



इरकॉन इन्टरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)
An integrated Engineering and Construction Company



No. IRCON/2059/CGRP/e-TENDER/23-24/URGA-DHARAMJAIGARH/Pkg-1A (R) 2480 Date: 28.05.2024

To,

M/s Agrawal Global Infratech Pvt. Ltd.
C-1, 3rd Floor, Aishwarya Chambers,
GE Road Telibandha,
Raipur-492006

Dear Sir,

Sub : "Civil works including Earthwork for Railway formation, Blanketing work, Minor Bridges, RUBs, Station building and other service buildings, Staff Quarters, Platform Works including general electrical works between Urga (Km 0) to Ex. Dhaskamunda (Km 30) Single line including Double Track between CH-1.4 Km to CH-2.3 Km in connection with the construction of New BG Electrified Single Railway Line for Chhattisgarh East Rail Corridor Phase-II from Urga (Km 0) to Dharamjaigarh (Km 62) via Bhaisma station, Dongaama, Dhinara, Dhaskamunda, Hati and Khadgaon in the state of Chhattisgarh over South East Central Railway." -**Letter of Acceptance**

Ref: (i) e-Tender No.: IRCON/2059/CGRP/e-TENDER/23-24/URGA-DHARAMJAIGARH/Pkg-1A (R)
Dated: 07.02.2024.
(ii) Your offer dated: 22.02.2024 and opening of financial Bid on dated: 24.05.2024.

- 1.0 The Competent Authority has accepted your offer for the work of, "Civil works including Earthwork for Railway formation, Blanketing work, Minor Bridges, RUBs, Station building and other service buildings, Staff Quarters, Platform Works including general electrical works between Urga (Km 0) to Ex. Dhaskamunda (Km 30) Single line including Double Track between CH-1.4 Km to CH-2.3 Km in connection with the construction of New BG Electrified Single Railway Line for Chhattisgarh East Rail Corridor Phase-II from Urga (Km 0) to Dharamjaigarh (Km 62) via Bhaisma station, Dongaama, Dhinara, Dhaskamunda, Hati and Khadgaon in the state of Chhattisgarh over South East Central Railway" at your offered cost of Rs. 119,27,95,484.04/- (Rupees One Hundred Nineteen crore twenty seven lacs ninety five thousand four hundred eighty four and four paise only) including all taxes, duties, etc. & GST @ 18% . **(BOQ attached as per Annexure A).**
- 2.0 The completion period of work is 18 (Eighteen) months from the date of issue of letter of acceptance including monsoon period as per clause no 10 of SCC. This LOA shall be treated as notice of commencement of work.
- 3.0 It is requested to submit a Performance Security for an amount of Rs. 11,07,20,000/- (Rs Eleven Crore Seven lacs Twenty Thousand only in the prescribe form as per clause no 8.0/13.0 of GCC/SCC in favour of IRCON INTERNATIONAL Limited., within 21 days of issue of this letter.
- 4.0 This letter will constitute a legal and binding contract between Ircon International limited and M/s Agrawal Global Infratech Pvt. Ltd. till such time the contract Agreement is signed. You will enter into and execute the contract Agreement within 28 days from the date of issue of this letter as per clause no 15/12.5 of SCC/GCC on the stamp Paper of the requisite value as per the prevailing laws to be arranged at your cost.
- 5.0 All other terms and conditions shall be as per Tender documents, which shall form an integral part of this contract and shall be binding on you.
- 6.0 This letter is being issued to you in duplicate as per clause No. 23 of Instructions to Tenderer of Tender document, one copy of which may please be returned within 7 (seven) days of the issue of the LOA. Duplicate copy shall be duly stamped and signed and returned as a token of your unconditional acceptance.

[Signature]
28/05/24



7.0 You are requested to contract Project Director, Bilaspur, Chhattisgarh for further instructions.

Encl.: BOQ as Annexure A.

Yours faithfully,
For and on behalf of
Iron International Limited

(Surender Singh)
Executive Director/Project

Copy to :

- (i) Project Director, CGRP, Bilaspur
- (ii) CGM/Civil, Bilaspur office.

ANNEXURE-A**Summary of BOQ**

Name of Work:- Civil works including Earthwork for Railway formation, Blanketing work, Minor Bridges, RUBs, Station building and other service buildings, Staff Quarters, Platform Works including general electrical works between Urga (Km 0) to Ex. Dhaskamunda (Km 30) Single line including Double Track between CH-1.4 Km to CH-2.3 Km in connection with the construction of New BG Electrified Single Railway Line for Chhattisgarh East Rail Corridor Phase-II from Urga (Km 0) to Dharamjaigarh (Km 62) via Bhaisma station, Dongaama, Dhinara, Dhaskamunda, Hati and Khadgaon in the state of Chhattisgarh over South East Central Railway

IRCON/2059/CGRP/e-TENDER/23-24/URGA-DHARAMJAIGARH

Date: 28.05.2024

Sl. No.	Schedule	Description	Basic Rs.	Amount
1	Schedule-A	Earthwork in Formation (Earthwork & Blanketing)	721,494,093.79	
2	Schedule-B	Bridge Work (Other than steel items)	141,167,698.35	
3	Schedule-C	Steel items	196,601,580.72	
4	Schedule-D	Road Works	14,359,282.40	
5	Schedule-E	Station Buildings, Quarters & Platform Works (CIVIL)	88,733,802.58	
6	Schedule-F	Other items of Work not covered by above schedules (SECR-USSOR-2021)	31,626,000.00	
7	Schedule-G	General Electrical Works	25,370,533.97	
Total Basic amount			1,219,352,991.81	
GST @ 18%			219,483,539.00	
Total Estimated cost			1,438,836,530.81	
Total quoted amount after quoted rate (-17.10%)			119,27,95,484.04	
Total quote amount in words			Rs. One Hundred Nineteen crore twenty seven lacs ninety five thousand four hundred eighty four and four paisa only.	

Note:-

Items covered under SECR-USSOR-2021 (i.e. under Schedule F above) are inclusive of GST @12%, therefore items executed under Schedule F will be paid by deducting GST @12% thereafter adding escalation on quoted rate and thereon adding prevalent GST rate (i.e. @18%).

All schedule mentioned above include Non -SOR BoQ items except Schedule -F which include SOR items only.



BILL OF QUANTITIES:

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
SCHEDULE (A) : Earthwork in Formation (Earthwork & Blanketing)					
1	Earthwork in filling in Embankment Fill and Top Layer of formation including trolley refuges etc. with earth of approved quality as per "Comprehensive guidelines and specifications for Railway Formation" Specification No. RDSO/2020/GE:IRS-0004 September-2020, Corrected upto ACS No.1 issued by RDSO, Lucknow (with latest amendments upto date correction slips) including all leads, lifts, ascents, descents, site clearances, setting out and demarcation of profile, benching, initial compaction of subsoil after levelling the surface after site clearance, spreading loose earth in 30CM layers using grader up to extra width of 0.5 M beyond designed profile, compaction (mechanical Means) using vibratory compactors so as to achieve in-situ dry density not less than 98% of MDD, top and side dressing and removal of extra earth from sides to provide final formation as a complete job as per RDSO Guidelines & designed profile. The rate shall include cutting of trees with girth up to 30 cm and separate payment will be made for cutting of trees if girth is more than 30 cm. The minimum Ev2 Criteria as mentioned in the guidelines is not applicable. Work shall be executed in strict compliance of "Comprehensive guidelines and specifications for Railway Formation" Specification No. RDSO/2020/GE:IRS-0004 September-2020, Corrected upto ACS No.1 issued by RDSO, Lucknow (with latest amendments upto date correction slips). The rate includes royalty/taxes, all Labour, tools/Plants etc.				
(a)	With contractors earth of approved quality and specification from outside railway land	cum	1656840.00	220.10	364670484.00
(b)	with suitable material available at site from excavation (Item 2 of Sch-A and Item 1 of Sch-B) with all leads & lifts	cum	812820.00	37.79	30716467.80



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
2	Earthwork in excavation by mechanical means (Hydraulic excavator) in cutting in formation, trolley refuges, side drains, yard drains, catch water drains, etc. including leading usable cut spoils and utilise it for formation in filling (as per Item 1(b) above) and disposal of surplus unsuitable earth, site clearances, setting out and demarcation, lift, ascents, descent, loading, unloading, tools & plants, Royalty/all taxes, bailing/pumping out of water and all incidental charges as per specifications of Item 1 above, disposing off surplus unusable cut spoils with all lead as per directions of the Engineer incharge and top & side dressing to providing final formation as per designed profile. The rate shall not include cutting of trees with girth above 30 CM, which shall be paid separately. Note: 1. Rock spoils such as stones, boulders, pebbles, gravels, etc available from excavation, if are found suitable for use in works as per required specifications even after modifications etc., can be used free of cost but the legally payable royalty and taxes are to be paid by the contractor to the concerned authorities. 2. Rain cuts, slips and washings in the cutting and side drains will have to be cleared/rectified manually/mechanically and no extra cost will be payable. 3. Contractor has to arrange suitable land for disposal/stacked of unusable excavated material from cutting at his own cost.				
a)	Soil excluding rock	cum	931340.00	133.54	124371143.60
b)	soft Rock with UCS 1.25 MPa to 12.5 Mpa, not requiring blasting	cum	84690.00	191.30	16201197.00
c)	Hard rock with UCS more than 12.5 MPa requiring blasting but blasting not permitted, hence to be excavated by chiselling. Note:- 1- in case blasting is permitted accepted basic rate will be reduced by 10%.	cum	197610.00	534.85	105691708.50
3	Extra for making trolley refuges in cutting or filling by manual finishing, ramming, making up for extra volume of earth in cutting or filling, repair till handing over as per standard drawings.	Each	309.00	352.61	108956.49
4	Extra for manually finishing unlined side drains.	RM	1940.00	17.31	33581.40

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Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
5	Filling suitable, well graded contractor's coarse sand of approved quality in weak formation/ sandwich construction in Embankment, in layers not exceeding 300 mm depth in loose state, in the entire width of the formation in cutting, below or above natural ground level, or as directed to dimension and slopes shown in cross section sheets or as directed by the Engineer in charge with Compaction by Vibratory Roller up to the required relative density (min.70% of the relative density obtained as per IS:2720 part.IV-1983) as a complete job.	cum	6180.00	935.66	5782378.80
6	Turfing/planning. Including all leads and lift, and watering as required until properly rooted with. Note- Initially payment of only 40% will be made. Balance 60% will be paid only after 3 months of maintenance period if the turfing is properly rooted.				
a)	Turfing with sods 10cm thick and 20cm square closely laid	sqm	643610.00	18.22	11726574.20
7	Providing and laying blanketing materials of specifications as per latest RDSO Guidelines and Specifications and procedures by spreading in layers not exceeding in 30 cm in loose state and leveling by graders and compaction using vibratory compactors, including all leads, lift, ascent/descent, loading, royalty/taxes, octroi, tools and plants, testing charges, top and side dressing to provide final formation as per designed profile as a complete job inclusive all other incidental charges. NOTE: 1) If naturally available materials do not meet the laid down specifications, blanket material has to be produced by mechanical process using mechanical crushing or mechanical blending method or combination of these two methods as given in "Comprehensive guidelines and specifications for Railway Formation" Specification No. RDSO/2020/GE:IRS-0004 September-2020, Corrected upto ACS No.1 issued by RDSO, Lucknow (with latest amendments upto date correction slips) . The quoted rates are deemed to include the production of material by mechanical process. 2) The filter criteria and minimum EV2 Criteria as mentioned in the guidelines is not applicable.	cum	114840.00	541.55	62191602.00
	Total of Schedule - (A)				721,494,093.79
	SCHEDULE (B): Bridge Work (Other than steel items)				

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
	Bridge work				
1	Earth work in excavation in foundation of bridges/structures by mechanical means (hydraulic excavation) to desired profile including ramming of bottom, backfilling, compaction of back fill, getting out excavated usable surplus materials and utilise it for formation in filling (as per Item 1(b) of Schedule-A) and disposal of surplus unsuitable soil as per directions of the Engineer in charge. The rate inclusive of all labour, material required, manual work for achieving desired profile, wet excavation, shoring, strutting, trenches and leading the surplus unsuitable soil to any other place as directed by Engineer incharge with all lead, lift, Ascent,descent , loading, un-loading ,tools & plant and removing slush, making protection bunds for diverting water wherever necessary, pumping out/balling out water with contractor's pump or by any other means complete as required. Note: 1.Rock spoils such as stones, boulders, pebbles, gravels, etc available from excavation, if are found suitable for use in works as per required specifications even after modifications etc. can be used free of cost but the legally payable royalty and taxes are to be paid by the contractor to the concerned authorities. 2. Rain cuts, slips and washings in the cutting and side drains will have to be cleared/rectified manually/mechanically and no extra cost will be payable. 3. Contractor has to arrange suitable land for disposal/stacked of unusable excavated material from cutting at his own cost.				
a)	Soil excluding rock	cum	38460.00	246.19	9468467.40
b)	All type of Rock	cum	3850.00	260.39	1002501.50
2	Providing and laying of Levelling Course (P.C.C M-15) cement concrete in foundation and flooring using well graded stone aggregate of 20 MM normal size,Corrective course of flooring etc with all required Labour and material including cement, royalty, taxes, leads, lifts, ascent/descent, loading, un-loading, shuttering, shoring, strutting, curing, pumping out/balling out water from foundations where required, fuel electricity etc as a complete job as per Direction of Engineer incharge..	cum	2700.00	4,696.69	12681063.00

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Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
3	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,all labour and other required material, royalty taxes, leads, lifts, Ascent/descent, loading, un-loading, centring and shuttering, shoring, strutting, curing pumping out/balling out water where required, fuel, electricity etc as a complete job as required .(Rate Excluding steel reinforcement)	cum	700.00	4,940.16	3458112.00
4	Providing and laying Design mix concrete M25 in coping and wearing course works and other miscellaneous works, etc. using well graded stone aggregate of 20MM nominal size as per direction of Engineer- in-Charge. The rate is inclusive of cement,all labour and other required material, royalty taxes, leads, lifts, Ascent/descent, loading, un-loading, centring and shuttering, shoring, strutting, curing pumping out/balling out water where required, fuel, electricity etc as a complete job as required.(Rate Excluding steel reinforcement)	cum	6600.00	5,178.35	34177110.00
5	Providing and laying Design mix control concrete M30/M35 in cast-in-situ RCC works in foundation of bridges, pile cap, approach slab, bottom slab of RCC boxes, foundation of retaining walls/wing walls and other miscellaneous works, etc using well graded stone aggregate of 20 MM nominal size as per direction of Engineer incharge. The rate is inclusive of cement,all labour and other required material, royalty taxes, leads, lifts, Ascent/descent, loading, un-loading, centring and shuttering, shoring, strutting, curing pumping out/balling out water where required, fuel, electricity etc as a complete job as required . (Rate Excluding steel reinforcement)	cum	3700.00	5,428.22	20084414.00

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
6	Providing and laying Design mix control concrete M35/M40 in cast-in-situ RCC works in substructure, pier, superstructure, abutment, pier cap, jacketing, dirt wall, return wall, wing wall, retaining wall, foot path slab, bridge deck, ballast retainers, RCC railing, inspection platform, pedestal, RCC boxes excluding bottom slab and other miscellaneous works etc using well graded stone aggregate of 20 MM nominal size as per direction of Engineer incharge. The rate is inclusive of cement, all labour and other required material, royalty taxes, leads, lifts, Ascent/descent, loading, un-loading, centring and shuttering, shoring, strutting, curing pumping out/balling out water where required, fuel, electricity etc as a complete job as required . (Rate Excluding steel reinforcement)	cum	6270.00	5,603.43	35133506.10
7	Applying two coats of coal tar or bitumen conforming to IS 3117 - 1965 on the top and sides of RCC box/slabs @1.70 kgs/sqm after cleaning the surface with all labour and materials complete job as directed by the engineer.	sqm	6700.00	148.60	995620.00
8	Providing and laying boulder backing behind abutment, wing wall, boxes, return wall, etc. with all leads, lifts, Ascent/descents, labours, material, tools & plants royalty/taxes, octroi etc all as a complete job as per drawing & direction of Engineer in charge. The boulder backing shall be as per IRS Bridge & Sub-Structure Code/IRC 78/relevant RDSO guidelines and as per direction of Engineer in Charge.	cum	5070.00	1,420.57	7202289.90
9	Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification with all leads, lifts, Ascent/descents, labours, material, tools & plants royalty/taxes, octroi etc all as a complete job as per direction of Engineer Incharge.	cum	980.00	3,437.89	3369132.20
10	Providing and laying backfill material behind abutments, wing walls, return walls , below stone pitching, etc with all leads, lifts, Ascent/descents, labours, material, tools & plants royalty/taxes, octroi etc all as a complete job. The back fill material shall be as per IRS Bridge & Sub-Structure Code/IRC 78/relevant RDSO guidelines and as per direction of Engineer in Charge	cum	11220.00	575.90	6461598.00

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Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
11	Providing and laying pitching with stone boulders weighing not less than 35 kg each with the voids filled with spalls on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment etc. as a complete job as per drawing and technical specifications. (filter media to be paid separately under the relevant item)	cum	450.00	1,102.59	496165.50
12	Providing and laying pitching with stone boulders weighing not less than 35 Kg each with the voids filled with cement sand mortar 1:4 on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment etc with all leads, lifts,labours, material, tools & plants, Ascent/descents, royalty/Taxes, octroi etc complete job as per drawing and as directed by Engineer incharge. (Filter media to be paid separately under the relevant item).(Rate includes cost of cement).	cum	1400.00	1,623.34	2272676.00
13	Supply and filling of coarse sand in foundations for boxes and in case of loose slush is encountered at site of Foundation and before laying the filter media with contractors material and labour including its compaction and watering with all lead lift ,taxes, royalty etc. Complete in all respect as per instruction of Engineer-in-charge.	cum	2880.00	599.90	1727712.00
14	Random rubble masonry (CM 1:6) with hard stone for toe wall, including cost of all materials including cement , labour, tools, plant all leads and lifts, curing etc complete as per specifications and as directed by engineer-in-charge	cum	618.00	1,733.13	1071074.34
15	Providing and fixing in position of standard preformed sealed and slab type or strip seal elastomeric type expansion joints for Railway bridge or Road Over Bridges as per approved drawings and latest MOST/IRC specifications. The rates are inclusive of supplying, fixing with contractor's own materials, e.g. inserts, bolts, socket tubes, Neoprene sheet/cap etc., equipments,machineries, labour, all taxes, royalty, all lead & lifts, transport, testing, surface preparations, complete.				
a	40 mm Expansion Joint	meter	30.00	7,628.67	228860.10

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Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
16	Providing and fixing of 80/100 mm dia PVC pipe for weep holes in abutments, wing walls, return walls, face wall, retaining wall etc at suitable intervals with all leads, lifts, Ascent/descents, ascents etc with contractor's labours, material tools & plants as per drawing and as directed by Engineer. The weep holes shall be measured in running meter. The rate shall be inclusive of cleaning of weep holes.	meter	5580.00	150.88	841910.40
17	Providing and Laying RCC Hume pipe heavy duty Non pressure 1200 mm dia NP-4 class for use under Railway track with collors and jointing with 1:2 cement mortar including testing of joints for 25T Loading and confirming to specifications IS-458-2021(Fifth Revision) .The rate is inclusive of cement,all labour and other required material,loading/unloading with cranes/hydra of pipe s,royalty, taxes, leads, lifts, Ascent/descent, loading, unloading, centring and shuttering, shoring, strutting, curing pumping out/balling out water where required, fuel, electricity etc as a complete job as required.(Rate Excluding steel reinforcement)	meter	64.00	7,741.97	495485.91
	Total of Schedule - (B)				141,167,698.35
	SCHEDULE (C): Steel items				
	Bridge Work				
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, binding with 1MM dia. G.I. binding wire. Note: 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.	MT	2860.14	68,738.45	196601580.72
	Total of Schedule - (C)				196,601,580.72
	Schedule (D) :Road Works				
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	cum	3470.00	288.43	1000852.10

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Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
	compacting to meet requirement of table 300-2 as a complete job.the rate includes Royalty,octroi, taxes etc, labour machine & Plants,handling/unhandling leads and lifts etc all.				
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	1740.00	1,671.50	2908410.00
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	1450.00	1,643.99	2383785.50
4	Prime coat : (Providing and applying primer coat with oil based bitumen emulsion (SS-1, grade confirming to IS:8887) on prepared surface of granular Base including clearing of road surface and spraying primer using mechanical means as per clause 502 as per MORTH specifications.				
	(i) on WBM/WMM surface @0.85 Kg/sqm.	sqm.	5780.00	70.67	408472.60
5	Dense Bituminous Macadam (Providing and laying dense bituminous macadam with minimum 40-60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.505 complete in				



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
	all respects as per MORTH specifications.)				
A	With sensor paver finisher				
(i)	for Grading-II(26.5 mm nominal size bitumen content 4.50%)	cum	580.00	8,997.00	5218260.00
6	Tack coat Providing and applying tack coat with bitumen emulsion (RS-1, grade confirming to IS:8887) using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per clause 503 as per MORTH specifications. (i) Bituminous surface @ 0.25 kg /Sqm	sqm.	5780.00	16.56	95716.80
7	Bituminous Concrete (Providing and laying bituminous concrete with minimum 40-60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder @ 5.0 to 6.0% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects)				
A	With sensor paver finisher				
(i)	for Grading II (13.2 mm nominal size) with bitumen 6.0 %	cum	180.00	11,143.55	2005839.00
8	Type - A, "W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanized by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x5 mm, 330 mm long complete as per	meter	120.00	2,816.22	337946.40



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
	clause 811.3 as per MORTH specifications)				
	TOTAL OF SCHEDULE (D)				14,359,282.40
	Schedule: E- Station Buildings, Quarters, Platform Works (CIVIL)				
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	10103.00	127.93	1,292,476.79
2	Supplying and filling sand in plinth and under floor including watering, ramming, consolidating and dressing complete	Cum	1227.00	808.07	991,501.89
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 cost as p	Cum	13277.00	265.62	3,526,636.74



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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	11419.00	19.10	218,102.90
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	4258.00	25.35	107,940.30
6	Supply of mooram for platform surfacing	CUM	7580.00	402.22	3,048,827.60
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	1262.00	3223.14	4,067,602.68
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	114.00	5371.21	612,317.94
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	1666.00	4619.69	7,696,403.54
10	Providing & and applying pre-construction Anti- Termitite 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	3678.00	103.73	381,518.94
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	3150.00	5950.12	18,742,878.00
12	Centering and shuttering including strutting, propping etc. and removal of form for :				



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
a	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	3408.00	157.59	537,066.72
b	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	4934.00	278.74	1,375,303.16
c	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	6927.00	244.66	1,694,759.82
d	Columns, pillars, posts and struts	Sqm	3916.00	336.26	1,316,794.16
e	Stairs (excluding landings) except spiral-staircases	Sqm	411.00	299.51	123,098.61
f	weather shade, chajjas, corbels etc. including edges	Sqm	482.00	413.91	199,504.62
g	Edges of slabs and beams in floors and walls under 20cm wide	Sqm	755.00	89.06	67,240.30
h	Walls(any thickness) including attached plasters,butresses	Sqm	3609.00	268.32	968,366.88
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	1580.00	3709.98	5,861,768.40
b	Extra over item 13a for all works above plinth level upto floor two level	Cum	1423.00	200.83	285,781.09
c	Extra over item 13a for brickwork in superstructure beyond second floor level for every 3m or part thereof	Cum	143.00	384.22	54,943.46
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	227.00	426.45	96,804.15
b	Extra over item 14a for half brick masonry in superstructure above plinth level up to floor two level	Sqm	189.00	55.52	10,493.28
c	Extra over item 14a for half brick masonry in superstructure above floor two level for every floor or part thereof.	Sqm	20.00	20.49	409.80
15	15 mm thick cement plaster of prop 1:6.Inside plaster (Including Cement)	Sqm	9533.00	122.63	1,169,031.79
16	12 mm thick cement plaster of mix 1:4 Ceiling plaster (Including Cement)	Sqm	3921.00	119.63	469,069.23
17	12 mm thick cement plaster of mix 1:4 Outside plaster (Including Cement)	Sqm	7232.00	119.63	865,164.16



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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	4044.00	1260.10	5,095,844.40
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	145.00	317.46	46,031.70
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	220.00	857.57	188,665.40
21	Providing and fixing Ist 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	938.00	765.23	717,785.74



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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				
22.1	In flooring on a bed of 10mm thick mortar 1:4 (1 Appropriate cement : 4 coarse sand) (including all materials)	Sqm	75.00	1220.18	91,513.50
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				
23.1	300mm x 300mm x 30mm thick	Sqm	530.00	818.54	433,826.20
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	1283.00	1288.52	1,653,171.16
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: 4coarse 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	194.00	3223.82	625,421.08
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.	81.00	174.03	14,096.43



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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	67.00	974.51	65,292.17
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	2029.00	399.00	809,571.00
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 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	Sqm	239.00	187.01	44,695.39
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	410.00	2541.86	1,042,162.60

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
31	Providing wood work in frames of doors window,clerestorywindows,and other framesand trusses,wrought,framed and fixed in position in second class teak wood	Cum	25.00	105641.65	2,641,041.25
32	Providing and fixing panelled/glazed of panelled and glazed shutter for dooors>window and clerestory windows includingISI marked black enamelledMS butt hinges with necessary screws excluding ,panellingglazing which will be paid separately second class teak wood ,35 mm thick	Sqm	261.00	2743.59	716,076.99
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	697.00	2595.70	1,809,202.90
34	providing and fixing in position collapsible steel shutter with vericle channel 20x10x2mm and braced with flat ircon diaogonal 20x5mm size with top and bottom Rail of T-ircon 40x40x6mm with 40mm dia steel pulleys complete with bolts,nuts, locking aarangement,stopppers,handle and hold fastes including applying of priming coat of approved steel primer.	Sqm	116.00	3718.23	431,314.68
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	411.00	779.41	320,337.51




Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
36	Providing and fixing 30mm thick glass fibre reinforced(FRP) panelled door shutter of required colour and approved brand and manufacture made with fire retardant grade unsaturated polyester resin ,moulded to 3mm thick FRP laminated for framing hollow rails and styles with wooden frame and suitable 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	137.00	3806.21	521,450.77
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	3431.00	94.39	323,852.09
38	Construction of Brickwork handrail for stairs	Mtr.	90.00	1161.37	104,523.30
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	375.00	212.48	79,680.00
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				
40.1	Size 250mmx10mm	Each	263.00	88.33	23,230.79
40.2	Sie 150 MMx10mm	Each	129.00	66.76	8,612.04
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				
41.1	125 mm	Each	420.00	63.40	26,628.00
41.2	100 mm	Each	188.00	52.19	9,811.72
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	251.00	37.20	9,337.20
43	Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete	Sqm	16510.00	94.77	1,564,652.70

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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	16510.00	45.76	755,497.60
45	White washing with lime to give an even shade on new work (three or more coats)	Sqm	1654.00	11.59	19,169.86
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	12502.00	97.54	1,219,445.08
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	85.00	2019.41	171,649.85
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	31.00	4428.25	137,275.75
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	85.00	87.15	7,407.75
50	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	661.00	13.61	8,996.21
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	691.00	62.25	43,014.75
52	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	1256.00	29.69	37,290.64
53	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade				

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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	1256.00	92.14	115,727.84
54	P&F 127mm dia C.P. steel Jali cockroach trap (CCTR-127) for gully floor or Nahani trap	Each	126.00	282.04	35,537.04
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	79.00	1553.48	122,724.92
56	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete	Mtr.	1268.00	308.02	390,569.36
57	Providing and fixing 75mm PVC soil pipe	Mtr.	48.00	180.18	8,648.64
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	392.00	123.82	48,537.44
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	34.00	3668.31	124,722.54
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	28.00	4666.63	130,665.64
61	Providing and fixing Towel rail (C.P.) brass 15 mm dia x 450 mm long having approx. wt. 380 gm	Each	79.00	430.97	34,046.63
62	Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement	Litre	54200.00	9.41	510,022.00
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.	393.00	250.00	98,250.00

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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.	302.00	296.62	89,579.24
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.	257.00	305.78	78,585.46
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.	1055.00	359.44	379,209.20
67	Providing and fixing brass bib cock of approved quality conforming to IS: 8931, 15 mm dia nominal bore.	Each	79.00	310.09	24,497.11
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	64.00	448.22	28,686.08
69	Providing and fixing Shower rose (C.P.) brass with swivel joint having approx. wt. 270 gm	Each	55.00	389.08	21,399.40
70	Providing and fixing ISI marked Gun Metal Gate valve with C.I. wheel of approved quality. (Screw end) 25 mm nominal bore	Each	61.00	505.35	30,826.35
71	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets, 20mm dia (heavy type)	Mtr.	321.00	132.44	42,513.24
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.	283.00	326.42	92,376.86
73	Extra for using veneered particle board in item of pelmet 18 mm thick 150 mm wide	Mtr.	283.00	90.46	25,600.18



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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.	60.00	929.29	55,757.40
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				
75.1	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	40.00	7405.90	296,236.00
75.2	Extra for depth for manholes of size 90x80cm	Mtr.	200.00	3891.24	778,248.00
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.	570.00	565.37	322,260.90
77.2	Extra over 75m drilling for 200mm dia	Mtr.	180.00	112.81	20,305.80
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.	570.00	1896.25	1,080,862.50
81	Providing and fixing medium grade GI pipes complete with GI fittings				
81.1	80mm dia nominal bore	Mtr.	750.00	798.56	598,920.00
82	Providing and installing 5 HP Kirloskar or equivalent submersible pump	Each	13.00	57138.69	742,802.97
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,frames,guard bar,ladders,railings,brackets,gates,and similiar works	Kg.	24444.00	95.20	2,327,068.80

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Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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.	51.00	512.94	26,159.94
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	60.00	2834.94	170,096.40
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	49.00	1964.46	96,258.54
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	150.00	418.13	62,719.50
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	9.00	12331.32	110,981.88



Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
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	75.00	529.20	39,690.00
89.2	80mm thick blocks of M35 grade for medium traffic	SQM	75.00	612.83	45,962.25
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	9000.00	149.93	1,349,370.00
91	Providing and laying of S&S centrifugally cast spun iron pipes	Mtr	90.00	1372.47	123,522.30
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	600.00	600.89	360,534.00
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				

Item No.	Description of item	Unit	Quantity	Basic Rate (In Rs.)	Basic Amount (In Rs.)
93.1	8mm thick superior quality black granite tiles	SQM	30.00	1751.62	52,548.60
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	12.00	1581.56	18,978.72
95	PTMT push cock 15mm dia	Each	24.00	121.46	2,915.04
96	PTMT extension nipple 15mm	Each	24.00	50.99	1,223.76
97	50mm Dia GI pipe	Each	24.00	512.95	12,310.80
98	15mm dia GI pipe	Each	24.00	248.34	5,960.16
	TOTAL OF SCHEDULE (E)				88,733,802.58

Sl. No.	Description of Items	Unit	Qty.	% Escalation on Basic rate	Departmental Basic Value (in Rs.)
	Schedule-F : Other items of Work not covered by above schedules (SECR-USSOR-2021)				
1	Any item of SECR-USSOR-2021 not covered by any other item of Schedules - A,B,C,D & E but required to be executed for successful completion of the work as deemed necessary by the Engineer.	Basic value	30000000	5.42%	3,16,26,000.00
	Total Schedule-F				3,16,26,000.00

Note:- Items covered under SECR-USSOR-2021 (i.e. under Schedule F above) are inclusive of GST @12%, therefore items executed under Schedule F will be paid by deducting GST @12% thereafter adding escalation on quoted rate and thereon adding prevalent GST rate (i.e. @18%).

S.N o.	BO Q lte m No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		Schedule - G: General Electrical Works							
		Electrification of Staff quarters.							
1	GS -1	Electrification of staff quarter complete with point wiring, circuit wiring, sub main wiring etc. with Fire Retardant (FR) PVC insulated, multistandard, copper conductor, single core cable on surface/in recessed PVC conduits, along with provision of							

S.N o.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		luminaries with lamps, call bells, ceiling & exhaust fans, distribution boards, loose wire box, geyser, energy meters in M.s. Box including earthing with G.I. Pipe electrode etc. as per scale of fitting and cable sizes, nos. of points permissible in each and sub main/s etc. for each type of quarter as indicated in Explanatory Notes.							
2	GS -1 (i)	Type- II Quarter	Each	12	0	37220	0	446640	446640
3	GS -1 (ii)	Type- III Quarter	Each	6	0	46721	0	280323	280323
4	GS -1 (iii)	Type- IV Quarter	Each	3	0	86434	0	259303	259303
5	GS 1 (iv)	extra for staircase light point controlled with 2 Nos. 2Way switches	Each	2	0	761	0	1522	1522
6	GS 1 (v)	Type- V Quarter	Each	1	0	108043	0	108043	108043
		Electrification of service building, officers rest house, running room, crew lobby, passenger shelter, sheds, pump house, sub station Building, offices ETC AND Additional Requirement of Quarters, LC Gates ETC.							
7	GS - 3(i)	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	Point	750	0	1374	0	1030583	1030583

S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		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.							
8	GS - 3(ii)	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.	Point	90	0	2520	0	226839	226839
9	GS - 3(iii)	Extra for provision of industrial type iron clad plug socket with 32A DP MCB in M.S.Box	Point	36	0	689	0	24791	24791
10	GS - 3(iv)	Multiplug points (Power strip 3 No. 6A socket controlled by 16A switch) similar to legrand cat no. 6745.48 OR as approved by engineer.	No.	12	0	82	0	984	984
		Provision of Luminaries, FANS, WATER Cooler ETC.							
11	GS - 4	Supply, installation, testing and commissioning of Light sensitive street light controller Bajaj Energy Pack 25 KW or equivalent as approved by engineer for street light/ high mast complete with infrared sensors, contactors and MCB, terminal board etc. for	No.	3	36944	1773	110833	5320	116153

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S.N o.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		25KW load Operative voltage 185-275V AC.							
12	GS -5	Supply, installation, testing and commissioning of 230VA.C. ceiling fan with double bell bearing and suitable capacitor complete with wiring with 1.5sq mm FR, PVC insulated, copper conductor single/three core cable as instructed. Etc as required.							
13	GS -5 (i)	1200 mm (Without Regulator)	No.	90	1721	297	154898	26726	181625
14	GS -5 (ii)	1400 mm (Without Regulator)	No.	30	1871	324	56135	9707	65842
15	GS -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.	120	351	86	42149	10345	52494
16	GS -7 (i)	Supplying, installation, testing and commissioning of LED lamp 9-15 watts, 250 volts, 2 pin.	No.	60	184	32	11048	1916	12964
17	GS -7 (ii)	Supply, erection, testing and commissioning of recessed type LED luminaires for 2x2 Grid ceiling 3300 lumens. similar to phillips cat. No. RC3658 LED33-5000 PSU OD WH or Halonix	No	3	13123	724	39368	2171	41539

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S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
18	GS-7 (iii)	Supply, erection, testing and commissioning of LED down lighter, housing aluminium die cast, white powder coated and PMMA diffuser having system wattage 15W and lumen efficacy 50 lumens/watt as per IS/IE rules make crompton Greaves, Phillips, Halonix, Havells or similar or LED Bulk head fitting suitable for 5-15 W LED	No.	12	1944	536	23322	6437	29760
19	GS-7 (iv)	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 3500lm, confirming to IEC 60598 and IS 10322 and railway specification. Make Crompton Greaves, Phillips, Halonix, Havells.							
20	GS-7 (iv) (b)	Street Light LED 40-45 W	No.	6	11083	482	66500	2893	69393
21	GS-7 (iv) (c)	Street Light LED 70-75 W	No	90	15291	482	1376168	43394	1419563
22	GS-7 (iv) (d)	Street Light LED Flood light 240 W	No.	24	36853	482	884467	11572	896039
23	GS-7 (v)	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.	450	1623	116	730427	52209	782636
24	GS-7 (vi)	Supply and installation of 5 watts sleek LED mirror light with diffuser and	No.	12	1571	31	18852	370	19223



S.N o.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		LED lamp similar to crompton greeves LTD model LINNET LCL05-CDL complete or equivalent or as per railway specification as approved by engineer.							
25	GS -7 (vii)	Supply, erection, testing and commissioning of flood light LED light similar of phillips model BVP 410 LED 144 CW HE NB FG S3 XT IP 65,220-240V 140W or equivalent as approved by engineer, nominal made of LM6 PDC Housing and cover, mounting C clamp/fixture complete	No.	3	40321	578	120962	1734	122695
26	GS -8	Supplying, erection, testing and commissioning of exhaust fan suitable for 1-Phase, 230 Votts, 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.							
27	GS -8 (i)	AC exhaust fan 150 mm with louver shutters.	Nos.	9	1544	366	13900	3295	17195
28	GS -8 (ii)	AC exhaust fan 300 mm 900 rpm with/without louver shutters.	No.	45	2777	479	124963	21554	146516
29	GS -8 (iii)	AC exhaust fan 450 mm with/without louver shutters.	Nos.	3	6661	366	19983	1098	21081
30	GS -8 (iv)	AC bracket fan 400 mm similar to Havell's Swing Remote of equivalent as approved by engineer.	Nos.	3	3809	184	11428	552	11981



S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
31	GS -9	Supply, Installation, testing and commissioning of self contained drinking water cooler 150 liters capacity complete with all connected standard fittings, accessories etc. and 3.5KVA(min.), wall mounted I.C controlled electronic auto-voltage corrector with time delay relay connection to earthing system etc as required.	Each	3	71256	12347	213769	37040	250810
32	GS -10	Supply, Installation, testing and commissioning of AC Unit complete with LCD display and cordless remote suitable for 1-phase 230±10% voltage AC supply including supply and installation of 5KVA wall mounted Ic controlled electronic auto voltage corrector.							
33	GS -10 (a)	2.0 Tonne window type (Not Less than 3 star energy rating)	No	6	42678	3243	256069	19459	275527
34	GS -10 (b)	1.5 Tonne spilt type AC (5 star rating)	No.	12	41930	3243	503158	38918	542076
35	GS -11	Supply & erection of energy efficient storage type geyser 25 liters capacity.	Nos.	6	4381	483	26286	2899	29185
36	GS -12	Supply of Five star rated double door refrigerator with digital inverter 275 L.	Nos.	3	32942	0	98827	0	98827
		L.T. Switch Boards And Feeder Pillars							
37	GS -13	Supply, installation, testing & Commissioning of cubical type, wall mounted, dust & vermin proof. LT switch of different capacities.							

S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
38	GS-13 (e)	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-bars 200A in bus bar chamber vi) Indication lights.	No.	6	69873	12107	419237	72643	491880
39	GS-14	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.							
40	GS-14 (ii)	a) with TPN MCCB 63A, 35KA, Fixed type (Ics=100% Icu) - 1 no b) Copper busbars 200A (for 10 KVA AT)	No.	6	14017	3793	84100	22761	106861
41	GS-15	Supply, installation, testing and commissioning of weather proof, L.T feeder pillar of different capacities.							
42	GS-15 (i)	LT Feeder Pillar 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, 40A, 10KA - 04Nos.	No.	3	79251	13731	237753	41194	278947



S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		iv) Sleeved/Epoxy coated copper bus-bas 200A in bus bar chamber vi) Indication lights.							
43	GS -15 (ii)	LT Feeder Pillar 125 Amp comprising items indicated as under: i) Incoming MCCB 125A, 4 pole, 35kA, (ICS=100% Icu) - 1 No. ii) Outgoing MCCB 63A, 25kA, (Ics=100% Icu) - 04 Nos. iii) Outgoing MCB 40A, 4 pole, 10 kA - 04 Nos. iv) Outgoing MCB 32A, double pole, 10kA - 06Nos. v) Modular digital time switch and 3 phase contractor 63A -2 set vi) Sleeved/Epoxy coated copper bus-bas 250A in bus bar chamber vi) indication lights.	No.	3	94585	16389	283756	49168	332924
44	GS -15 (iii)	LT Feeder Pillar 250 Amp comprising items indicated as under: i) Incoming MCCB 250A FP 35KA (ICS=100% Icu) Fixed Type - 1 No. ii) Outgoing MCCB 125kA, FP 35KA (Ics=100% Icu) Fixed Type - 02 Nos. iii) Outgoing MCB 63 Amps FP 25KA (Ics = 100% Icu) Fixed Type - 04 Nos. iv) Outgoing MCB 40 Amps FP 10 KA - 04Nos. v) Outgoing MCB 32 Amps DP 10 KA - 06 NOs. v) Modular digital time switch and 3 phase contracxtor 63A -2 set vi)Sleeved/Epoxy coated copper bus-bas 400A in bus bar chamber vi) indication lights.	No.	3	146688	25416	440065	76249	516314

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S.N o.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		EXTERNAL ELECTRIFICATION WORKS							
45	GS -17	Supply & erection of G.I Octohonal pole including digging of pit, making M 10 foundation with cement, sand & ballast, mufing concrete upto 300 mm above ground level in ratio 1:2:4, grouting of foundation bolts, accomodating class 'B' ISI marked G.I. Pipe in foundation upto 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-Core, 3nos. LT cables and clamping with pole, as required. (Payment of G.I. pipe shall be made against the relevant BOQ item).							
46	GS -17(i)	7/9 meters long	No.	45	13118	3553	590327	159879	750206
47	GS -17(iv)	Additional cost of single arm bracket suitable for street light fixture	No.	15	395	108	5923	1613	7536
48	GS -17(v)	Additional cost of double arm bracket suitable for street light fixture	No.	45	47	128	2107	5748	7855
49	GS -18	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:		51					
50	GS -18(i)	32 mm dia	Meter	51	237	43	12105	2172	14276

S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
51	GS-18 (ii)	40 mm dia	Meter	210	283	48	14439	2443	16882
52	GS-18 (iv)	65 mm dia	Meter	105	462	82	97007	17212	114219
53	GS-18 (v)	80 mm dia	Meter	51	615	106	64597	11176	75773
54	GS-19	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.							
55	GS-19 (i)	For-5-10 KVA AT	No.	6	65399	11332	392395	67994	460390
		ELECTRIFICATION of FOOT OVER BRIDGE							
56	GS-20	Electrification of foot over bridge complete with 3.5 meter long. 50 mm dia, GI pipe pole with GI pipe bracket, luminary with lamp, M.S. junction box. Connection from junction box to luminary with 1.5 sq. mm. flame retardant (FR) PVC insulated, copper conductor cable and connection to earthing system etc. and as per scale of fitting indicated in Explanatory Notes.	No.	3	0	12792	0	38375	38375
		POWER SUPPLY DISTRIBUTION ARRANGEMENT							



S.N o.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
57	GS -26	Supply, erection/fixing of fire extinguishing equipments (ISI) Marked, Rubber mat (ISI Marked). GI fire buckets filled with clean dry sandheld on free standing steel stand. First Aid Box with medicines (ISI marked) and associated materials, shock treatment chart on aluminum frame. Schematic diagram of HT/LT installation & transformer data on white hylem sheet with aluminium frame and fixing/providing in the stations as per details in explanatory notes.	Set	3	62354	10804	187062	32413	219476
EARTHING ARRANGEMENT									
58	GS -29 (1)	Earthing with 3 meter long, 50 mm dia. G.I. pipe class "B" earth electrode, addtting 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	90	2616	453	235461	40809	276269
59	GS -29 (2)	Supply & erection of maintenance free earthing system	Nos.	12	0	15846	0	190156	190156
60	GS -32(i)	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.	Meter	150	59	12	8781	1757	10538
Cabling									
61	GS -33	Supply, laying 1.1KV grade LT XLPE insulater armoured, alumium conductor cable, making good the damages, end terminations with							

S.No.	BO Q lte m No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		aluminium crimping socket/lugs, provision of cable route markers, testing and commissioning etc. as required as per Technical specifications:							
62	GS -33 (i)	2 Crore 16 Sq. mm.	Meter	1500	253	63	379980	94200	474180
63	GS -33 (iii)	2 Crore 70 Sq. mm.	Meter	3000	499	87	1497570	261840	1759410
64	GS -33 (v)	4 Crore 16 Sq. mm.	Meter	7500	327	80	2450700	598725	3049425
65	GS -33 (vii)	4 Crore 70 Sq. mm.	Meter	1800	737	129	1325772	231822	1557594
66	GS -33 (xii)	Extra for provision of cable route marker	No.	180	307	16	55177	2875	58052
		Electrification by High Masts							
67	GS -34 A	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 construction lights, control panel, multicore flexible copper conductor cable, connection to earthing system, and fencing panel as per required.							
68	GS -34 A (iii)	16 m high mast system with 9 nos. luminaries (2x100 W LED with lamps) make Havell's or better, symmetrically arranged	Job	3	897444	97905	2692332	293715	2986047
		LAYING of 11/33 KV Cables							
69	GS -39 (i)	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	Meter	60	412	45	24715	2682	27397


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S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		excavated earth after laying of pipe and making good the damages as required.							
70	GS-39 (iii)	Supply and laying of DWC/Split DWC pipe of size 200 mm outer dia and 175mm 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.	Meter	300	279	34	83661	10218	93879
71	GS-39 (v)	Supply and laying of HDPE pipe of size 200mm inner dia and 240mm outer dia, ISI marked 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	60	2983	272	179006	16349	195355
72	GS-39 (vi)	Supply and laying of HDPE pipe of Nominal Diameter: 63 mm, Thickness (Minimum): 4.40 mm, Material Grade PE-63 Pressure Rating: PN 6.0, Weight in Kg./Mtr: 0.764, @ Density: 0.944, ISI marked 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 inclusive of all bends.	Mtrs.	105	182	18	19111	1901	21012
73	GS-39 (vii)	Supply and erection of bend for 200 mm HDPE pipe	Nos.	24	6272	575	150536	13794	164330
		PROVISION of PUMPS							

S.N o.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
74	GS -40	Supply, installation, testing & commissioning of energy efficient submerible pump set complete with motor suitable to operate on 3 phase, 415V, 50Hz AC supply along with control panel (having dry run protection, single phasing protection), sumersible cable of suitable rating etc complete for supplying water at suitable discharge and designed for 100 mt head or as per site requirement.							
75	GS -40 (ii)	5 HP Pump Set	Job	6	66530	7259	399178	43554	442732
	MISC Works								
76	GS -41	Co-ordination/liasoning and chasing with state utility company for availing new electrical connection/augmentation n of sanctioned load at station, level crossing etc. including applying for load, collection of estimate 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 Locat ion	9	0	8552	0	76970	76970
77	GS -42	Design and preparation of working & completion drawings of all HT/LT electrical installation of the project section where work is carried out such as platfrom lighting.	Job	6	0	176259	0	1057553	1057553

S.No.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		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.							
		GLOW SIGN BOARDS							
78	GS -44	Supply, installation, testing & commissioning of out door type, single side, Double side glow sign boards/Pictorial signage boards with suspension/side mounting/wall mounting type arrangements as required. (Payment for double sided glow signboard shall be made @150% of the single sided glow sign boards)	Sq. Feet	375	324	54	121339	20355	141694
		DISMANTLING WORKS.							
80	GS - 48(i)	Dismantling of erected pole/overhead conductor, GI wire, cross arm brackets, insulators, stay, luminary etc including accountal, stocking, handing over of released materials to Railway authorized official as instructed by the Engineer and making temporary, arrangements if required.	No	3	0	811	0	2433	2433
81	GS - 48(i)	Dismantling of sub-station equipments such as transformer DG set, HT/LT panels, cables etc. at site including transporting, stocking and handing over of Electrical department as instructed by the Engineer and making temporary,	Job	3	0	16219	0	48657	48657



S.N o.	BO Q lte m No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic (In Rs.) Amount		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
		arrangements if required.							
		N.I. WORKS							
82	GS -49 (i)	Provision of temporary lighting arrangement with 1x40watt F.L tube light fittings/CFL fitting/Flood light/Halogen fitting and pedestral/ceiling fans, desert coolers in temporary tents, buildings, goomtias, 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	9	0	24328	0	218955	218955
83	GS -49 (ii)	Extrs 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	9	0	4828	0	43452	43452
		MISC. ITEMS							
84	GS -50	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/00 93-2008 (Rev.0) Amend-3	No.	6	43926	3477	263553	20864	284417



S.N o.	BO Q Item No.	Description of items	Unit	Qty	Basic rate (Rs.)		Basic Amount (In Rs.)		Total Amount (In Rs.)
					Supply	Erection	Supply	Erection	
85	GS -51	Supply, Installation, testing and commissioning of FLAT PLATE COLLECTOR BASED type solar water heating system complete with heat exchanger Type 2 for warm region, solar collector, insulated tank, supporting stand, connecting pipes, instrumentation etc. including tapping of water supply from the existing arrangement/ system as required. Rated capacity in litres per day (LPD): 500, Min. aperture area of collector (sq.mtrs.): 9.0, Electrical heater back up (KW): 6, Capacity of make up tank (ltrs): 5	Job	3	44657	12317	133970	36951	170921
86	GS -52	Design, Supply, erection and commissioning of grid connected solar power point consisting of solar panels, PCU mounting structing and all the associated equipments as per RDSO/PE/SPEC/PS/00 92-2008 (REV 0) with latest ammendment.	KWp	9	83783	11554	754048	103984	858031
87	GS -53	Supply & erection of perorated cable tray size 75x75x360mm manufactured with 2mm thick G.I. sheel, holding on G.I. Angle 50x50x6mm for support as required.	Mete r	150	564	158	84618	23630	108248
88	GS -56	AC Sub distribution board 40 Amps with DP MCB 40 Amp, 1 for incomming, 4 Nos 20 Amp DP MCB, and 4 Nos 20 Amps DP MCB for outgoing	No	12	2909	321	34907	3857	38764
		TOTAL of Schedule -G					1862880 0	6741734	2537053 4