed herewith as **Annexure-I.**

The important terms and conditions of the above tender is mentioned in brief below, however the clauses as mentioned in the tender document shall be final and binding.

1.0 Performance Security

1.1 In term of SCC clause no. 13.0, you are requested to submit performance security within 21 (twenty-one) days from the date of issue of letter of acceptance (LOA) in the form of irrevocable bank guarantee on the Performa annexed as Annexure-II for an amount of **Rs 48,25,656.00/- (Forty Eight Lakh Twenty Five Thousand Six Hundred Fifty Six Rupees only) @ 5% (Five percent) of the contract value plus additional Performance Guarantee from any scheduled bank having validity initially up to 60 days beyond the stipulated date of completion i.e. 30.05.2024 (Stipulated Date of completion 31.03.2024 + 60 days).**

2.0 Completion Period and Programme Submission.

2.1 In term of SCC clause no. 10.0, completion period of the work is **05 (Five) months** from the date of issue of letter of acceptance including monsoon period i.e. **up to 31.03.2024.** The work has to be executed in co-ordination with other agencies working on or near the project.


31/10/2023

प्रथम तल, नार्थ एवेन्यू, तखतपुर रोड, उसलापुर,
बिलासपुर (छ.ग.) 495001
1st Floor, North Avenue, Takhatpur Road,
Uslapur, Bilaspur 495 001 Tel : 07752-443719

रजि. कार्यालय : सी. - 4, डिस्ट्रिक्ट सेंटर, साकेत, नई दिल्ली-110017, भारत
Regd. Office : C-4, District Center Saket, New Delhi-110017 INDIA
Tel. : +91-1129565666 Fax: 91-11-26854000, 26522000
Email : info@ircon.org web : www.ircon.org



CIN-L45203DL1976GOI008171

2.2 In term of SCC Clause no. 10.0, you are requested to submit within 7 (seven) days of issue of letter of acceptance and before the work is commenced; **a detailed programme for each major element of the work, using the modern networking techniques for project monitoring, for approval of the Engineer.** The construction programme will show the general methods, arrangements, order and timing for all significant activities in the works identifying the critical path for the work clearly, along with monthly cash flow. The programme shall clearly provide for and indicate the time required for the preliminaries before starting the work and shall indicate the details of commencement and completion of the various sections of the work.

3.0 Accepted Rates and Price Variation:

The quoted rates shall be deemed to include all the cost towards the scope of work of contractor as detailed in the tender documents including cost of all materials, labour, plant and machinery, supervision, overhead, profit, insurances including transit insurance, replacement/ correction of defective works, incidentals etc. and all the taxes and duties etc complete. Nothing extra over the accepted rates will be payable unless noted expressly otherwise in the tender documents. However, the contract price adjustment/price variation shall be dealt as per clause No.9 of SCC.

4.0 Variation in Quantity:

In term of SCC Clause no. 19.0, variation in quantities shall be dealt as per Clause 58 and 59 of general condition of contract.

5.0 Maintenance and Defect Liability Period:

The Contractor shall maintain, rectify and make good at his own cost any defect/deficiencies, which may develop in the work or as notified by the Engineer during Defect Liability Period for 12 months from the date of completion of the work. Maintenance and defect liability period shall be dealt as per clause No 11 of SCC.

6.0 Insurance:

In term of SCC clause no. 12.0, before commencement of works, you are requested to obtain insurance cover as per the details provided in the clause.

7.0 Contract Agreement:

In term of SCC clause no. 15.0, you have to attend the office of Project Director/CGRP, IRCON Project Office, Bilaspur, Chhattisgarh for signing of contract agreement within 28 days of the issue of LOA. Format of contract agreement is enclosed as **Annexure-III**. The stamp papers of the requisite value as per the prevailing laws shall be provided by the contractor at his own cost. Original agreement shall be retained by the Employer/ Engineer and a certified copy shall be made available to the contractor.

8.0 Deployment of Engineers (SCC Clause no 14)

8.1 The Contractor shall provide and keep on the works, during the execution of the works, efficient and competent Engineers to ensure that the work is executed strictly as per provisions of the Contract. It shall be the obligation on the part of the Contractor to provide the following minimum Engineering staff at site:



Sn.	Position/Qualification	Minimum Requirement
1	Project Manager – Degree holder with minimum experience of 15 years in the field of building works.	1 No.
2	Engineer (Quality Control, Environmental & Safety) - Degree holder with minimum experience of 5 years/ Diploma holders with minimum experience of 7 years in the field of construction activity.	2 No.
3	Site Engineer (Civil) - Degree holder with minimum experience of 3 years/ Diploma holders with minimum experience of 5 years in the field of building works.	2 No.
4	Surveyor- Degree holders with minimum 3 years or 5 years for Diploma holder in the field of construction	2 No.

In addition to the above, requisite number of staffs for testing and other supervisory staff shall be deployed by the Contractor. Contractor should deploy one survey team with requisite equipment's for planning, marking layout and checking alignment, levels etc during construction.

8.2 In case, the Contractor fails to deploy sufficient Engineers as described above, the Engineer/ Employer shall be entitled to recover the following amounts from the dues of the Contractor:

1	Non-Deployment of Project Manager.	Rs. 80,000/- per month or part thereof
2	Non-Deployment of Engineer (Quality Control, Environmental & Safety)	Rs. 50,000/- per month or part thereof
3	Non-Deployment of Site Engineer (Civil)	Rs. 40,000/- per month or part thereof
4	Non-Deployment of Surveyor	Rs. 40,000/- per month or part thereof

Also, in case of failure of contractor to provide Project Manager/Engineers, IRCON reserves the right to engage them of its own out of the penal amount recovered as per above rate against specific category.

9.0 Inspection Vehicles and site office (SCC clause No.3.9):

9.1 You will provide **01 (One) no. inspection vehicle (Model- Mahindra Scorpio / TUV/ Bolero Neo or similar) in good condition (model not older than 03 years)** for site movement of Engineer, Engineer's representative and bear all expenditure in this regard including running cost up to 4000 km/month/Vehicle or Cumulative 50,000Km/year/Vehicle during the entire period of contract till completion of work including time extension, if any, and issue of certificate thereof.

In case, the vehicles are not provided by the contractor, it will be hired from open market and charges will be recovered from the contractor's bills/dues as decided by the Engineer.

9.2 Site office: (SCC Clause No 3.10)

You will set up reasonably furnished site office at one location (as decided by Engineer) with in project reach with office of about **100 sqm** by hiring a building building/ Porta cabin structure with the proper electric arrangement, water supply and sanitary fittings with good roofing & flooring for the exclusive use of the Engineer.

You will also provide **01 bell boy in office for official working in the site office**. In case, the office and/ or bell boys are not provided by the contractor, suitable recovery at the prevailing rate of state Govt's minimum wages per bell boy per month or part there off will be made from the contractor's bills/dues towards compensation of cost against these arranged by IRCON. Location of site offices will be decided by the Engineer.

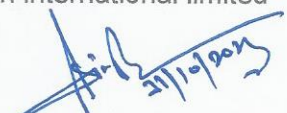
10 Security Deposit/ Retention Money

Retention money will be recovered from on account/final bills as per clause no. 13.2 of Special Condition of contract and 8.2 of GCC.

- 11 You are advised to mobilize the resources to commence the work immediately. Please contact the project office, address-IRCON INTERNATIONAL LIMITED, 1st Floor, North Avenue, Takhatpur Road, Uslapur, Bilaspur, Chhattisgarh-495001 or **the undersigned for further instructions**.
- 12 Conditions mentioned above in this LOA are a brief reference of the terms of tender document. Detailed terms & conditions shall be as per NIT, Tender document & corrigendum, which shall be an integral part of this contract and shall be binding on you.
- 13 Priority of document shall be as per clause No. 1.0 of SCC.
- 14 As per clause No 07 of integrity pact (enclosed as Annexure VI to ITT), the legal jurisdiction for this contract shall be New Delhi.
- 15 This letter of acceptance, along with your submitted offer, shall constitute a binding contract between **M/s Ashok Kumar Mittal and Ircon International Limited**, till a formal agreement is drawn and executed.
- 16 **This letter being issued in duplicate. You are requested to return one copy of this letter of acceptance duly accepted, signed & stamped on each page by your authorized representative.**
- 17 **You are requested to commence the work immediately.** The entire work shall be completed within a period of **05 months including monsoon period** from the date of issue of this LOA i. e. **31.03.2024**.

Encl: Annexure-I (BOQ)
Annexure-II (PBG Format)
Annexure-III (Format of contract Agreement)

Yours faithfully,
For and on behalf of
Ircon international limited


(Surender Singh)
Project Director/CGRP

Copy for information and necessary action please:
CEO/CERL, GM/Finance, AGM/Civil/Raigarh, AGM/Civil/P&C.

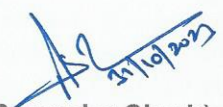
ANNEXURE-I

Name of Work: Construction of Station Buildings and Freight Loading Facilities in Spur line between Bhalumuda (Km 13.375) and Gare Pelma (30.668) section in connection with the construction of New BG Electrified Railway Line of East Corridor-I between Kharsia (Km-0) to Dharamjaigarh (Km-74.0) with a Spur from Gharghoda to Gare Pelma in the State of Chhattisgarh over South East Central Railway.

ABSTRACT OF BILL OF QUANTITIES

Sl.No	Schedule	Description	Basic Amount (Rs)
1	Schedule-A	Road Works	26,42,993.00
2	Schedule-B	Station Buildings, Quarters & Platform Works (CIVIL)	4,01,27,309.00
3	Schedule-C	Steel items	1,98,19,149.00
4	Schedule-D	Other items of Work not covered by above schedules (SECR-USSOR-2010)	56,50,000.00
5	Schedule-E	General Electrical Works of Station Building, Loading Platform etc.	1,74,95,101.00
Total Basic amount			8,57,34,552.00
GST @ 18%			1,54,32,220.00
Total Estimated Cost (Rs.)			10,11,66,772.00

Rate %/Below/Above/At Par	:	(-) 10.60% Below
Total Basic amount	:	Rs. 7,66,46,689.49
GST @ 18%	:	Rs. 1,37,96,404.68
Total Awarded Value	:	Rs. 9,04,43,094.17 (Rupees Nine Crore Four Lakhs Forty-Three Thousand Ninety-Four and Seventeen Paise only) including GST


(Surender Singh)
Project Director/CGRP

BILL OF QUANTITIES:

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
	<u>Schedule (A) :Road Works</u>				
1	Construction of sub-grade with Material Obtained from Borrow Pits/Borrow Area (Construction of sub-grade with approved material/selected soil having C.B.R.>8 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2) Note: Rate includes royalty on borrow soil @ Rs.50/ cum +GST @18%. any increase/decrease in royalty on earth will be reimburse/deducted from accepted rate.	cum	1500	276.31	414465
2	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, , carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401 as per MORTH specifications.				
A	Plant mix method (with Mechanically crushed stone only)				
(a)	For Lower Sub-base with				
(i)	Grading-IV Material	cum	900	1601.22	1441098
3	Wet Mix Macadam (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per clause 406 as per MORTH specifications.)	cum	500	1574.86	787430
	Total of Schedule (A)				2642993
	<u>SCHEDULE B- Station Buildings, Quarters & Platform Works (CIVIL)</u>				
1	Earthwork in excavation as per approved drawing at embankment site or spoil heap, within railway land including 50m lead and 1.5 metre lift, the lead to be measured from centre of gravity to spoil heap, the lift to be measured from natural ground level and paid for in layers of 1.5m eah, including incidental work as per specification in all kind of soils. And dressing and plumbing sides for foundation for building & bridges , to cover dressing to neat dimension and plumbing sides etc ,approved materials and consolidation of the layers by ramming and watering etc , including all lift, disposal of surplus soil up to a lead of 300 metre, all types of shoring and strutting with all I labours and material complete as per drawing and technical specifications as directed by Engineer in charge.In all kind of soil	Cum	5470.38	126.69	693043
2	Supplying and filling sand in plinth and under floor including watering, ramming, consolidating and dressing complete.	Cum	1060	800.23	848244
3	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	Cum	7665	263.06	2016355



S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
	cost.				
4	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 incl. cost of water, T&P consumable	CUM	7665	18.92	145022
5	Filling, watering and ramming earth in 15 cm layers in floors and foundations with surplus earth from foundations including 50m lead and 1.5m lift	Cum	3920	25.95	101724
6	Supply of mooram for platform surfacing	CUM	10000	398.32	3983200
7	Providing & laying of position cement concrete of 1:4:8 including cost of cement but excluding cost of shuttering & centering-in Levelling course with graded stone aggregate 40mm nominal size.	Cum	269	3191.84	858605
8	Providing and fixing M 15 grade cement concrete in string or lacing courses, coping, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, etc. upto floor two level, including hoisting and setting in position with cement mortar in Coping precast (including cost of cement)	CUM	350	5319.04	1861664
9	Providing & laying of position cement concrete of 1:2:4 including cost of cement but excluding cost of shuttering & centering- all works with graded stone aggregate 20mm nominal size.	Cum	210	4574.83	960715
10	Providing & and applying pre-construction Anti- Terminate treatment to proposed structure with application of Imidacloprid 30.55 SC @ 0.075% as per detailed specifications given in Indian Railways Standard Specifications, so as to create a chemical barrier below and around the structure by an approved agency	Sqm	1230	102.73	126358
11	Providing and laying in position M25 grade Designe Mix concrete for reinforced concrete structural elements with all materials including cement, admixtures, etc but excluding cost of centering, shuttering, reinforcement, as per direction of Engineer in Charge.				
A	All work	Cum	1303	5892.32	7677693
12	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	1405	156.07	219279
b	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	2226	276.04	614466
c	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	1963	242.29	475616
d	Columns, pillars, posts and struts	Sqm	1126	333.01	374970
e	Stairs (excluding landings) except spiral-staircases	Sqm	120	296.61	35594
f	weather shade, chajjas, corbels etc. including edges	Sqm	106	409.89	43449
g	Edges of slabs and beams in floors and walls under 20cm wide	Sqm	221	88.2	19493
h	Walls(any thickness) including attached plasters,butresses	Sqm	3720	265.73	988516
13	Brickwork with Clay Fly Ash (fps) Bricks of class designation 7.5 in superstructure including cement with cement mortar 1:6 (1 Cement :6 fine Sand)				
a	Up to plinth Level	Cum	712	3673.94	2615846

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
b	Extra over item 14a for all works above plinth level upto floor two level	Cum	612	198.89	121721
c	Extra over item 14a for brickwork in superstructure beyond second floor level for every 3m or part thereof	Cum	206	380.5	78383
14	Half brick masonry with bricks of class designation 7.5 in foundations and plinth in : with cement mortar 1:3				
a	Up to plinth level	Sqm	410	422.32	173152
b	Extra over item (15a) for half brick masonry in superstructure above plinth level up to floor two level	Sqm	410	54.98	22542
c	Extra over item 15 a+15b for half brick masonry in superstructure above floor two level for every floor or part thereof.	Sqm	210	20.3	4263
15	15 mm thick cement plaster of prop 1:6.Inside plaster (Including Cement)	Sqm	3040	121.45	369208
16	12 mm thick cement plaster of mix 1:4 Ceiling plaster (Including Cement)	Sqm	2026	118.48	240041
17	12 mm thick cement plaster of mix 1:4 Outside plaster (Including Cement)	Sqm	3380	118.48	400463
18	Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete of Group B-I-a of IS : 15622 (Vitrified tiles) of size 600x600 mm (including cement)	Sqm	114	1247.87	142258
19	Cement concrete flooring 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate) finished with a floating coat of neat cement including cement slurry complete of 50 mm thick with 20mm nominal size stone aggregate.	Sqm	930	314.39	292383
20	Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete Group B-II clause 5.1 (for abrasion resistance) of IS : 15622 (Ceramic floor tiles) of size 300X300mm and above (including cement)	Sqm	100	849.26	84926
21	Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete of size 300 x 300mm and above. (including cement)	Sqm	600	757.8	454680
22	Providing and fixing 10mm thick heavy duty acid and/or alkali resistant factory made tiles conforming to Group V-RD series of approved make and colour using acid and/or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS: 4457 complete including cost of acid/alkali resistant cement				

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
	In flooring on a bed of 10mm thick mortar 1:4 (1 Appropriate cement : 4 coarse sand) (including all materials)	Sqm	350	1208.33	422916
23	Providing & fixing Precast Chequered tiles conforming to IS:13801:1993, manufactured under mechanical vibration & hydraulic pressing machine in double layer; top layer of 10 to 12 mm thickness of Dolomite Powder, graded chips, fibre and UV stabilised iron				
	300mm x 300mm x 30mm thick	Sqm	200	810.59	162118
24	Kota stone slab flooring of size up to 60x60cm over 20mm (average) thick base of 1:4 cement mortar (1cement: 4coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete 25mm tk.as per instruction of Engineer incharge.(including cement and all materials)	Sqm	1700	1276.01	2169217
25	Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels Granite Black. (including cement and all materials)	Sqm	100	3192.51	319251
26	Extra for providing edge molding to 16mm to 20mm thick marble/granite stone counters, vanities etc including machine polishing to edge to give high gloss finish etc. complete as per design approved by the Engineer-in-Charge. On granite work.	Mtr.	100	172.35	17235
27	Providing and fixing 600x450mm beveled edge mirror , 5.5 mm thick of float glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	20	965.05	19301
28	Providing & laying water-proof treatment on roof slabs by applying after preparation, cement slurry mixed with Tapecrete acrylic based polymer water proofing compound (having solid content 30% $\pm$ 2, pH >7) in a ratio of 2:1 (2 cement : 1 water proofing compound in a ratio 2:1 followed by laying of fiber glass cloth, 2nd coat of cement slurry mixed with water acrylic based polymer water proofing compound and a final coat of water proofing compound brush topping having water proofing compound, cement and coarse sand @ 1:2:2 by weight complete job to be carried out as per specifications	Sqm	1515	395.12	598607
29	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc. by applying cement slurry mixed with water proofing cement compound as per IS 2645 in layers a) 1st layer of slurry of cement @ 0.488kg/ Sqm mixed with water proofing cement @ 0.488kg/ Sqm mixed with waterproofing cement compound @ 0.253 lit/Sqm, allowed to air cure for 4hours.(b) 2nd layer of slurry of cement @ 0.242kg/ Sqm mixed with water proofing cement compound @ 0.126 lit/Sqm, allowed	Sqm	45	185.2	8334

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
	to air cure for 4 hours followed with water curing for 48 hours. Rate includes preparation of surface, treatment, sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. Rendering/ plastering as protective layer, if required will be paid separately				
30	Providing and fixing to IS: 2202 Part-1 marked flush door shutter decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters, 35mm thick including ISI marked stainless steel butt hinges with necessary screws	Sqm	105	2517.17	264303
31	Providing wood work in frames of doors window, clerestory windows and other frame sand trusses, wrought, framed and fixed in position in second class teak wood	Cum	5	104615.37	523077
32	Providing and fixing panelled/glazed of panelled and glazed shutter for dooors, window and clerestory windows including ISI marked black enamelled MS butt hinges with necessary screws excluding, panelling glazing which will be paid separately second class teak wood ,35 mm thick	Sqm	60	2716.95	163017
33	Providing and fixing fly proof stainless steel wire gauge to windows and clerestory windows using stainless steel wire gauge with average width of aperture 1.4mm in both directions in track of aluminium windows and with 2nd class teak wood beading 50x20mm in ventilators and exhaust fan openings.	Sqm	60	2570.49	154230
34	providing and fixing in position collapsible steel shutter with vericle channel 20x10x2mm and braced with flat ircondiaogonal 20x5mm size with top and bottom Rail of T-ircon 40x40x6mm with 40mm dia steel pulleys complete with bolts,nuts, locking aarangement,stoppers,handle and hold fastes including applying of priming coat of approved steel primer.	Sqm	40	3682.12	147285
35	Providing and fixing of fibre glass reinforced plastic(FRP) door frames of three legged of cross section 90mmx45mm having single rebate of 32mmx15mm to receive shutter of 30mm thickness.The laminated door frame moulded with the fire retardant grade unsaturated polyster resin and chopped mat. Door frame laminated shall be 2 mm thick and shall be filled with suitable wooden block in all three legs. The frame shall be covered with fibre glass form all sides.M.S stay shall be provided at the bottom to ready the frame.	RM	70	771.85	54030
36	Providing and fixing 30mm thick glass fibre reinforced(FRP) panelled door shutter of required colour and approved brand and manufactue made with fire retardant grade unsaturated polyester resin ,moulded to 3mm thick FRP laminated for framing hollow rails and styles with wooden frame and suiatable block of seasoned wood inside at required places for fixing of fittings , cast monolithically with 5mm thick FRP laminated panels and conforming to IS 14856-2000) complete work.	Sqm	20	3769.24	75385

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
37	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. fixed to opening/ wooden frames with rawl plugs screws etc. all complete	Kg	15200	93.48	1420896
38	Construction of Brickwork handrail for stairs	Mtr.	40	1150.1	46004
39	Providing and fixing aluminium sliding door 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 nuts and screws etc. complete. 250x16mm.	Each	14	210.43	2947
40	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 of		0	0	0
40.1	Size 250mmx10mm	Each	28	87.48	2450
40.2	Sie 150 MMx10mm	Each	20	66.13	1323
41	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. complete of size 125mm				
41.1	125 mm	Each	20	62.79	1256
41.2	100 mm	Each	20	51.68	1034
42	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868 Single rubber stopper	Each	100	36.85	3685
43	Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete	Sqm	5252	93.85	492901
44	Distempering two or more coats on new work with 1st quality acrylic washable distemper (ready mixed) of approved manufacturer and of required shade and colour complete as per manufacturer's specification	Sqm	5266	45.33	238708
45	White washing with lime to give an even shade on new work (three or more coats)	Sqm	3289	11.48	37758
46	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade on new work (Two or more coats applied @ 1.43ltr/10 Sqm over and including one coat of water proofing cement paint applied @ 2.20 kg/10 Sqm	Sqm	3880	96.61	374847
47	Providing and fixing wash hand basin with CI/MS 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 required , White vitreous china wash basin of size 550X400 mm with 15mm C.P. Brass pillar taps.	Each	20	1999.8	39996

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
48	Providing and fixing stainless steel AISI-304 (18/8) kitchen sink without drain board 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.				
48.1	610X460mm bowl depth 200mm	Each	4	4385.24	17541
49	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete- Flexible pipe 32 /40mm dia.	Each	20	86.31	1727
50	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	1000	13.49	13490
51	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade on steel				
51.1	Two or more coats on new work	Sqm	1000	61.66	61660
52	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	40	29.41	1177
53	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade				
53.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	50	91.25	4563
54	P&F 127mm dia C.P. steel Jali cockroach trap (CCTR-127) for gully floor or Nahani trap	Each	28	279.3	7821
55	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with water tight C.I. cover	Each	20	1538.41	30769
56	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete	Mtr.	400	305.04	122016
57	Providing and fixing 75mm PVC soil pipe	Mtr.	200	178.44	35688
58	providing and fixing M.S.Holder bat clamps of approved design to sand cast iron/cast iron(spun) pipe embeded in and including conceret blocks and including cost of cutting holes and making good the walls	Each	120	122.62	14715
59	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern	Each	4	3632.69	14531
60	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10litre low level white vitreous china flushing cistern and C.P flush bend with fittings & C.I./ M.S. brackets, 40mm flush bend, overflow arrangement w				
60.1	W.C. pan with ISI marked white solid plastic seat and lid.	Each	10	4621.3	46213
61	Providing and fixing Towel rail (C.P.) brass 15 mm dia x 450 mm long having approx. wt. 380 gm	Each	12	426.79	5122

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
62	Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement	Litre	14000	9.33	130620
63	Providing and fixing medium grade G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the wall etc. concealed For 15 mm dia nominal bore.	Mtr.	40	247.58	9904
64	Providing and fixing medium grade G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the wall etc. concealed for 20 mm dia nominal bore.	Mtr.	120	293.75	35250
65	Providing and fixing medium grade G.I. pipes complete with G.I. fittings and clamps,. including trenching and refilling etc external work for 25 mm dia nominal bore	Mtr.	160	302.83	48453
66	Providing and fixing medium grade G.I. pipes complete with G.I. fittings and clamps,. including trenching and refilling etc external work for 32 mm dia nominal bore	Mtr.	200	355.95	71190
67	Providing and fixing brass bib cock of approved quality conforming to IS: 8931, 15 mm dia nominal bore.	Each	28	307.08	8599
68	Providing and fixing C.P. brass stop cock, 15 mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931	Each	28	443.87	12429
69	Providing and fixing Shower rose (C.P.) brass with swivel joint having approx. wt. 270 gm	Each	10	385.3	3853
70	Providing and fixing ISI marked Gun Metal Gate valve with C.I. wheel of approved quality.(Screw end) 25 mm nominal bore	Each	20	500.45	10009
71	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets, 20mm dia (heavy type)	Mtr.	400	131.16	52464
72	Providing and Fixing 18 mm thick 150 mm wide pelmet of flat pressed 3 layer (Like Novapan,Eco,board etc.) or graded wood particle board (Like Bhutan Board) medium density grade-I IS 3087 marked including top cover of 6 mm commercial ply wood nickel plated MS pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets including fixing with 25x3 mm MS flat 10 cm long and rawl plugs 50 mm long (designation 10 no.) etc. all complete	Mtr.	400	323.26	129304
73	Extra for using veneered particle board in item of pelmet 18 mm thick 150 mm wide	Mtr.	400	89.59	35836
74	Providing, laying and jointing glazed stoneware pipes grade 'A' as per IS:651 including bends etc. with stiff mixture of cement mortar in the proportion of 1:1 (1cement : 1fine sand) including testing of joints etc. complete				
74.1	300mm diameter	Mtr.	200	920.28	184056

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
75	Constructing brick masonry manhole in cement mortar 1:4 (1cement: 4coarse sand) R.C.C. top slab with 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1cement: 4coarse sand: 8graded stone aggregate 40 mm				
76	Inside size 90x80cm and 45cm deep including C.I. cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg). With F.P.S. bricks class designation 7.	Each	50	7333.97	366699
76.1	Extra for depth for manholes of size 90x80cm	Mtr.	20	3853.45	77069
77	Drilling of bore well for specified depth in all types of soil and rock mechanically with all contractor's tools, plants, material and labour up to 75 meters				
77.1	For 200 mm dia	Mtr.	700	559.89	391923
77.2	Extra over 75m drilling for 200mm dia	Mtr.	550	111.71	61441
80	Providing supplying, lowering and fixing in bore G.I.B Class perforated casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. complete				
80.1	200 mm internal pipe	Mtr.	300	1877.83	563349
81	Providing and fixing medium grade GI pipes complete with GI fittings				
81.1	80mm dia nominal bore	Mtr.	200	790.81	158162
82	Providing and installing 5 HP Kirloskar or equivalent submersible pump	Each	4	56583.61	226335
83	Steel work welded in builtup sections/framed work including cutting,hoisting,fixing in position and aplying a priming coat of approved steel primer using structural steel etc as required in Gratings,frams,guardbar,ladders,railings,brackets,gates,andsimilar works	Kg.	3000	94.28	282840
84	Providing and fixing pressed steel door frames manufactured from commercial mild steel sheet of 1.25mm thickness including hinges jamb, lock jamb,bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed.				
84.1	Profile A(105x60mm) single reabte	Mtr.	206	507.97	104642
85	Fabricating, supplying and fixing pressed steel door, window shutters with contractors pressed steel CR sheet 1.25 mm (18 gauge) thick confirming to IS: 4351/1976 fixed on CR frame including making out frame and fixing of all fixtures such as hinges, rings, locking bars aldrops etc. of approved quality and as directed by the Engineer-in-charge and fixing the shutters with pressed steel chow khat at site including spray painting with contractor's paint of approved quality (Asian paint or equivalent make) of any colours as directed by the Engineer-in-charge with smooth and even shades over a priming coat with contractor's anti corrosive red oxide/zinc chromate primer including contractor's all labour, tools and plants, welding equipment all leads, lifts, loading, unloading, taxes and all other incidental charges etc. complete	Sqm	103	2807.4	289163

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
86	Supplying and fixing rolling shutters of approved make as per IS 6248, 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				
86.1	80x1.25 mm M.S. laths with 1.25mm thick top cover	sqm	40	1945.39	77816
87	Laying 15 mm thick hardened topping on concrete surface with 1 part metallic floor hardener, 4 parts cement and 9 parts by weight hard stone chips of size 6 mm mixed and laid as per specifications	SQM	200	414.08	82816
88	Supplying, erecting and fixing precast concrete reinforced bench with back rest. Bench shall consist of 2 nos. L shaped base support in natural cement colour of thickness 100 mm, back height 1000 mm, front height 450 mm, base width 620 mm and 5 nos. reinf	Each	8	12211.53	97693
89	Supplying and laying interlocking pre-cast CC block pavers of approved design factory manufactured of specified grade cement concrete on passenger platform, foot paths, circulating area, etc, including setting in position over 25mm thick bedding layer of				
89.1	60mm thick blocks of M35 grade	SQM	600	524.07	314442
89.2	80mm thick blocks of M35 grade for medium traffic	SQM	200	606.89	121378
90	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 weilding and bolted with special shape washer etc complete.				
90.1	hot finished seamless type tubes	KG	200	148.47	29694
91	Providing and laying of S&S centrifugally cast spun iron pipes	Mtr	40	1359.15	54366
92	Supply & installation of precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50mm +/- 5% total coated thickness (TCT) thick Zinc coating 120gsm as per IS:277 in 240mpa steel grade, 5-7microns 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 while 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 (5.5 x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead 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 wherever required	SQM	200	595.06	119012
93	Polished stone tile work for wall lining (dado) over 12mm thick bed of cement mortar 1:3, including pointing in white cement with an admixture of pigment to match the stone shade with tiles of all size upto 300 x 300 mm				
93.1	8mm thick superior quality black granite tiles	SQM	400	1734.62	693848
94	Supplying, fitting & fixing in position C.I. Jali with frame with cement concrete 1:2:4 including all lead				
94.1	300 mm x 600 mm jali weighing 23 Kg	Each	40	1566.2	62648

S.No.	Description	Unit	Quantity	Rate (in Rs)	Amount (in Rs)
95	PTMT push cock 15mm dia	Each	40	120.28	4812
96	PTMT extension nipple 15mm	Each	40	50.5	2020
97	50mm Dia GI pipe	Each	40	507.98	20320
98	15mm dia GI pipe	Each	40	245.94	9838
	Total of Schedule (B)				4,01,27,309.00
	Schedule C- Steel items				
1	Supply TMT Fe500 reinforcement steel conforming to IS: 1786-2008 including decoiling, straightening, cutting, bending, hooking as per procedure specified in IS 2502, placing in position, b Reinforcement, shall be measured in length for different diameters used in the works and then paid as per standard weights as per IS 1732. Wastages, overlaps, coupling, welded joints, spacebars, chairs and binding wire shall not be measured and cost of these items shall be deemed to be included in the rates.inding with 1MM dia. G.I. binding wire. Note:	MT	200	76362.67	15272534
2	Providing and laying Design mix concrete M20 in toe wall, drain, retaining wall wing walls, return wall of Box, RUB, Abutment etc. using well graded stone aggregate of 20MM nominal size (as per direction of Engineer- in-Charge). The rate is inclusive of cement,alllabour and other required material, royalty taxes, leads, lifts, descent, loading, un-loading, centring and shuttering, shoring, strutting, curing pumping out/balling out water where required, fuel, electricity etc complete as required .(Rate Excluding steel reinforcement)	Cum	950	4785.91	4546615
	Total of Schedule C				1,98,19,149.00
	Schedule-D-Other items of Work not covered by above schedules (SECR-USSOR-2010)				
	Any item of SECR-USSOR-2010 not covered by any other item of Schedules - A,B,C&D but required to be executed for successful completion of the work as deemed necessary by the Engineer.	Basic value	5000000	13.00%	5650000

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
	Schedule-E-General Electrical Works of Station Building ,Loading Platform etc.							

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
	Section-A: Electrification of service building, officers rest house, running room, crew lobby, passenger shelter, sheds, pump house, substation Building, offices ETC AND Additional Requirement of Quarters, LC Gates ETC							
1	Wiring for light/ ceiling fan/ exhaust fan/ call bell/ light group/ wall fan/ fresh air fan/ LED foot light/ LED night lamp/ reading cum bed light etc. Point including circuit wiring, sub-main wiring with Fire Retardant (FR)< PVC insulated, multistranded, copper conductor, single core cable on surface/in recessed PVC conduits, distribution boards, sub distribution boards, earthing etc as required, wiring shall be done as per size of cables, no. of points permissible in each and sub main as indicated in Explanatory Notes.	Point	300	0	1,038	0	3,11,400	3,11,400
2	Wiring for power plug point including circuit wiring, sub main wiring, with fire retardant (FR) PVC insulated, multistranded, copper conductor, single core on surface/in recessed PVC conduits, distribution boards, sub distribution boards, earthing with G.I. Pipe/electrode etc as required. Wiring shall be done as per sizes of cables, no. of points permissible in each circuit and sub main as indicated in Explanatory Notes.	Poi nt	100	0	1,903	0	1,90,300	1,90,300
3	Extra for provision of industrial type iron clad plug socket with 32A DP MCB in M.S.Box.	Poi nt	8	0	520	0	4,160	4,160
4	Multiplug points (Power strip 3 No. 6A socket controlled by 16A switch) similar to legrand cat no. 6745.48 OR as	No.	2	1,141	62	2,282	124	2,406

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
	approved by engineer.							
	Section-B: Provision of Luminaries, FANS, WATER Cooler ETC.							
5	Supply, installation, testing and commissioning of 1200 mm (Without Regulator) 230 V A.C. ceiling fan with double bell bearing and suitable capacitor complete with wiring with 1.5 sq. mm. FR, PVC insulated, copper conductor single/three core cable as instructed. Etc as required.	No.	80	1,324	225	1,05,920	18,000	1,23,920
6	Supply and fixing of tapped type, electronic fan regulator with suitable rating for the C/Fan on the existing phenolic laminated sheet copper plate/modular plate of switch box, including connections, testing & commissioning as required.	No.	80	270	66	21,600	5,280	26,880
7	Supplying, installation, testing and commissioning of LED lamp 9-15 watts, 250 volts, 2 pin.	No.	50	141	25	7,050	1,250	8,300
8	Supply, erection, testing and commissioning of LED street light fitting with luminaries, 220-240V AC 50Hz, CRI>70, IP-65, power factor >0.95 cool white, integral driver, lumen output 3500 lm, confirming to IEC 60598 and IS 10322 and railway specification. Make Crompton Greaves, Phillips, Halonix, Havells.							
i	Street Light LED 70-75 W	No	20	11,758	365	2,35,160	7,300	2,42,460
ii	Street Light LED/Flood light 240 W	No.	20	28,130	325	5,62,600	6,500	5,69,100
9	Supply and installation of 1x20W LED Tube light fitting complete with LED lamp similar to phillips Model No.TMC 501 P1xT-LED 22W P3241 or equivalent or as per railway specification as approved by engineer.	No.	150	1,248	88	1,87,200	13,200	2,00,400

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
10	Supplying, erection, testing and commissioning of exhaust fan suitable for 1-Phase, 230 V, AC supply complete with capacitor, louver shutters, grouting bolts with nuts, making opening/modification in the wall to suit the size of the fan. Making good the damages. connections with 1.5 sq. mm. FR.PVC insulated, multistranded copper conductor, single core/three cable as instructed, earthing etc. as required.							
i	AC exhaust fan 150 mm with louver shutters.	No.	6	1,187	276	7,122	1,656	8,778
ii	AC exhaust fan 300 mm 900 rpm with/without louver shutters.	No.	2	2,135	362	4,270	724	4,994
	Section-C : L.T. Switch Boards And Feeder Pillars							
11	Supply, installation, testing & Commissioning of cubical type, wall mounted, dust & vermin proof. LT switch of different capacities.							
i	Bus-bar boxes with copper bars of 250A, 415V size of box 300x300x170 mm with all accessories.	No.	30	4,455	23	1,33,650	690	1,34,340
ii	LT Switch Board 125 Amp comprising of the items indicated as under: i) Incoming MCCB 125A, 4 pole, 35kA, fixed type (ICS=100% Icu) - 1 No. ii) Outgoing MCCB 63A, 25kA, fixed type (Ics=100% Icu) - 04 Nos. iii) Outgoing MCB 40A, 4 pole, 10 kA - 04 Nos. iv) Outgoing MCB 32A, double pole, 10kA - 06Nos. v) Sleeved/Epoxy coated copper bus-bas 250A in bus bar chamber vi) CT's indication lights.	No.	1	58,938	10,031	58,938	10,031	68,969

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
iii	LT Switch Board 63 Amp comprising items indicated as under: i) Incoming MCCB 63A, 4 pole, fixed type (ICS=100% Icu) - 1 No. ii) Outgoing MCCB 40A, 25kA, fixed type (Ics=100% Icu) - 03 Nos. iii) Outgoing MCB double pole, 6-32A, 10kA - 20Nos. iv) Sleeved/Epoxy coated copper bus-bas 200A in bus bar chamber vi) Indication lights.	No.	1	53,729	9,143	53,729	9,143	62,872
iv	SP 06-32A MCB.	No.	30	108	10	3,240	300	3,540
12	Supply, Installation, testing and commissioning of cubical type mast mounted, dust & vermin proof, LT control switch board of 14 SWG CRCA sheet comprising conforming to IS:8623 (latest version), complete with stud type incoming and outgoing terminals suitable for 70 sq. mm. cable & hinged door & panel lock etc- a) with TPN MCCB 63A, 35KA, Fixed type (Ics=100% Icu) - 1 no b) Copper busbars 200A (for 10 KVA AT)	No.	5	10,778	2,866	53,890	14,330	68,220
	Section-D: EXTERNAL ELECTRIFICATION WORKS							
13	Supply & erection of G.I Octagonal pole including digging of pit, making M 10 foundation with cement, sand & ballast, mugging concrete up to 300 mm above ground level in ratio 1:2:4, grouting of foundation bolts, accommodating class 'B' ISI marked G.I. Pipe in foundation up to junction box for passing cable & cable loop-in-loop out of suitable size as required; Double door, weather proof M.S. Junction box (Degree of protection not less than IP54) complete with MCB 6 amps, copper bus bar for looping 4-							

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
	Core, 3 nos. LT cables and clamping with pole, as required. (Payment of G.I. pipe shall be made against the relevant BOQ item).							
i	7/9 meter long	No.	20	10,087	2,684	2,01,740	53,680	2,55,420
ii	Additional cost of single arm bracket suitable for street light fixture	No.	20	304	81	6,080	1,620	7,700
14	Supply and erection of GI Pipe - class "B" ISI marked with accessories including bends etc. for support of cable with erected pole/recessing in wall/floor/ passing earth strip or passing cable as required:							
i	32 mm dia	Mtr	30	182	32	5,460	960	6,420
ii	65 mm dia	Mtr	100	355	62	35,500	6,200	41,700
iii	100 mm dia	Mtr	50	667	113	33,350	5,650	39,000
15	Supply, erection, testing & commissioning of auto change-over type control and distribution panel for colour light signalling supply in 25KV AC traction system as per RDSO technical specifications No.TI/SPC/PSI/CLS/0023 including latest amendment for-5-10 KVA AT	No.	2	50,290	8,559	1,00,580	17,118	1,17,698
	Section-E: EARTHING ARRANGEMENT							
16	Earthing with 3 meter long, 50 mm dia. G.I. pipe class "B" earth electrode, adding of charcoal or coke and salt, providing masonry enclosure and cover plate with lifting arrangement etc. including connections with 4mm GI wire from earth electrode to switch board/electrical equipment as required.	Job	40	2,013	343	80,520	13,720	94,240
17	Supply & erection of maintenance free earthing system	No.	4	0	11,967	0	47,868	47,868
18	Supply and Laying 25 mm x 6 mm G.I. Strip at not less than 0.50 meter below ground or in recess as required.	Mtr	200	44	9	8,800	1,800	10,600
	Section-F : Cabling							

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
19	Supply, laying of 1.1 KV grade LT XLPE insulated armoured, aluminium conductor cable, making good the damages, end terminations with aluminium crimping socket/lugs, provision of cable route markers, testing and commissioning etc. as required as per technical specifications:							
i	2 core 16 sq. mm.	Mtr.	1000	194	48	1,94,000	48,000	2,42,000
ii	2 core 25 sq. mm.	Mtr.	1000	225	57	2,25,000	57,000	2,82,000
iii	2 core 70 sq. mm.	Mtr.	2000	385	66	7,70,000	1,32,000	9,02,000
iv	4 core 16 sq. mm.	Mtr.	1000 0	251	60	25,10,000	6,00,000	31,10,000
v	4 core 35 sq. mm.	Mtr.	2000	355	62	7,10,000	1,24,000	8,34,000
vi	4 core 70 sq. mm.	Mtr.	3000	566	97	16,98,000	2,91,000	19,89,000
vii	4 core 120 sq. mm.	Mtr.	400	895	96	3,58,000	38,400	3,96,400
viii	Extra for provision of cable route marker	No.	100	235	13	23,500	1,300	24,800
	Section-G: Electrification by High Masts							
20	Supply, erection, testing & Commissioning of Hot dipped galvanised, high mast system complete with all accessories, foundation, carriage arrangement suitable for 9 luminaries symmetrically arranged & control gear boxes and lighting of final etc., twin dome aviation obstruction lights, control panel, multicore flexible copper conductor cable, connection to earthing system, and fencing panel as per required.							
i	16 m high mast system with 9 nos. luminaries (2x100 W LED with lamps) make Havells or better, symmetrically arranged	Job	8	6,90,106	73,941	55,20,848	5,91,528	61,12,376
	Section-H: LAYING of PIPES							
21	Supply and laying of 200 mm dia RCC hume pipe, ISI marked, NP-4 under the Railway track/road etc, digging of trench and back filling with excavated earth after laying of pipe and	Mtr	30	317	34	9,510	1,020	10,530

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
	making good the damages as required.							
22	Supply and laying of DWC/Split DWC pipe of size 200 mm outer dia and 175 mm inner dia, ISI marked (either single piece of full round of two half round split pieces set) under the Railway track/road etc. digging of trench and back filling with excavated earth after laying of pipe and making good the damages as required.	Mtr	300	214	26	64,200	7,800	72,000
	Section-I: MISC Works							
23	Supply, installation, testing & commissioning of 5 HP Pump Set energy efficient submersible pump set complete with motor suitable to operate on 3 phase, 415 V, 50Hz AC supply along with control panel (having dry run protection, single phasing protection), submersible cable of suitable rating etc complete for supplying water at suitable discharge and designed for 100 mtr head or as per site requirement:	Job	2	51,159	5,482	1,02,318	10,964	1,13,282
24	Co-ordination/liasing and chasing with state utility company for availing new electrical connection/augmentation of sanctioned load at station, level crossing etc. including applying for load, collection of estimates for loads, modification of power line crossing, arranging payment from IRCON depositing payment of State Utility Company, arrangement release of load & other related works. payment to be made to SEB for new connection, load augmentation, modification of power line crossing etc. shall be made by IRCON or nominated agency	Each Location	2	0	6,459	0	12,918	12,918

BOQ Item No.	Description of items	Unit	Qty	Basic Rate (in Rs)		Basic Amount (in Rs)		Total Basic Amount
				Supply	Erection	Supply	Erection	
25	Design and preparation of working & completion drawings of all HT/LT electrical installation of the project section where work is carried out such as platform lighting. Internal electrification of staff quarters, level crossing, station building, officers, power line crossing, power supply distribution arrangements of stations/sub stations, electrification of sub-station building etc. & approval from the competent authority.	Job	2	0	1,33,116	0	2,66,232	2,66,232
26	Provision of temporary lighting arrangement with 1x40 watt F.L tube light fittings/CFL fitting/Flood light/Halogen fitting and pedestal/ceiling fans, desert coolers in temporary tents, buildings, goomties, on tracks, in yard area including wiring, cabling, earthing etc. as directed by the Engineer and as per site requirement for pre/post/during non-interlocking period, including providing stand by DG set of suitable capacity and deployment of staff for operation of DG set as per site requirement.	Per day	15	0	18,372	0	2,75,580	2,75,580
27	Extras for operation and maintenance of temporary wiring installations, replacement of consumables, supply of diesel oil, lub. oil etc for operation of DG set etc.	Per day	15	0	3,646	0	54,690	54,690
28	Supply, Installation, testing and commissioning of 15 W LED Solar Street Light with 6/7 m pole GI Completed with all accessories. As per RDSO specification RDSO/PE/SPEC/PS/0093-2008 (Rev.0) Amend-3	No.	4	33,777	2,625	1,35,108	10,500	1,45,608
Total of Schedule (E)						1,42,29,165	32,65,936	1,74,95,101

(To be executed on a non-judicial stamp paper of Rs 100/- only)

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To
IRCON INTERNATIONAL LIMITED,

[Acting through _____ (Project Incharge) &
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 "the 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 performance 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 under bank
guarantee 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 invocable at our place of business at New Delhi/NCR/Project HQ (Indicate detail address of branch with Code No.)*. The branch at New Delhi/NCR/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) IFS Code _____ 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 New Delhi/NCR/Project HQ branch along with its Code No.



FORM OF AGREEMENT

(To be executed on requisite value of stamp Papers)

AGREEMENT

THIS AGREEMENT made on _____ day of _____ (Month/year) between IRCON INTERNATIONAL LIMITED, acting through (Project Head and name/address of the **Project**.....) (hereinafter called "the Employer/Engineer") of the one part and _____ (name and address of the Contractor) (hereinafter called "the Contractor") of the other part.

WHEREAS the Employer is desirous that work of "....." should be executed by the Contractor viz. **LOA No.** _____ (hereinafter called "the Works", and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meaning as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement:
 - a) Letter of Acceptance of Tender
 - b) Notice Inviting Tender
 - c) Instructions to the Tenderers
 - d) Appendix to Tender
 - e) Form of Bid
 - f) Special Conditions of the Contract
 - g) General Conditions of Contract
 - h) Particular Technical Specifications
 - i) General Technical Specifications
 - j) Relevant codes and Standards
 - k) Drawings
 - l) Bill of Quantities
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement executed the day and year first before written.

(Name, Designation and address of the authorised signatory)

(Name, Designation and address of the authorised signatory)

Signed for and on behalf of the Contractor in the presence of:

Signed for and on behalf of the Employer in the presence of:

Witness:

Witness:

1.

1.

2.

2.

Name and address of the witnesses to be indicated.

