

(Letter of Acceptance)

NO. IRCON/2046/NFR-SRRP/Riyang Station/252/ 5948

Date: 15/04/2023

To,
M/s. PABSCON,
P-209, Lake Town,
Block-B, Kolkata.
Pin Code: 700089
e-mail ID: biplabsaha@pabscon.in
Mobile No. +91 9831208776

Dear Sir,

Sub: Construction of Railway Staff Quarters, Station Building, platform & Passenger Platform Shelter as per approved plan including electrification, water supply, sanitary facilities and all other ancillary works required for the successful completion of the work facilities at Riyang Railway Station in connection with Sivok- Rangpo New BG Rail Line Project- **Letter of Acceptance**

Ref: (i) NIT No. IRCON/2046/NFR-SRRP/Riyang Station/252 Date: 20.02.2023
(ii) Your Technical bid opened on dated 18.03.2023 and Financial bid opened on dated 13.04.2023
(iii) Your offer letter No. PAB/IRCON-RIYANG/TENDER/2023/002 dated 13.03.2023

With reference to above, this is to inform you that your offer for the subject work of "Construction of Railway Staff Quarters, Station Building, platform & Passenger Platform Shelter as per approved plan including electrification, water supply, sanitary facilities and all other ancillary works required for the successful completion of the work facilities at Riyang Railway Station in connection with Sivok- Rangpo New BG Rail Line Project" has been accepted by IRCON International Limited at total value of Rs. 28,56,09,953.26/-. The summary of BOQ accepted by the competent authority is enclosed herewith.

(I) SCOPE OR WORK:

The scope of work includes "Construction of Railway Staff Quarters, Station Building, platform & Passenger Platform Shelter as per approved plan including electrification, water supply, sanitary facilities and all other ancillary works required for the successful completion of the work facilities at Riyang Railway Station in connection with Sivok- Rangpo New BG Rail Line Project" as per approved drawings. It includes the following:

- (A) Construction of Station Building, Location Huts
- (B) Construction of Platform and Passenger Platform Shelter
- (C) Construction of railway staff quarter Type-II (24 units)

- (D) Construction of railway staff quarter Type-III (02 units)
- (E) Construction of railway staff quarter Type-IV (02 units)
- (F) Construction of subway connecting Platform 1 & 2
- (G) Construction of Approach road and drainage work at Riyang Railway station, quarters etc.
- (H) Construction of boundary wall
- (I) Construction of water supply & storage facility and installation of water distribution network.
- (J) Electrification and all other fitting work as per requirement & approved drawings etc.

The above work also cover the following activities:

The Survey work shall involve taking over of sight, contouring of staff area and nearby area, with center line pegs, checking and verification of benchmarks and protection of the same, taking & recording cross sections of natural ground levels.

1. Removing of stumps and roots and disposal as instructed. Clearing the site by removing vegetation encountered during earthwork between toe of bank and top of cutting and disposal as instructed.
2. Earth work in excavation in all kind of soils including ordinary rock (not req. blasting) & hard rock (blasting prohibited) etc. by mechanical means (Hydraulic excavator)/ manual means at hillslopes up to any height, making of temporary access road as the method of construction is top to down, making of berms, surface drains complete job as per the specifications and approved drawings and disposal of muck as instructed by Engineers. Selected and approved cut muck/spoils after crushing and screening required to use in filling work.
3. Earthwork in filling above the Lower portion using collected earth spoils from cutting, laid in layer and compacted bring it to required profile as per approved drawings and specification as a complete job and as directed by Engineer-in- Charge.
4. Earthwork in filling during construction of approach road, staff quarters, station building, platform etc. with contractor's own earth and cut muck/spoils coming out from cutting.
5. Temporary and permanent diversion of existing Nalla as per drawings or as instructed by Engineer-in-charge by deep excavation. No extra payment shall be paid.
6. The drawings with e-procurement documents are for guidance only and the work shall be done as per final approved 'Working drawings/Good for Construction drawing' and or as per the instructions of Engineer. The tenderer/s will not have any claim on account of this.

NOTE: Drawings shall be followed as per Clause 78.0 of SCC of this tender document.

7. Submission of detailed construction schedule, method statements with related detailed drawings and equipment planning, for various items of work. Resource based construction program shall be prepared by the contractor and submitted within 21 days from date of LOA. After submission of this resource based construction program, contract will be signed and it shall be part of the contract agreement.
8. Contractors are requested to visit the site prior to fill/submit the tender and check all the necessary attributes/matters related for completion of this project.
9. For road works, widening/ re-cambering/ raising/ milling down & overlaying of carriageways, flexible/rigid pavement at grade road intersections & accesses to adjoining developments as per approved drawings and site instructions by IRCON officials/Engineers.
10. For road works, the bitumen mastic is composed of suitably graded mineral filler and coarse aggregates, fine aggregates and hard grade of bitumen as to form a coherent, void less, impermeable mass, solid or semi-solid under normal temperature conditions, but sufficiently

fluid when brought to a suitable temperature to be spread by means of a float in manual construction and by paver in mechanised construction.

11. The Contractor shall make good all works including building units, station building, platform, road surfaces, drains, concrete slabs, gratings, kerbs, pavements, turfing, railing, fence, boundary wall, electrification, water supply system etc. affected or damaged during the course of construction, to the satisfaction of the Engineer. The costs of making good all these defects shall be borne solely by the Contractor and deemed included in his Contract Sum.
12. All works specified shall include the provision of all labour, tools, equipment, material, aggregate, sand, bitumen, mastic asphalt and any other materials required for completion as per technical requirement, traffic control, transport and everything else necessary for the satisfactory completion of the work by the Contractor to the satisfaction of the Engineer and cost shall be included and no other extra payment shall be made.
13. Description of the Works involved in this Contract is given in the Specifications for the guidance of the Contractor. The Contractor shall be solely and fully responsible for investigating and Ensuring the actual extent and nature of the works comprised in the contract prior to submission of his tender.
14. Construction management and the quality of the works shall comply with the drawings, specification and employer's requirement.
15. Details and drawings given in e-procurement document is for information purpose and successful bidder shall undertake confirmatory survey for accuracy and completeness of data. It is in scope of successful Bidder to undertake all Site surveys, Utility Surveying and Scanning of the roads, obtaining all required approvals from the relevant authorities.

16. Electrification work:

The scope covers design, analysis; detailed engineering shall include preparation and submission for review and obtaining approval from the client of all relevant drawings, calculations. Scope of work also include supply, storage of relevant equipment/ items/ accessories, and erection, testing, commissioning of all the electrical items, equipment, and accessories as required to run the system efficiently. A few are appended below and the scope of submission shall not be limited to the followings:

- i. Preparation of 'Design Basis Report', engineering of electrical system, system design, tabulation of electrical load list.
- ii. Preparation of Single Line Diagram detailing protection, control, metering system and it should contain all the details rating of equipment
- iii. Preparation of general arrangement drawing, layout drawing with plans, sections, elevations coordinating other services avoiding interferences.
- iv. Preparation of both indoor and outdoor lighting layouts.
- v. Preparation of cable tray layouts showing all supporting details.
- vi. Equipment, items sizing calculations.
- vii. Any fabrication works necessary for erection / installation works shall be in scope of the Contractor.
- viii. The interfaces with other units as per tender document shall be worked out and interferences with other systems shall be coordinated during installation stages for smooth, effective completion of the job meeting the tender specification.
- ix. Obtaining approval from relevant statutory authorities as applicable for commissioning and running of the system.



- x. The technical specification guidelines provided with this tender document shall be followed. However, it shall be the responsibility of the bidder / contractor to adopt good engineering practices for completeness of the system to render desired outputs at all levels of operation but prior approval must be taken from engineer in charge before execution of work in case of deviation from technical specification.
- xi. Work has to be carried out as per approved drawing and as per direction of Engineer in charge.
- xii. All the internal and external lighting works and its control.
- xiii. All external cabling works including trays and trenches, pipes etc. as per necessity for laying of cables. The cable trays needed for laying of cables from main Sub Station LT Panel to LT Panels at Platforms and LT panels at Switch Rooms at different levels at station Building shall also be in scope.
- xiv. The scope shall cover all the electrification within building and at Platform, FOBs including lighting, fans, raw power outlets etc. The lighting needed at building facades shall also be in scope.
- xv. All the Distribution Boards for Lighting, Power etc. getting feeds from the Main panels at each floor of the Station Building, Platforms including all cabling. All the control cabling works needed between the limits in scope for electrifications works.
- xvi. The cable trays, Pipes etc as required for cabling works in scope.
- xvii. All earthing systems, lightning protection systems for station building, platforms, FOB. Also, the earthing systems for all equipment, cable tray, Distribution Boards etc complete in scope of supply, installation, testing, commissioning works.
- xviii. The payment shall be made as per actual measurement and counts.
- xix. The Contractor shall also execute all such works which, in the opinion of the Employer, are required to be executed for the successful completion of the work. All such works shall be deemed to have been included in the original scope of the tender.
- xx. The documents needed for technical evaluation of offers from vendors / contractors and the documents required from the finally selected vendor / contractor are noted in tender documents under individual specifications. However, it may be noted the submissions shall not be limited to those mentioned and the vendor(s) / contractor(s) shall have to submit additional information / documents / drawings as needed time to time at various stages of progress.
- xxi. The bidders have to submit six copies (or number of copies to be submitted shall be as per agreed requirement of the end client/ user) of each of the as built drawings and the soft copies shall be submitted in CD (two numbers for each).

The above items of work shall include but not limited to the following:

- a) All safety arrangements as per relevant IS Codes of practice and as specified in the e-procurement documents.
- b) Lighting during construction, pumping of water, construction of provisional sump pumps, tanks for decantation, other kind of tanks because health, safety and environmental issues.
- c) Maintenance of all works for the specified period.
- d) The contract envisages all permanent and temporary works, which are necessary for the efficient excavation and completion of work. The information and data stated herein and incorporated in contract elsewhere is for the general guidance only and may vary as a result of more detailed site investigation and construction approved drawings.
- e) All works specified shall include the provision of all labour, tools, machineries, equipment, material and any other materials required for completion as per technical requirement, traffic control, transport and everything else necessary for the satisfactory completion of the work by the Contractor to the satisfaction of the Engineer and cost shall be included and no other extra payment shall be make.

- f) The contractor shall be responsible for the arrangements to obtain water supply for drinking and construction works. Rates quoted by the contractor shall include the cost of arranging water at the site.
- g) Any electric supply required at the site/cleaning at site & accommodation etc. for works or for whatsoever purpose shall be arranged by the contractor at his own cost.
- h) Payment shall be made on the basis of measurement, monthly running account bill based on work completion during the end of the month and 'No extra payment' shall be paid for time overrun.

(II) PAYMENT TERMS:

The payment will be release as per clause no. 59 of Special Condition of Contract.

(III) QUANTITY VARIATION

The quantities of items shown in the Bill of Quantities are approximate and liable to vary during the actual execution of the work . The Contractor shall be bound to carry out and complete the stipulated work, irrespective of the variations in individual items , specified in the Bill of Quantities. Such variations in quantities shall be paid for in the manner laid down under Clause No. 41 & 42, Part (2) of GCC Railways , April'2022.

(IV) Taxes and duties:

The quoted rates shall include all the taxes, duties etc. income tax and Trade Tax on works contract shall be deducted from the payments to the contractors as per prevailing tariff for which necessary TDS Certificate shall be issued. The taxes and duties shall be dealt under clause no. 59.12 of SCC.

(V) Completion Period

The work is required to be completed within a continuous period of 12 months including monsoon period from the date of issue of letter of acceptance as per the clause no. 71 of SCC . The work has to be executed in co-ordination with other agencies working on or near the project.

(VI) Defect liability period:

Defect liability Period shall be dealt as per clause no.72 of SCC . You have to 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 of **12 months** from the certified date of completion . However, maintenance during Defect Liability Period shall not include day to day upkeep, cleaning, custody and security of the work. Any defect arising due to defective construction / material / workmanship in any structure(s) during the period(s) specified above and due to causes enumerated above, the contractor shall rectify the same at no extra cost.

(VII) Insurance:

As per the clause no. 5 of SCC , the agency have to obtain contractors All Risk policy for the works in the joint name of IRCON & agency and other policies to be obtained by the agency as stipulated under clause - 5 of SCC.

(VIII) Performance Security & Retention money:

Performance Security & Retention money shall be dealt as per clause no. 4.0 of SCC and has to deposit **3 % of Original Contract value** of Rs. 28,56,09,953.26/- i.e. Rs. 85,68,300/- (Rupees Eighty Five



Lacs Sixty Eight Thousand Three Hundred) only. The Performance Guarantee shall be obtained as per Clause No. 16 (4), Part - II of IR GCC, April'2022 .

(IX) Contract Agreement:

In terms of clause no. 8.5 of Special Condition of Contract, you will enter into and execute the contract agreement within 28 days from the date of issue of this letter.

(X) All the terms & condition will remain same as per tender document. This letter of acceptance along with your submitted offer shall constitute a legal and binding contract between **IRCON International Limited** and **M/s PABSCON**, till such time the formal contract agreement is signed.

(XI) Conditions mentioned above in this LOA are a brief reference of the terms of Tender document. Detailed Terms & conditions other than above shall also be as per NIT / Tender document & corrigendum, which shall be an integral part of this contract and shall be binding on you.

(XII) This letter of acceptance is being sent in duplicate. One copy may please be signed, stamped and returned to this office as a token of your unconditional acceptance.

Thanking You,

Enclosure:

1. Bill of Quantity

For & on behalf of
IRCON International Limited


(Renya Ete)

Chief General Manager/PH/Rangpo

Copy to:

1. PD/SRRP - for kind information please.
2. GM/PH/Sivok-II - for kind information please.
3. GM/Fin/SRRP - for kind information please.

Summary of BOQ

Name of Work: Construction of Railway Staff Quarters, Station Building, platform & Passenger Platform Shelter as per approved plan including electrification, water supply, sanitary facilities and all other ancillary works required for the successful completion of the work facilities at Riyang Railway Station in connection with Sivok- Rangpo New BG Rail Line Project.

e-Tender No. : IRCON/2046/NFR-SRRP/Riyang Station/252 Date: 20.02.2023

Sl. No.	Schedule		Details	Amount (in Rs.)
1	SOR	Schedule-A	Earth Work	76,67,087.53
2	NON SOR	Schedule-A1		1,74,506.20
3	SOR	Schedule-B	Concrete Work	6,82,97,609.90
4	NON SOR	Schedule-B1		2,91,10,522.23
5	SOR	Schedule-C	Masonry Work	2,64,20,474.66
6	NON SOR	Schedule-C1		6,30,593.70
7	SOR	Schedule-D	Door and Window work	96,64,849.12
8	NON SOR	Schedule-D1		2,35,495.80
9	SOR	Schedule-E	Steel Work	78,08,577.20
10	NON SOR	Schedule-E1		50,709.77
11	SOR	Schedule-F	Tiles & Flooring Work	2,33,32,737.70
12	NON SOR	Schedule-F1		7,73,267.00
13	SOR	Schedule-G	Plastering and Painting	1,34,14,219.66
14	SOR	Schedule-H	Water supply and Sanitary Fittings	97,83,478.24
15	NON SOR	Schedule-H1		1,54,229.40
16	SOR	Schedule-I	Road Works	84,10,589.59
17	NON SOR	Schedule-I (1)	Electrification Works	2,74,772.35
18	SOR	Schedule-J		1,09,91,112.92
19	NON SOR	Schedule-J1		2,22,43,528.21
20	SOR	Schedule-K	Any other item (for civil works) not covered by above shall be done under DSR-2021 (Excluding GST).	3,10,00,000.00
Total Estimate amount without GST (in Rs.)				27,04,38,361.17
Add: (-) 10.50% Below as quoted				-2,83,96,027.92
Total Quoted Value without GST (in Rs.)				24,20,42,333.25
Add. GST @18%				4,35,67,620.01
Total Contract Value with GST (in Rs.)				28,56,09,953.26

Reddy

Bill of Quantity

Estimate for Construction of Railway Staff Quarters, Station Building, platform & Passenger Platform Shelter as per approved plan including electrification, water supply, sanitary facilities and all other ancillary works required for the successful completion of the work facilities at Riyang Railway Station in connection with Sivok- Rangpo New BG Rail Line Project.

e-Tender No. : IRCON/2046/NFR-SRRP/Riyang Station/252 Date: 20.02.2023

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
Schedule-A						
	SOR (DSR 2021)	Earth Work				
1	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in charge.				
1.1	2.7.1	Ordinary rock	Cum	4940	408.06	20,15,816.40
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	4780	250.94	11,99,493.20
3	2.25(a)	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	Cum	5635	364.29	20,52,774.15
4	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
4.1	2.8.1	All kinds of soil	Cum	385.2	283.45	1,09,184.94
5	2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
5.1	2.9.1	Ordinary rock	Cum	256.8	517.3	1,32,842.64
5.2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	1010	2135.62	21,56,976.20
Sub Total Amount (Schedule-A)						76,67,087.53
Schedule-A1						
	NON SOR	Earth Work				
1	NON SOR	Dressing surface (average excavation or filling upto 1.5 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item	10 Sqm	910	163.92	1,49,167.20
2	NON SOR	Felling trees of girth (measured at a height of 1m above ground level) including lead and stacking of material within 100m. Note : 1. When stumps are grubbed up in addition, the rates shall be doubled for trees cut and grubbed 2. Payment for grubbing shall only be made where specially ordered. 3. Grubbing shall be ordered only where it is essential to remove the stumps, including the roots, as per specification. 4. Grubbing shall include removal of roots of trees and saplings to a depth of 60cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower.				
2.1	NON SOR	Girth over 30 cm and upto 60 cm	Each	25	270.24	6,756.00
2.2	NON SOR	Girth over 60 cm and upto 1.5m	Each	25	743.32	18,583.00
Sub Total Amount (Schedule-A1)						1,74,506.20

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
Schedule-B	SOR (DSR 2021)	Concrete Work				
1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
1.1	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	35	7691.52	2,69,203.20
1.2	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	1120	7277.97	81,51,326.40
1.3	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	560	6591.29	36,91,122.40
1.4	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	Cum	683	6251.17	42,69,549.11
2	4.20	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.		122.97		
2.1	4.20.2	All works above plinth and upto floor V level				
2.1.2	4.20.2.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	95	9891.02	9,39,646.90
3	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concretework, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
3.1	5.33.1.1	All works upto plinth level	Cum	755	7902.64	59,66,493.20
3.2	5.33.2.1	All works above plinth level upto floor V level	Cum	3205	9960.83	3,19,24,460.15
4	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20mm nominal size).	Sqm	320	446.9	1,43,008.00
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5.1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	2302	304.3	7,00,498.60
5.2	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	3873	757.48	29,33,720.04
5.3	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	5350	601.15	32,16,152.50
5.4	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	3610	794.73	28,68,975.30
5.5	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	4330	661.62	28,64,814.60
6	10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	330	183.75	60,637.50

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
7	USSOR-2010 / 172020	Supplying, erecting and fixing precast concrete reinforced bench with back res. 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. reinforced concrete planks in red colour and size of 1500 x 100 x 50mm and 1 no. reinforced concrete plank of 150 x 200 x 50mm; manufactured by using M-30 grade concrete & reinforced suitably; all parts to be joined with galvanised nuts and bolts of suitable size. All bolts to be sealed after assembly. Complete job to be done as per directions of Engineer In-Charge.	Each	20	14900.1	2,98,002.00
Sub Total Amount (Schedule-B) Rs.						6,82,97,609.90
Schedule-BI						
	NON SOR	Concrete Work				
1	NON SOR	Supply of steel reinforcement of various diameters and grade Fe500/Fe550 at sites including all transportation and freight charges and all taxes, duties etc. with contractors men, material, tools & plants, equipments, machineries, testing, all lead & lifts, loading, unloading as per special conditions of contract and as directed by Engineer-in-Charge etc. Complete.	MT	308.5	86278.75	2,66,16,994.38
2	NON SOR	A) Cutting, straightening, hooking, bending, placing and binding in position reinforcement steel for all RCC works or for temperature, shrinkage reinforcement whenever required as per approved drawings & specifications and as directed by Engineer-in-charge with contractors men, material, consumables, tools & plants, equipments, machineries, all lead & lifts, loading, unloading etc complete. The rate shall include cost of galvanised steel binding wire, handling, wastage etc. Note:- Payment for supply of reinforcement steel shall be paid as per approved drawing (excluding all wastages) separately under respective item	MT	308.5	7327.1	22,60,410.35
3	NON SOR	Supply and using Cement at Worksite				
3.1	NON SOR	Ordinary Portland Cement 43 grade	MT	35	6660.5	2,33,117.50
Sub Total Amount (Schedule-BI) Rs.						2,91,10,522.23
Schedule-C						
	SOR (DSR 2021)	Masonry Work				
1	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
1.1	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	514	8411.34	43,23,428.76
1.2	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	2570	8190.24	2,10,48,916.80
2		Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
2.1	6.12.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	50	827.93	41,396.50
3		Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
3.1	6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	100	1006	1,00,600.00
4	6.23	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).	sqm	150	638.3	95,745.00
5	16.94	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012, MoRTH clause 2500, of required size, Mesh Type 10x12 (D=100mm with tolerance of +/-2%) Zinc Coated, Mesh wire diameter 3.0 mm, mechanically edged/selvedged with partitions at every 1 m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2 mm, supplied @ 3% by weight of Gabion Boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-Charge.	Cum	220	3683.58	8,10,387.60
Sub Total Amount (Schedule-C) Rs.						2,64,20,474.66
Schedule-CI						
	NON SOR	Masonry Work				

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
1	NON SOR	Random rubble masonry, hammer dressed wherever necessary, in cement and sand 1:6 in wing wall, toe wall, breast wall, retaining wall, parapet wall, slope of guide bunds, catch water drains, side drains etc, as per drawing and as per technical specification prescribed in MoRTH including providing weep holes of 100mm dia. PVC pipe at 1.0m c/c horizontally and vertically, with contractors men, material, consumables, tools & plants, equipments, machineries, including all lead & lifts, loading, unloading, as directed by Engineer-in-Charge, etc complete.	Cum	165	3821.78	6,30,593.70
Sub Total Amount (Schedule-C1) Rs.						6,30,593.70
Schedule-D	SOR (DSR 2021)	Door and Window work				
1	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fastenings or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
1.1	9.1.1	Second class teak wood	Cum	8	130019.49	10,40,155.92
2	9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.				
2.1	9.5.1	Second class teak wood				
2.1.1	9.5.1.1	35 mm thick shutters	Sqm	420	3660.6	15,37,452.00
3	9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete				
3.1	9.62.1	300x16 mm	Each	220	178.41	39,250.20
4	9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete				
4.1	9.63.1	250x10 mm	Each	420	73.77	30,983.40
5	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete				
5.1	9.66.1	125 mm				
6	8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	Each	440	34.78	15,303.20
7	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners all necessary fittings complete, including applying a priming coat of approved steel primer.	10 Nos.	90	177.87	16,008.30
7.1	10.5.2	Using flats 30x6mm for diagonal braces and central cross piece	Sqm	50	4560.52	2,28,026.00
8	9.143	Providing and Fixing factory made uPVC door frame, made of uPVC extruded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fasteners, all complete as per manufacturer's specification and direction of Engineer-in-charge	Metre	290	539.14	1,56,350.60
9	9.131	Providing and fixing factory made shutters of Pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS:12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading allround the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).				

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
9.1	9.131.1	25 mm thick	Sqm	40	1540.6	61,624.00
10	9.13	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade D), of approved make, including 1/2 inch class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.				
10.1	9.130.1	With decorative veneering on one side and commercial veneering on other side	Sqm	530	1648.55	8,73,731.50
11	9.27	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :				
11.1	9.27.1	35 mm thick shutters				
11.1.1	9.27.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size				
11.1.1.1	9.27.1.1.1	Second class teak wood	sqm	170	4290.9	7,29,453.00
12	9.42	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	metre	590	505.49	2,98,239.10
13	9.122	Providing and fixing to existing door frames				
13.1	9.122.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames	Sqm	20	3455.36	69,107.20
14	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
14.1	21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/ sqm)	Sqm	705	1478.44	10,42,300.20
15	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
15.1	9.48.1	Fixed to steel windows by welding	kg	8630	178.86	15,43,561.80
16	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	70	9286.11	6,50,027.70
17	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	Kg	14500	91.95	13,33,275.00
Sub Total Amount (Schedule-D) Rs.						96,64,849.12
Schedule-D1	NON SOR	Door and Window work				
1	NON SOR	PVC DOOR WITH FRAME FOR TOILET	Each	70	2636.3	1,84,541.00
2	NON SOR	Providing 40x5mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15cm 1:3 :6 mix (1 cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	Each	520	97.99	50,954.80
Sub Total Amount (Schedule-D1) Rs.						2,35,495.80

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
Schedule-E	SOR (DSR 2021)	Steel Work				
1	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	2780	605	16,81,900.00
2	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
2.1	12.1.2	0.80 mm thick with zinc coating not less than 275 gm/m ²	Sqm	1870	1122.01	20,98,158.70
3	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	16710	91.95	15,36,484.50
4	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Mtr	475	300.06	1,42,528.50
5	12.5	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+/- 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	310	663.6	2,05,716.00
6	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+/-0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
6.1	12.51.6	Gutter (600mm over all girth)	metre	40	1097.45	43,898.00
7	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
7.1	12.41.2	110mm diameter	Mtr	50	315.97	15,798.50
8	13.50.4	Applying priming coat: With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	350	29.4	10,290.00
9	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
9.1	13.63.1	Two or more coats on new work	Sqm	350	120.01	42,003.50
10	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	11700	77.27	9,04,059.00
11	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	270	87.45	23,611.50
12	16.7	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.				
12.1	16.70.1	Made of G.I. wire of dia 4 mm	sqm	1300	849.33	11,04,129.00
Schedule-E1		Sub Total Schedule E (in Rs.)				
NON SOR						
1		Steel Work				
		Providing and fixing rolling shutters of approved make as per IS 6248, made of required size M.S. lathis interlocked together through their entire length and joined together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire spring grade No.2 and M.S. top cover of required thickness for rolling shutters				
1.1	NON SOR	80x1.20mm M.S.lathis with 1.20mm thick top cover	Sqm	25	1915.37	47,884.25
1.2	NON SOR	Providing and fixing ball bearing for rolling shutters	Each	4	706.38	2,825.52
		Sub Total Schedule E1 (in Rs.)				
Schedule-F						
SOR (DSR 2021)		Tiles & Flooring Work				
1	231031 of	Providing & laying each layer of flat brick solingh and packed & joints filled with ordinary sand				
1.1	USSOR-2010	With well burnt bricks Class 7.5 designation	Sqm	8160	275.71	22,49,793.60
2	7753	Stone Boulder 50 mm to 200 mm	Cum	1190	800.41	9,52,487.90
3	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
3.1	11.41.2	Size of Tile 600x600 mm	Sqm	3390	1399.88	47,45,593.20
4	11.41A.3	Glazed Vitrified tiles Mat/Antiskid finish of size				
4.1	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	390	1295.53	5,05,256.70
5	8.31	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	1650	1050.86	17,33,919.00
6	11.23	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :				
6.1	11.23.2	Raj Nagar plain	Sqm	390	1969.11	7,67,952.90

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
7	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	380	2014.42	7,65,479.60
8	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
8.1	11.26.1	25 mm thick	sqm	6240	1686.4	1,05,23,136.00
9	11.19	Chaquered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) :				
9.1	11.19.2	Medium shade pigment using 50% white cement, 50% ordinary cement	Sqm	840	1296.57	10,89,118.80
Sub Total Schedule F (in Rs.)						2,33,32,737.70
Tiles & Flooring Work						
1	NON SOR	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. 25mm thick with 12.5mm nominal size stone aggregate. NOTE: Payment for cement shall be paid extra.	Sqm	500	169.08	84,540.00
2	NON SOR	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% + 2, pH > 7) in a ratio of 2:1 (2 cement : 1 water proofing compound), followed by laying of fibre glass cloth; 2nd coat of cement slurry mixed with acrylic based polymer water proofing compound and a final coat of water proofing compound brush topping having water proofing compound, cement and c/sand @ 1:2:2 by weight. Complete job to be carried out as per specifications. NOTE: Payment for cement shall be paid extra.	Sqm	3100	222.17	6,88,727.00
Sub Total Schedule F1 (in Rs.)						7,73,267.00
Plastering and Painting						
1	SOR (DSR 2021)	6 mm cement plaster of mix				
1.1	13.16.1	1:3 (1 cement: 3 coarse sand)	Sqm	1880	250.05	4,70,094.00
2	13.4	12 mm cement plaster of mix				
2.1	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	14850	290.87	43,19,419.50
3	13.5	15 mm cement plaster of mix				
3.1	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	10920	335.09	36,59,182.80
4	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :				
4.1	13.7.2	1:4 (1 cement: 4 coarse sand)	sqm	89	357.02	31,774.78
5	13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	14280	122.38	17,47,586.40
6	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface				
6.1	13.43.1	Water thinnable cement primer				
7	13.44	Finishing walls with water proofing cement paint of required shade :	Sqm	13760	63.69	8,76,374.40

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
7.1	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	1522	96.44	14,67,816.80
8	13.41	Distemper with oil bound washable distemper of approved brand and manufacture to give an even shade :				
8.1	13.41.1	New work (two or more coats) over and including water thinable priming coat with cement primer	Sqm	3650	160.63	5,86,299.50
9	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50kg cement used in the mix	6	59.83	358.98
10	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	1250	54.84	68,550.00
11	13.50.4	Applying priming coat: With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	1250	29.4	36,750.00
12	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
12.1	13.63.1	Two or more coats on new work	Sqm	1250	120.01	1,50,012.50
Sub Total Amount (Schedule- G) Rs.						1,34,14,219.66
Schedule-H	SOR (DSR 2021)	Water supply and Sanitary Fittings				
1	18.48	Providing and placing on terrace (at all floor levels) polyethylene waterstorage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per litre	42000	9.59	4,02,780.00
2	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing offjoints complete as per direction of Engineer in Charge. (External Works)				
2.1	18.9.3	25 mm nominal outer dia Pipes	R/Mtr	330	366.26	1,20,865.80
2.2	18.9.4	32 mm nominal outer dia Pipes	R/Mtr	310	429.9	1,33,269.00
2.3	18.9.5	40 mm nominal outer dia Pipes	R/Mtr	310	552.58	1,71,299.80
2.4	18.9.6	50 mm nominal outer dia Pipes	R/Mtr	770	802.24	6,17,724.80
2.5	18.9.7	65 mm nominal dia Pipes	R/Mtr	770	1558.23	11,99,837.10
2.6	18.9.8	80 mm nominal dia Pipes	R/Mtr	770	1966.84	15,14,466.80
2.7	18.9.9	100 mm nominal dia Pipes	R/Mtr	770	2778.47	21,39,421.90
3	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i.e fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the walls etc.				
3.1	18.8.1	15 mm nominal dia Pipes	metre	500	435.93	2,17,965.00
3.2	18.8.2	20 mm nominal dia Pipes	metre	500	507.67	2,53,835.00
3.3	18.8.3	25 mm nominal dia Pipes	metre	880	618.64	5,44,403.20
3.4	18.8.4	32 mm nominal dia Pipes	metre	690	704.31	4,85,973.90
4	18.42	Boring with 100 mm diameter casing pipe for hand pump / tubewell,in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested :				
4.1	18.42.1	Up to 6 metres depth	metre	60	610.68	36,640.80
4.2	18.42.2	Beyond 6 m and up to 12 m depth	metre	60	722.3	43,338.00

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
4.3	18.42.3	Beyond 12 m and up to 18 m depth	metre	60	837.32	50,239.20
4.4	18.43	Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.	metre	30	803.62	24,108.60
5 (a)	18.44	Providing and fixing to filter and lowering to proper levels 40 mm G. I. pipe for tube well including cleaning and priming the tube well.	metre	150	493.88	74,082.00
5 (b)	18.45	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.	each	10	1164.7	11,647.00
6	7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	Each	40	3458.57	1,38,342.80
7	17.1	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required.				
7.1	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	35	5712.92	1,99,952.20
8	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required.				
8.1	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	40	5474.97	2,18,998.80
9	17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I. clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required.				
9.1	17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern	each	3	7660.83	22,982.49
10	17.4.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	20	5206.48	1,04,129.60
11	17.7.1	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	55	3352.69	1,84,397.95
12	18.15	Providing and fixing brass bib cock of approved quality				
12.1	18.15.1	15 mm nominal bore	Each	195	300.25	58,548.75
12.2	18.15.2	20 mm nominal bore	Each	55	324.07	17,823.85
13	17.35.1	Providing and fixing soil, waste and vent pipes : 100 mm dia				
13.1	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Mtr	200	1064.65	2,12,930.00
14	17.38.1	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete: 100 mm dia				
14.1	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	50	590.53	29,526.50
15	19.32.1	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. - With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	20	27697.37	5,53,947.40

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
		Sub Total (Schedule-G) Rs.				97,83,478.24
		Water supply and Sanitary Fittings				
Schedule-HI	NON SOR	100 MM PVC PIPE FOR SANITARY WORK	R/Mtr	585	263.64	1,54,229.40
		Sub Total (Schedule-HI) Rs.				1,54,229.40
		Road Works				
Schedule-I	SOR (DSR 2021)					
1	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Sqm	2200	178.36	3,92,392.00
2	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
2.1	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	Cum	330	2626.64	8,66,791.20
3	16.3	Supplying and stacking at site.				
3.1	16.3.1	90 mm to 45 mm size stone aggregate for G-I	Cum	120	1914.66	2,29,759.20
3.2	16.3.2	63 mm to 45 mm size stone aggregate for WBM G-II	Cum	120	1605.27	1,92,632.40
3.3	16.3.3	53 mm to 22.4 mm size stone aggregate for WBM G-III	Cum	120	1815.5	2,17,860.00
3.4	16.3.6	Stone screening 13.2 mm nominal size (Type A) for WBM G-I & G-II	Cum	90	1842.92	1,65,862.80
3.5	16.3.7	Stone screening 11.2 mm nominal size (Type B) for G-III	Cum	50	2041.25	1,02,062.50
4	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density	Cum	350	855.55	2,99,442.50
5	16.3	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
5.1	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	1550	44.66	69,223.00
5.2	16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	1550	36.17	56,063.50
6	16.34	2 cm thick premix carpet surfacing with 2.4 cum of stone chippings 11.2mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen content) complying with IS : 8887, using 96 kg per cum of chippings, including consolidation with road roller of 6 to 9 tonne capacity etc. complete.	Sqm	1550	168.19	2,60,694.50
7	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precasted fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
7.1	16.37.1	25 mm thick	Sqm	1550	718.35	11,13,442.50

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
8	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately.	cum	453.75	9380.53	42,56,415.49
9	16.68	Cement concrete prepared with batch mixing machine Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	200	939.74	1,87,948.00
Sub Total (Schedule-I) Rs.						84,10,589.59
Schedule-I(I)	NON SOR	Road Works				
1	NON SOR	Supplying and laying reinforced cement concrete pipes NP2 of various sizes, for culvert on cement concrete leveling course including fixing collar with cement mortar 1:2 as per the drawing and as per specification prescribed in MoRTH, with contractors men, material, consumables, tools & plants, equipments, machineries, all lead & lifts, loading, unloading as directed by Engineer-in - charge etc complete. The rate includes cost of Pipes, hauling, storing, laying in position, aligning, joining complete and all incidental costs to complete the work as per specification. (Ancillary works such as excavation with back filling, leveling course, concrete and masonry shall be paid separately in relevant schedule items)				
1.1	NON SOR	600 mm dia	R/Mtr	30	3499.52	1,04,985.60
1.2	NON SOR	900 mm dia	R/Mtr	25	6791.47	1,69,786.75
Sub Total (Schedule-I (I)) Rs.						2,74,772.35
Schedule-J	SOR (DSR 2018)	Electrification Works				
1		Wiring for light point/fan point / exhaust fan point/call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm FRLS PVC insulated single core cable as required.				
1.1	1.10.3	Group C	Point	1044	1084.7	11,32,426.80
2	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	24	1158.11	27,794.64
3		Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
3.1	1.7.2	2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire	Metre	4096	250.91	10,27,727.36
3.2	1.7.3	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Metre	4472	288.16	12,88,651.52
3.3	1.7.5	2 x 10 sq. mm +1 x 6 sq. mm earth wire	Metre	980	466.75	4,57,415.00
3.4	1.7.9	4 x 6 sq.mm. + 2 x 6 sq.mm. earth wire	Metre	450	579.6	2,60,820.00
3.5	1.7.10	4 x 10 sq.mm. + 2 x 6 sq.mm. earth wire	Metre	250	734.09	1,83,522.50
3.6	1.7.11	4 x 16 sq.mm. + 2 x 6 sq.mm. earth wire	Metre	150	1036.49	1,55,473.50
4		Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
4.1	1.24.1	5/6 A switch	Each	500	93.13	46,565.00
4.2	1.24.4	5/6 A socket outlet	Each	500	121.62	60,810.00
4.3	1.24.3	15/16 A switch	Each	900	144.63	1,30,167.00
4.4	1.24.5	6 pin 15/16 A socket outlet	Each	900	191.74	1,72,566.00
5		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/HUME/METAL pipe as required.				
5.1	7.5.2	Above 35 sq. mm and upto 95 sq. mm	Metre	3500	51.5	1,80,250.00
6		CABLE END TERMINATION Supply and making End termination with brass compression Gland and Al. lugs for the following size of PVC insulated and PVC shielded/ XLPE Aluminum/ Copper conductor armoured/ unarmoured Power cables/ wires of 1.1 KV grade as required.				
6.1	9.1.2	2 X 10 sq. mm	Each	20	216.94	4,338.80
6.2	9.1.32	4 X 10 sq. mm	Each	10	239.95	2,399.50
6.3	9.1.33	4 X 16 sq. mm	Each	150	273.91	41,086.50
6.4	9.1.35	4 X 35 sq. mm	Each	50	330.89	16,544.50
6.5	9.1.12	4 X 70 sq. mm	Each	10	371.43	3,714.30
6.6	9.1.14	4 X 120 sq. mm	Each	8	525.92	4,207.36
6.7	9.1.15	4 X 150 sq. mm	Each	8	597.13	4,777.04
6.8	9.1.16	4 X 185 sq. mm	Each	6	757.1	4,542.60
7		Providing, laying and fixing following dia G.I. pipe (medium class) in ground or as per site requirement complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required				
7.1	14.13.1	50 mm dia	Mtr	500	587.27	2,93,635.00
7.2	14.13.3	100 mm dia	Mtr	200	1219.47	2,43,894.00
7.3	14.13.4	150 mm dia	Mtr	100	1848.38	1,84,838.00
8	7.10	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	150	419.64	62,946.00
9	DSR-2018	Any other items as per N.F. Railway standard Schedule of rates (DSR 2018) not covered in this schedule- J.				50,00,000.00
Sub Total of Sub-schedule J (in Rs.)						1,09,91,112.92
Schedule-JI	NON SOR	Electrification Works				
		Sub-schedule - J1 - (POINT WIRING & SUBMAIN)				
1	NON SOR	Design of internal and external electrification of Station building, FOB, platform and platform shelter shed, Staff quarters by Preparation of Single Line Diagram detailing protection, control, metering system, lightning. Panels and it should contain all the details rating of equipment. This item also include the submission of as built drawing of all design drawing	JOB	1	308000	3,08,000.00

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
2	NON SOR	Wiring for light point/fan point / exhaust fan point/call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm FRLS PVC insulated single core cable as required.				
2.1	NON SOR	Group C	Point	15	1216.77	18,251.55
3	NON SOR	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.				
3.1	NON SOR	2 x 1.5 sq.mm. + 1 x 1.5 sq.mm earth wire	Meter	120	208.63	25,035.60
3.2	NON SOR	2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire	Meter	150	229.7	34,455.00
4	NON SOR	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
4.1	NON SOR	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	195	343.06	66,896.70
5	NON SOR	Supplying and fixing of following sizes of steel conduit alongwith accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
5.1	NON SOR	20 mm	Meter	600	146.45	87,870.00
5.2	NON SOR	40 mm	Meter	300	256.82	77,046.00
		DISTRIBUTION BOARD				
6	NON SOR	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with timed copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).				
6.1	NON SOR	8Way ,Double door	Each	5	2624.88	13,124.40
6.2	NON SOR	16Way ,Double door	Each	52	3949.33	2,05,365.16
7	NON SOR	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with timed copper bus bar, neutralbus bar, earth bar, din bar, interconnections, powder paintedincluding earthing etc. as required. (But without MCB/RCCB/Isolator/MCCB)				
7.1	NON SOR	4Way TPN ,(4+12), Double door	Each	10	3077.51	30,775.10
8	NON SOR	Supplying and fixing 5amps to 32 amps rating, 240/ 415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
8.1	NON SOR	Single Pole	Each	830	199.62	1,65,684.60
8.2	NON SOR	Double Pole	Each	57	557.72	31,790.04
8.3	NON SOR	Four Pole	Each	5	960.44	4,802.20
		EARTHING				
9	NON SOR	Supply & crection and commissioning of maintenance free earth pit with 3.0 m, 50 mm dia electrode with outer part of GI pipe, along with backfill compound as required to achieve low earth value as per RDSO specification (rates is inclusive of complete job)	Set	46	16773.92	7,71,600.32
		L.V CABLES LAYING				
10	NON SOR	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
10.1	NON SOR	Upto 35 sq. mm	Metre	5000	31.1	1,55,500.00
10.2	NON SOR	Above 95 sq. mm and upto 185 sq. mm	Metre	1500	64.2	96,300.00
11	NON SOR	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
11.1	NON SOR	Upto 35 sq. mm (clamped with 1mm thick saddle) Supplying and installing of following size of Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from ceiling with GI suspenders including GI bolts & nuts etc as required. :150 mm width X 50 mm depth 1.6 mm thickness	Metre	500	33.09	16,545.00
11.2	NON SOR		Metre	300	645.99	1,93,797.00
12.1	NON SOR	Supplying and installing of following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from ceiling with GI suspenders including GI bolts & nuts etc as required. :150 mm width X 50 mm depth 1.6 mm thickness	Each	25	1171.62	29,290.50
12.2	NON SOR	Supplying and installing of following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, suspended from ceiling with GI suspenders including GI bolts & nuts etc as required. :150 mm width X 50 mm depth 1.6 mm thickness	Each	15	1277.95	19,169.25
13	NON SOR	CABLE END TERMINATION Providing and fixing M.V. danger notice plate of 200mm x 150mm, made of mild steel, at least 2mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	8	226.71	1,813.68
14	NON SOR	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
14.1	NON SOR	40 A	Each	5	4357.93	21,789.65
14.2	NON SOR	63 A	Each	10	5208	52,080.00
15	NON SOR	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required				
15.1	NON SOR	1 or 2 Module (75mmX75mm)	Each	477	238.15	1,13,597.55
15.2	NON SOR	3 Module (100mmX75mm)	Each	464	234.84	1,08,965.76
15.3	NON SOR	6 Module (200mmX75mm)	Each	174	292.89	50,962.86
15.4	NON SOR	12 Module (200mmX150mm)	Each	10	381.72	3,817.20
16	NON SOR	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required	Each	750	57.17	42,877.50
17	NON SOR	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	120	28.14	3,376.80
18	NON SOR	MCB/MCCB Supplying and fixing of following rating MCB/MCCB in the existing MCB DB complete with connections, testing and commissioning as required.				
18.1	NON SOR	40 A, 10KA DP MCB	Nos.	40	915.46	36,618.40
18.2	NON SOR	40 amps, 10kA TPN MCB	Nos.	10	1763.58	17,635.80
18.3	NON SOR	63 amps, 10kA TPN MCB	Nos.	15	1807.53	27,112.95
19	NON SOR	LT CABLE Supply following sizes of Aluminium conductor XLPE insulated FRLS inner and outer sheathed, 1.1kV power distribution cables with confirming to IS:7098 (Part-1)				
19.1	NON SOR	2C x 10 sq.mm Al. Armoured	Metre	1000	283.36	2,83,360.00
19.2	NON SOR	4C x 10 sq.mm Al. Armoured	Metre	1000	365.62	3,65,620.00
19.3	NON SOR	4C x 16 sq.mm Al. Armoured	Metre	4000	429.28	17,17,120.00

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
19.4	NON SOR	4X35Sqmm Al. Armoured	Metre	2500	717.67	17,94,175.00
19.5	NON SOR	4X70 Sqmm Al. Armoured	Metre	1000	1198.65	11,98,650.00
19.6	NON SOR	4X120 Sqmm Al. Armoured	Metre	500	1810.44	9,05,220.00
19.7	NON SOR	4X150Sqmm Al. Armoured	Metre	500	2190.6	10,95,300.00
19.8	NON SOR	4X185 Sqmm Al. Armoured	Metre	500	2753.57	13,76,785.00
	NON SOR	LIGHT FIXTURES AND FAN				
20	NON SOR	Supplying, Installation, Testing & commissioning of lighting fixtures as detailed below of all types, complete with all accessories and tube etc. directly on ceiling/ wall, recessed, suspended including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.				
20.1	NON SOR	Supply, Installation, Testing & Commissioning of 2X22 W, 4ft surface mounted made of CRCA sheet box type LED fixture along with 2X20 W T8 LED tube similar to Havells Cat - PHOTONULTRAE2.01213T8SSTL20WLED865SPC and REGALBATTENT 8UPTO1X22WSSBSWH-	Nos.	30	1802	54,060.00
20.2	NON SOR	Supply, Installation, Testing & Commissioning of 1X12W surface mounted LED light fixtures similar to Havells Cat - LHEAAHP7IL1W012 or equivalent.	Nos.	10	1465.29	14,652.90
20.3	NON SOR	Supply, Installation, Testing & Commissioning of 10W LED bulk head light similar to Havells Cat - RUGBYGENXFTS10WLED865SSYMBOPC or equivalent.	Nos.	49	2021.66	99,061.34
20.4	NON SOR	Supply, Installation, Testing & Commissioning of 1X10 W, 2ft linear surface mounted LED fixture suitable for mirror light application similar to Havells Cat - LUMILINE+BS10WLED865PCSS or equivalent.	Nos.	15	653.63	9,804.45
20.5	NON SOR	Supply, Installation, Testing & Commissioning of 1X80 W Highbay fitting similar to Havells Cat - SAUCERGENXHP80WLED75P90DBOLTGXTFCL or equivalent	Nos.	20	10794.68	2,15,893.60
20.6	NON SOR	Supply, Installation, Testing & Commissioning of 1X36W, 2X2 recess mounted LED light fixture similar to Havells Cat - VENUSNEO2X2PLR36WLED857STTR or equivalent.	Nos.	24	5132.71	1,23,185.04
20.7	NON SOR	Supply, Installation, Testing & Commissioning of 1X40 W, 4ft linear surface mounted IP65 LED fixture similar to Havells Cat - MAGNUMGRANDNEOIP6640WLED857SPC	Nos.	30	4493.11	1,34,793.30
20.8	NON SOR	Supply, Installation, Testing & Commissioning of 1X6 W Surface mounted LED light fixtures similar to Havells Cat - LHEAAHP7IL1W006 or equivalent.	Nos.	25	727.38	18,184.50
20.9	NON SOR	Supply, Installation, Testing & Commissioning of 1X20 W, 4ft surface mounted made of CRCA sheet box type LED fixture along with 1X20 W T8 LED tube similar to Havells Cat - PHOTONULTRAE2.01213T8SSTL20WLED865SPC and REGALBATTENT 8UPTO1X22WSSBSWH	Nos.	190	1138.5	2,16,315.00
20.10	NON SOR	Supply, fixing, testing and commissioning of 9W LED Bulb including Bulb holder with metallic strip	Nos.	149	234.03	34,870.47
21	NON SOR	Supply, fitting, connection and testing of outdoor type luminaire 100 watt LED integral type Flood light in die cast aluminium spigot housing with IP 66 protection complete with opal acrylic diffuser constant current electronic driver of 140-280 volt AC and high voltage, open & short circuit protection and all other accessories, connection cable of required length similar to Havells Cat - JETALBAFLOODLIGHT100W or equivalent	Nos.	15	5692.5	85,387.50
22	NON SOR	Supply, fitting, connection and testing of outdoor type luminaire 45 watt LED integral type street light in die cast aluminium spigot housing with IP 66 protection complete with opal acrylic diffuser constant current electronic driver of 140-280 volt AC and high voltage, open & short circuit protection and all other accessories, connection cable of required length etc	Nos.	140	4427.5	6,19,850.00
23	NON SOR	Supply, Installation, testing and commissioning of 1200 mm (Five Star) ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Nos.	195	1975.85	3,85,290.75

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
24	NON SOR	Supplying assembling and fixing of the Heavy duty Exhaust Fan 300 mm sweep 1400rpm including making the hole to suit the size of fan, making good the damage, connection, testing, commissioning etc. as required.	Nos.	92	2495.75	2,29,609.00
25	NON SOR	Supply, Installation, testing and commissioning of 16" Wall Bracket Fan	Nos.	20	2455.36	49,107.20
		HIGH MAST & STREET LIGHT POLES				
26	NON SOR	Supply, Installation, Testing and Commissioning of 16M high mast shaft in two section suitable for local wind speed permissible as per IS:875 along with head frame, luminaires carriage suitable for 08 luminaires (Each LED fitting of minimum 20000 lumens, IP66) in symmetrical arrangement and other accessories manufactured in factory. Including raising lowering system comprising double drum winch, 5mm diameter SS wire rope, trailing cable, connector, integral power tool motor, manual handle, junction box, lightning finial. (Wiring material from JB to individual luminaire Included) and with foundation bolts manufactured from special steel along with nuts, washers, anchor plate and common template including RCC foundation along the provision of cable entry also with LED type single dome aviation obstruction light.	Set	5	372285.81	18,61,429.05
27	NON SOR	Supply, Installation, Testing and Commissioning of 5 mtr high hot dip galvanised octagonal poles with 130mm bottom A/F & 70mm top A/F made up of 3mm thk. HT sheet alongwith base plate of size 200X200X12mm thick including 4Nos. of M16X450 long 'J' type EN 8 grade foundation bolts along with template. (Without Bracket)	Nos.	80	10140.13	8,11,210.40
28	NON SOR	Supply, Installation, Testing and Commissioning of 7mtr high hot dip galvanised octagonal poles with 130mm bottom A/F & 70mm top A/F made up of 3mm thk. HT sheet alongwith base plate of size 200X200X12mm thk. (Without Bracket)	Nos.	25	11628.79	2,90,719.75
29	NON SOR	Supply, Installation, Testing and Commissioning of 1mtr long hot dip galvanised Single arm special bracket (Model: Type-5) cross arm made up of GI pipe suitable to mount on pole having top 70mm A/F. Model: Type 5	Nos.	80	3248.21	2,59,856.80
30	NON SOR	Supply, Installation, Testing and Commissioning of 1mtr long hot dip galvanised double arm special bracket (Model: Type-5) cross arm made up of GI pipe suitable to mount on pole having top 70mm A/F. Model: Type 6	Nos.	40	4067.77	1,62,710.80
31	NON SOR	Supply, installation, testing & commissioning of integrated solar street light with 5 mtr long GI pole, 30W LED having system efficacy on min 100 lumen per watt, integrated with LiFePo4 battery, MPPT charge controller, solar PV module (50W), 2 days autonomy, auto ON/OFF, dusk to dawn operation, sensor switch for auto dimming complete with all accessories conforming to MNRE specification .	Nos.	25	74635	18,65,875.00

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Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
32	NON SOR	Supply, installation, testing & commissioning of External Lighting Panels double door, compartmentalised & slanting roof (300mm extended) ,suitable for 3 phase, 4 wire, 415Volt, 50Hz, AC supply, totally enclosed free standing , weather and vermin proof outdoor type fabricated from 14 SWG CRCA sheet steel with aluminium busbars ,earth bus, locking arrangement, cable alley, gland plate complete as required including associated civil works like excavation, brick work,plaster etc and including providing of additional busbar box (if required) for termination of cables, and providing & fixing below noted accessories and with following incoming & outgoing. Panel should be made as per CPRI guideline and approval shall be taken for each panel before manufacturing. Incomer: 1No 200A, 25KA 4P MCCB with Thermal Magnetic Release. 01No Digital VAF Meter 01Set R, Y, B Phase Indicating Lamps with 2A Control MCB CT's 200/5A Class-1.0 15VA BUS BAR 250A TPN 415V 50Hz ALUMINIUM BUS BAR Outgoings: 03 Nos. 125 A 25KA 4P MCCB with Thermal magnetic Trip 02 Nos. 63 A 10KA SPN MCB 02Nos. 40A 10KA SPN MCB	Nos.	3	94562.93	2,83,688.79
33	NON SOR	Supplying and fixing of non-skid rubber mat of 11 kV dielectric strength of width 900 mm ISI approved as required including cutting to required lengths.	Metre	4	935.09	3,740.36
34	NON SOR	Supplying and fixing of non-skid rubber mat of 1.1 kV dielectric strength of width 900 mm ISI approved as required including cutting to required lengths.	Metre	8	1402.73	11,221.84
35	NON SOR	Supplying and fixing of shock treatment chart written in English and Hindi duly framed in glass as required.	Each	3	935.09	2,805.27
36	NON SOR	Supplying and fixing of first aid box as approved complete with standard kit as prescribed by Indian Red Cross.	Each	2	1870.18	3,740.36
37	NON SOR	Supply of Hand gloves made out of rubber suitable for 11 KV grade as required.	Pairs	4	1402.64	5,610.56
38	NON SOR	Supplying and fixing of a set of four nos. of fire bucket painted red and duly filled with sand conforming to IS: 2546-1974 complete with MS stand suitable for supporting four buckets (Pedestal type)	Each	5	935.09	4,675.45
39	NON SOR	Supplying and fixing of 4.5 kgs. Capacity carbon dioxide type fire extinguisher of ISI approved make with wall mounting bracket as required conforming to IS 2878/1976.	Each	6	4675.46	28,052.76
40	NON SOR	Supply & fixing of HDPE pipe of 50/63mm outer dia with 6 kgf/cm ² working pressure conforming to IS: 4984/1995, clamped with pole/bracing by 50x5mm MS flat clamp with MA bolts & nuts of size 50x12 mm as per direction at site for protection of cable	Mtr	6000	209.37	12,56,220.00
41	NON SOR	Supply & fixing of HDPE pipe of 110 mm outer dia with 6 kgf/cm ² working pressure conforming to IS: 4984/1995, clamped with pole/bracing by 50x5mm MS flat clamp with MA bolts & nuts of size 50x12 mm as per direction at site for protection of cable	Mtr	1000	658.38	6,58,380.00
42	NON SOR	Supply, erection, testing & commissioning of ding dong type calling Bell including all fitting items	Each	37	335	12,395.00
43	NON SOR	Supply, erection, testing and commissioning of 2.0 TR Heating cum air conditioning device, inverter technology, 5 star rating complete including pipe and all fitting and stabilizer etc. complete in all respect.	Each	8	79482.71	6,35,861.68
44	NON SOR	Supply installation, testing & commissioning of Gysar 15 lts capacity, 05 star rated ,vertical storage type complete with all accessories by grouting MS angle/ MS flat with suitable size washer, bolts & nuts etc on wall as per instruction of engineer in charge at site	Nos.	18	10267.86	1,84,821.48

Sl.No.	Item Rate Ref	Description of work	Unit	Quantity	BoQ Rate (Rs.)	Amount (Rs.)
45	NON SOR	Supply, installation, testing & commissioning of 7.5 H.P. submersible pump motor set with 5 star rating directly coupled through sleeve coupling with water cooled and water lubricated submersible motor suitable for 3 phase, 415V, +/-10%-15%, 50HZ +/-3% in cast iron stage bowl. Pump set shall be fitted with bronze impeller and shaft of chrome steel. Pump shall be fitted with bronze impeller and shaft of chrome steel. Pump shall be fitted with tilting pad type thrust bearing segment complete with 3 mtr flat cable. The motor starter body should be made of stainless steel with following specification:- Discharge-420 LPM, Head-35-105 mtr: starting-star/delta(415 v, 3 phase), 50mm outlet stage-9	Set	1	42271.24	42,271.24
Sub Total of Sub-schedule J1 (in Rs.)						2,22,43,528.21
Schedule-K	SOR (DSR 2021)	Any other item (for civil works) not covered by above shall be done under DSR-2021 (Excluding GST).				3,10,00,000.00
Total Estimate amount without GST (in Rs.)						27,04,38,361.17
Add: (-) 10.50% Below as quoted						-2,83,96,027.92
Total Quoted Value without GST (in Rs.)						24,20,42,333.25
Add. GST @ 18%						4,35,67,620.01
Total Contract Value with GST (in Rs.)						28,56,09,953.26

Prasenjit

Signature Not Verified

Digitally signed by PRASENJIT
PURKAYASTHA
Date: 2023.04.20 16:26:26 IST
Location: eProcurement System for
Central PSUs