



Notification of Award

Letter of Acceptance

No. MRVC-W-117-A-1/LOA

Date.21.06.2024

To,

M/s Kiran-Pravesh JV

M/s Kiran Infra Engineers Ltd. In JV with M/s Parvesh Construction.

B-141, Road No 9D,

VKI Area, Jaipur-302013,

Phone- 0141-2330305

E-mail: contact@kiraninfra.com

Kind Attention: Sh. Kishore Sharma, Director-Kiran Infra.

Contract Title: - “Design, Supply, Installation, Testing and Commissioning of Indoor equipments/gears for Signalling works in connection with Virar (VR)-Dahanu Road (DRD) quadrupling project in Mumbai Suburban (MUTP-III)”

IFT No: - MRVC-W-117-A-1 dtd: 15-02-2024.

Project: Mumbai Urban Transport Project -III (MUTP-III).

Duration of Contract: 36 Months

Ref: Your Tender offer dated 03.04.2024

This is to notify that, your tender dated 03.04.2024 for execution of “Design, Supply, Installation, Testing and Commissioning of Indoor equipments/gears for Signalling works in connection with Virar (VR)-Dahanu Road (DRD) quadrupling project in Mumbai Suburban (MUTP-III)” is hereby accepted for the amount of **INR 1,86,07,18,574.64/-** (Including GST @18%) (Rupees One Hundred Eighty Six Crore Seven Lakh Eighteen Thousand Five Hundred Seventy Four point six four only).

1. In terms of Clause No. 13. Of GCC/SCC, you are requested to furnish Performance security in the form of demand guarantee in the amounts of 10% of accepted contract value, amounting to INR 18.61/-Cr (INR Eighteen Crore Sixty-One Lakhs) within 28 days of the issue of Letter of Acceptance (LOA). The performance security shall be valid for 12 months from the date of completion period of contract, as per the Performance Security Form in Section IX of contract forms. The performance security of a Joint Venture



मुंबई रेलवे विकास कॉर्पोरेशन लिमिटेड
भारत सरकार, रेल मंत्रालय का एक सार्वजनिक उपक्रम
MUMBAI RAILWAY VIKAS CORPORATION LTD.
(A PSU of Government of India, Ministry of Railways)

shall be in the name of the Joint Venture specifying the names of all members. Extension of time for submission of Performance Security beyond 28 (Twenty-Eight) days and up to 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. Further, if the 60th day happens to be a declared holiday in the concerned office of the Employer, submission of Performance Security can be accepted on the next working day.

In all other cases, if the Contractor fails to submit the requisite Performance Security even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated, employer shall be entitled to forfeit Tender Security and other dues payable against that contract.

The failed Contractor shall be debarred from participating in re-tender for that work.

2. In terms of Clause No. 34 of GCC/SCC and appendix 3 Section IX, you are requested to furnish Insurance cover.
3. The employer proposes the name of Sh. A K Mittal, Retired Member Engineering, Railway Board be appointed as Adjudicator under this contract and the same has been accepted by the tenderer.
4. Proposed key Personnel and Contractors Representative for EQC 2.6 is deliberated as below:

Position- Experience/No of persons	Qualification	Observation
Quality Control Engineer- 1 No. Minimum 03 years for B.E./ B.Tech, and 05 years for Diploma Holder experience of working as Quality Control Engineer.	B.E./B. Tech Or Diploma in Electronics/Electrical/Instrumentation Engineering	Sh. Srinivasan KR, Diploma in ECE Total 10 years' experience was proposed. Clarification regarding minimum period of 03 years' experience as Quality Control Engineer need submitted, or suitable replacement to be proposed before signing of contract.



Position- Experience/No of persons	Qualification	Observation
Environment, Health, and Safety Engineer-1No. Minimum 03 Years as Environment, Health and Safety Engineer	Graduate in Civil or Environmental Engineering with preference in specialization and/or additional qualification in Occupational Health and Safety.	Sh. Abhishek Kumar, Diploma in Industrial Safety Civil, 12 years' experience. The proposed person does not meet the educational qualification requirement. Suitable replacement to be proposed and submitted before signing of contract.

5. Future rate reference restriction:

The rates for supply and execution of EI system (comprising of scheduled items code A.1.i to A.1.xvii, A.2.i, A.2.ii, A.3, A.4, A.5, A.6 and B.75, B.76, B.77, B.78, B.79) shall not be taken into considerations for future references for estimation and tendering as LARs.

6. The completion period of the work is 36 (Thirty-Six) calendar months from the effective date described in the Contract Agreement.

7. Accepted Price Schedule/ Bill of Quantities (BOQ)- Annexure -I.

On behalf of the Employer:

Signature: **DINESH KUMAR VASHISHTHA**
Digitally signed by DINESH KUMAR VASHISHTHA
Date: 2024.06.21 13:48:20 +05'30'

Name: Dinesh Kumar Vashishtha

Title/position: Chief Signal and Telecommunication Engineer (CSTE)

Mumbai Railway Vikas Corporation Ltd.

Email: cste@mrvcl.gov.in

Annuxure-1: Accepted Price Schedule/ Bill of Quantities (BOQ)-

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	Schedule A (Indoor Supply Items)								
	Electronic Interlocking (EI) System								
1	Design, manufacture and supply of Hot Standby Architecture Electronic Interlocking (EI) system complete as per specifications mentioned in chapter-VII of SECTION-VI along with Interface Equipments, Relays, cabinets, racks, wires and wiring material etc. as per requirements.						RDSO	7.2.1	Electronics
(i)	Relay hut No.1 EI - 342 Vital Bits	A.1.i	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(ii)	Relay hut No.2 EI - 342 Vital Bits	A.1.ii	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(iii)	Relay hut No.3 EI - 342 Vital Bits	A.1.iii	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(iv)	Relay hut No.4 EI - 342 Vital Bits	A.1.iv	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(v)	Relay hut No.5 EI - 342 Vital Bits	A.1.v	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(vi)	Relay hut No.6 EI - 342 Vital Bits	A.1.vi	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
(vii)	Relay hut No.7 EI - 342 Vital Bits	A.1.vii	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(viii)	Relay hut No.8 EI - 342 Vital Bits	A.1.viii	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(ix)	Relay hut No.9 EI - 342 Vital Bits	A.1.ix	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(x)	Relay hut No.10 EI - 342 Vital Bits	A.1.x	342	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,57,32,000.00			
(xi)	Vaitarna EI - 157 Vital Bits	A.1.xi	157	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	72,22,000.00			
(xii)	Saphale EI - 471 Vital Bits	A.1.xii	471	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	2,16,66,000.00			
(xiii)	Kelve-247 Vital Bits	A.1.xiii	247	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,13,62,000.00			
(xiv)	Umroli EI - 144 Vital Bits	A.1.xiv	144	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	66,24,000.00			
(xv)	Boisar-622 Vital Bits	A.1.xv	622	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	2,86,12,000.00			
(xvi)	Vangoan-285 Vital Bits	A.1.xvi	285	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	1,31,10,000.00			
(xvii)	Palghar -623 Vital Bits	A.1.xvii	623	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	2,86,58,000.00			
2	Design, manufacture and supply of Hot Standby Architecture Electronic Interlocking (EI) system complete as per specifications mentioned in chapter-VII of SECTION-VI						RDSO	7.2.1	Electronics

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	along with Interface Equipments, Relays, cabinets, racks, wires and wiring material etc. as per requirements.								
(i)	For Station with routes more than 100 for Virar with OCS-1000 Vital Bits	A.2.i	1000	PER VITAL BIT	34,100.00 <i>(Rate banned for future LARs)</i>	3,41,00,000.00			
(ii)	For Station with routes more than 100 for Dahanu Road with OCS-941 Vital Bits	A.2.ii	941	PER VITAL BIT	46,000.00 <i>(Rate banned for future LARs)</i>	4,32,86,000.00			
3	Workstation for Data input & configuration with necessary software/ programs / Accessories, simulation and functional testing, diagnostics and trouble shooting and commissioning of EI system. A suitable table and chair of reputed make (Godrej/Jalaram) shall be supplied by the contractor as per specifications mentioned in chapter-VII of SECTION-VI.	A.3	19	System	1,50,000.00 <i>(Rate banned for future LARs)</i>	28,50,000.00	Consignee		Electronics
4	Supply of documents for both Phase-I and Phase-II as per specifications mentioned in chapter-VII of SECTION-VI.	A.4	19	No	2,00,000.00 <i>(Rate banned for future LARs)</i>	38,00,000.00	Consignee	7.2.1	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
5	Supply of Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for EI as per specifications mentioned in chapter-VII of SECTION-VI.	A.5	19	Set	2,00,000.00 <i>(Rate banned for future LARs)</i>	38,00,000.00	Consignee	7.2.1	Others
6	Earthing of EI equipment, relay racks and Power equipment etc. to be done along with the supply of all requisite materials. Earthing shall be in the form of Ring Earth conforming to RDSO specification No. RDSO/SPN/197/2008 (with a min. of 6 maintenance free earth electrodes) as per specifications mentioned in chapter-VII of SECTION-VI.	A.6	19	Job	10,00,000.00 <i>(Rate banned for future LARs)</i>	1,90,00,000.00	RDSO	7.3.24	Others
	Dataloggers								
7	Data logger system for Railway S&T installation as per specifications mentioned in chapter-VII of SECTION-VI.						RDSO	7.2.8.1	Electronics
i	4096 digital and 32 analog inputs	A.7.i	1	No	16,00,000.00	16,00,000.00	RDSO	7.2.8.1	Electronics
ii	2048 digital and 32 analog inputs	A.7.ii	4	No	12,00,000.00	48,00,000.00	RDSO	7.2.8.1	Electronics

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
iii	1024 digital and 32 analog inputs.	A.7.iii	14	No	7,00,000.00	98,00,000.00	RDSO	7.2.8.1	Electronics
8	Multi-Port Front End Processor to suit the data logger systems.	A.8	2	Set	3,00,000.00	6,00,000.00	RDSO	7.2.8.1	Electronics
9	Provision of T-Networking suitable for Networking to the existing Data Logger Equipments. This includes supply of all equipment / access as per specifications mentioned in chapter-VII of SECTION-VI series required for the purpose	A.9	19	Set	80,000.00	15,20,000.00	RITES	7.2.8.1	Electronics
10	Failure Analysis & Fault Diagnostic software for data logger of 1024/2048 / 4096 digital inputs as per specifications mentioned in chapter-VII of SECTION-VI	A.10	19	No	3,00,000.00	57,00,000.00	RITES	7.2.8.2 7.2.8.3 7.2.8.5	Others
11	750VA OFFLINE UPS as per specifications mentioned in chapter-VII of SECTION-VI	A.11	19	No	35,000.00	6,65,000.00	RITES	7.2.8.4	Others
	CT Racks and other indoor material								
12	Cable termination racks as per specifications mentioned in chapter-VII of SECTION-VI	A.12	68	No	35,000.00	23,80,000.00	RITES	7.2.3	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
13	Relay racks assembly complete with scaffolding bus bars, fuse strips, fuses, resistors, capacitors, insulators, grouting bolts, tripods etc. as per specifications mentioned in chapter-VII of SECTION-VI. [Scaffolding should include 20% extra (with minimum of 2 relay rack positions) as spare for future expansion]. Relay rack shall be Powder Coated.	A.13	46	No	40,000.00	18,40,000.00	MITES	7.2.3	Others
14	Workstation Table large size with required fittings and arrangement for station Master Panel Operator room for Fixing of VDU-2nos as operating panel as per specifications mentioned in Annexure-2 of chapter-VII of SECTION-VI.	A.14	8	No	8,00,000.00	64,00,000.00	Consignee		Others
15	Relay QNA-K AC, AC immunized, 08F/08B, 12F-4B, 24VDC (1000 Ohm) as per specifications mentioned in chapter-VII of SECTION-VI.	A.15	1578	No	4,500.00	71,01,000.00	RDSO	7.2.2	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
16	Fire Extinguisher CO2 type (capacity 6.5 kg.) (QTY 120 = 90 for Sig + 30 for Tele)	A.16	120	Nos.	9,000.00	10,80,000.00			Others
	Indoor cables and wires								
17	Supply of PVC flexible copper cable single core multistrand 1 x 2.5 Sq.mm (50 conductor each diameter 0.25 +/- 0.01) as per specifications mentioned in chapter-VII of SECTION-VI.	A.17	10	KM	39,000.00	3,90,000.00	RDSO	7.2.7	Others
18	Supply of PVC flexible copper cable single core multistrand 1 x 6 Sq.mm as per specifications mentioned in chapter-VII of SECTION-VI.	A.18	24	KM	80,000.00	19,20,000.00	RDSO	7.2.7	Others
19	Supply of PVC flexible copper cable single core multistrand 1 x 10 Sq.mm as per specifications mentioned in chapter-VII of SECTION-VI.	A.19	19	KM	1,50,000.00	28,50,000.00	RDSO	7.2.7	Others
20	Supply of PVC flexible copper cable single core multistrand 1 x 16 Sq.mm (126 conductor each diameter 0.40 +/- 0.01) as per specifications mentioned in chapter-VII of SECTION-VI.	A.20	33	KM	2,00,000.00	66,00,000.00	RDSO	7.2.7	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
21	Supply of PVC Indoor Cable 1x60x0.6mm dia as per specifications mentioned in chapter-VII of SECTION-VI.	A.21	8	Km	3,00,000.00	24,00,000.00	RDSO	7.2.6	Others
22	Supply of PVC Indoor Cable 1x40x0.6mm dia as per specifications mentioned in chapter-VII of SECTION-VI.	A.22	8	Km	2,50,000.00	20,00,000.00	RDSO	7.2.6	Others
23	Supply of PVC Indoor Cable 1 x 24 x 1 mm dia as per specifications mentioned in chapter-VII of SECTION-VI.	A.23	10	Km	3,10,000.00	31,00,000.00	RDSO	7.2.6	Others
24	Supply of Indoor tinned Jumper Wire of various colour as per specifications mentioned in chapter-VII of SECTION-VI.	A.24	14	Km	7,000.00	98,000.00	RDSO	7.2.6	Others
25	Supply of Indoor Jumper Wire ATC 1 x 1 mm dia. as per specifications mentioned in chapter-VII of SECTION-VI.	A.25	10	Km	10,000.00	1,00,000.00	RDSO	7.2.6	Others
26	Supply of wire 16/0.2 as per specifications mentioned in chapter-VII of SECTION-VI.	A.26	33	km	5,000.00	1,65,000.00	RDSO	7.2.6	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	Connectors, terminals, fuses etc. for indoor								
27	Supply of Modular terminal block of 2.5 sq.mm 2 in 2 out type disconnect type terminal along with as per specifications mentioned in chapter-VII of SECTION-VI.	A.27	24192	No	130.00	31,44,960.00	RITES	7.3.25	Others
28	Supply of End Plate for above Item	A.28	2016	No	30.00	60,480.00	RITES	7.3.25	Others
29	Supply of End Stopper for above Item	A.29	2016	No	30.00	60,480.00	RITES	7.3.25	Others
30	Supply of DIN Channel for the terminals 1 Mtrs each.	A.30	544	Mtr/No.	150.00	81,600.00	RITES	7.3.25	Others
31	Supply of Indicative type Fuse base/ holder with cap, suitable to G type fuse of capacity 0.63A - 3.0A. as per specifications mentioned in chapter-VII of SECTION-VI.	A.31	3115	Nos	100.00	3,11,500.00	RITES	7.2.15	Others
32	Supply of Indicative type Fuse suitable to G type fuse link of capacity 0.63 A - 3.0 A as per specifications mentioned in chapter-VII of SECTION-VI.	A.32	3115	Nos	50.00	1,55,750.00	Consignee	7.2.15	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
33	Supply of D type fuse block non indicating type low voltage non deteriorating fuse base suitable for fuse link of capacity 2A/6A/10A as per specifications mentioned in chapter-VII of SECTION-VI.	A.33	310	Nos	350.00	1,08,500.00	Consignee	7.2.15 7.3.16	Others
34	Supply of D type fuse link non indicating type low voltage non detonating, capacity 2A/6A/10A as per specifications mentioned in chapter-VII of SECTION-VI.	A.34	310	Nos	150.00	46,500.00	Consignee	7.2.15 7.3.16	Others
35	Supply of Tag block 200 way with PVC covers as per specifications mentioned in chapter-VII of SECTION-VI.	A.35	150	No	2,500.00	3,75,000.00	RDSO	7.2.5	Others
36	Supply of Tag Blocks 96 way with polycarbonate cover as per specifications mentioned in chapter-VII of SECTION-VI.	A.36	76	No	1,500.00	1,14,000.00	Consignee	7.2.5	Others
37	Supply of Standard Tools set as per annexure-11 of chapter-VII of SECTION-VI.	A.37	19	Set	1,00,000.00	19,00,000.00	Consignee		Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
38	Supply of Fuse auto changeover system for used in Railway Signalling System as per specifications mentioned in chapter-VII of SECTION-VI.	A.38	44	Per module	28,000.00	12,32,000.00	MITES	7.2.16	Electronics
39	Supply of Fuse auto changeover system for used in Railway Signalling System as per specifications mentioned in chapter-VII of SECTION-VI.	A.39	9	Per module	40,000.00	3,60,000.00	MITES	7.2.16	Electronics
40	Supply of test and measuring instruments as per technical specification								Others
i	Digital Multimeter of Fluke 287 Industrial, True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 second or Superior. (QTY 28 = 19 for Sig + 9 for Telecom)	A.40.i	28	No.	1,00,000.00	28,00,000.00	Consignee		Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
ii	Digital low current clamp meter to measure current leaks (parasitic drawer down to 1 mA) and electric loads from 1mA to 100 Amp AC/DC , Voltages from 0 to 600V AC/DC , small jaw size to measure current in signalling circuit , 4 digit display . Make -Fluke, GTC/KEW, Scope or superior with better specification as mentioned with all accessories like test lead, batteries and carrying case, sample may be got approved from consignee before supply. (QTY 28 = 19 for Sig + 9 for Tele)	A.40.ii	28	No.	40,000.00	11,20,000.00	Consignee		Others
iii	Handheld Digital Earth Tester for earth/ground resistance measurement up to 1000 ohms. Any reputed make like meggar etc. sample may be got approved from consignee before supply.	A.40.iii	19	No.	1,00,000.00	19,00,000.00	Consignee		Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	Power supply (IPS and DG set.)								
41	SUPPLY AND COMMISSIONING OF SMPS BASED INTEGRATED POWER SUPPLY SYSTEM as per specifications mentioned in chapter-VII of SECTION-VI.	A.41	39	Set	16,00,000.00	6,24,00,000.00	RDSO	7.2.9	Electronics
42	Supply of PVC flexible copper cable single core multistrand 1 x 25 Sq.mm (196 conductor each diameter 0.40 +/- 0.01) as per specifications mentioned in chapter-VII of SECTION-VI.	A.42	14	KM	4,00,000.00	56,00,000.00	RITES	7.2.7	Others
43	Supply of Microprocessor based universal earth resistance sensing ELD unit 12 channel AC/DC as per specifications mentioned in chapter-VII of SECTION-VI	A.43	38	Nos	1,22,000.00	46,36,000.00	RDSO	7.2.14	Electronics
44	Supply of Program switches, snap action, base mounting type along with acrylic cover and mounting bracket, 25A, 6 poles, and 3 positions as per specifications mentioned in chapter-VII of SECTION-VI	A.44	180	No.	8,000.00	14,40,000.00	Consignee	7.2.10	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
45	Supply of Program switches, snap action, base mounting type along with acrylic cover and mounting bracket, 63A, 9 poles, and 3 positions make as per specifications mentioned in chapter-VII of SECTION-VI	A.45	180	No.	14,000.00	25,20,000.00	Consignee	7.2.10	Others
46	Supply of Low-Tension Power Distribution Panel suitable for automatic changeover between 3 in coming supplies of 3 phase having manual bypass arrangement along with inbuilt distribution of power supplies suitable for RRI/PI installations as per specifications mentioned in chapter-VII of SECTION-VI	A.46	19	No	6,50,000.00	1,23,50,000.00	Consignee	7.2.13	Others
47	Power supply distribution board for all supplies, with fuses and links, as per the instructions of engineer in charge.	A.47	19	No.	30,000.00	5,70,000.00	Consignee		Others
48	Supply of Single phase, 50KVA TVSS	A.48	19	Nos	50,000.00	9,50,000.00	Consignee		Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
49	Supply of Isolation transformer Input 230V AC single phase 50 Hz Output 230 V AC Single phase 50 Hz Capacity 50KVA as per specifications mentioned in chapter-VII of SECTION-VI	A.49	18	Nos	2,00,000.00	36,00,000.00	RDSO	7.2.10	Others
	Transformer Rectifier Set as per IRS(S) 91/93 Amendment - 1.								
50	Supply of Transformer 230V/110-130V Single Phase 3 KVA as per specifications mentioned in chapter-VII of SECTION-VI.	A.50	10	Nos	30,000.00	3,00,000.00	RDSO	7.2.10	Others
51	Supply of Transformer 230V/110V-130V Single Phase 2 KVA as per specifications mentioned in chapter-VII of SECTION-VI.	A.51	40	Nos	15,000.00	6,00,000.00	RDSO	7.2.10	Others
52	Supply of Transformer Rectifier 230V A.C./ 120V DC/40 A. as per specifications mentioned in chapter-VII of SECTION-VI.	A.52	7	Nos	1,50,000.00	10,50,000.00	RDSO	7.2.10	Others
53	Supply of Transformer Rectifier Set 230V A.C./ 60V/24V DC/60A.as per specifications mentioned in chapter-VII of SECTION-VI.	A.53	18	Nos	1,60,000.00	28,80,000.00	RDSO	7.2.10	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
54	Supply of Transformer Rectifier Set 230V A.C./ 60V DC/60A. as per specifications mentioned in chapter-VII of SECTION-VI.	A.54	72	Nos	1,60,000.00	1,15,20,000.00	RDSO	7.2.10	Others
55	Supply of Transformer Rectifier Set 230V A.C./ 24V DC/20A as per specifications mentioned in chapter-VII of SECTION-VI.	A.55	50	Nos	50,000.00	25,00,000.00	RDSO	7.2.10	Others
56	Supply of Rubber Mat for Power Equipment room. (5mm thick)	A.56	1175	Kg	170.00	1,99,750.00	Consignee		Others
57	Supply of Distribution Cum Auto-changeover Box between two AC supplies of 110V as per specifications mentioned in chapter-VII of SECTION-VI.	A.57	82	Nos	70,000.00	57,40,000.00	Consignee	7.2.12	Electronics
58	Supply of Distribution Cum Auto-changeover Box between two DC supplies of 24VDC as per specifications mentioned in chapter-VII of SECTION-VI.	A.58	65	Nos	80,000.00	52,00,000.00	Consignee	7.2.12	Electronics
59	Supply of Distribution Cum Auto-changeover Box between two DC supplies of 24V or 60V as per specifications mentioned in chapter-VII of SECTION-VI.	A.59	79	Nos	70,000.00	55,30,000.00	Consignee	7.2.12	Electronics

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	FIRE ALARM SYSTEM								
60	Supply of analog addressable two loop fire alarm control panel with minimum 125 devices per loop along with battery backup without GSM interface module as per specifications mentioned in chapter-VII of SECTION-VI.	A.60	8	Nos	1,50,000.00	12,00,000.00	RDSO	7.2.19	Others
61	Supply of Addressable Manual call point with inbuilt fault isolator as per specifications mentioned in chapter-VII of SECTION-VI.	A.61	24	Nos	4,400.00	1,05,600.00	RDSO	7.2.19	Others
62	Supply of Addressable loop powdered sounder cum strobe with inbuilt fault isolator as per specifications mentioned in chapter-VII of SECTION-VI.	A.62	24	Nos	8,900.00	2,13,600.00	RDSO	7.2.19	Others
63	Supply of Addressable heat and smoke multi sensor with base and inbuilt fault isolator as per specifications mentioned in chapter-VII of SECTION-VI.	A.63	200	Nos	2,900.00	5,80,000.00	RDSO	7.2.19	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
64	Supply of Addressable probe type bimetallic heat detector with base and inbuilt fault isolator as per specifications mentioned in chapter-VII of SECTION-VI.	A.64	24	Nos	6,500.00	1,56,000.00	RDSO	7.2.19	Others
	Automatic Fire Suppression System (AFSS)					-			
65	Automatic fire suppression system for signalling installation as per draft RDSO specification no. RDSO/SPN/218/2016 * complete design of the system shall be UL/FM/VDS/LPCB approved. ** Each schedule item is supported with detailed annexures which are extract of draft RDSO spec. no. RDSO/SPN/218/2016 however all supporting annexure/ description are indicative and in case of any deviation details given in draft RDSO Spec. no. RDSO/SPN/218/2016 will prevail.					-			

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
(i)	Design and supply of 120 Ltrs cylinder with valve and warning signboard. The product shall be UL/FM/Vds /LPCB approved.	A.65.i	12	Nos.	82,000.00	9,84,000.00	RDSO	7.2.20	Others
(ii)	Supply of master cylinder accessories listed below. The product shall be UL/FM/Vds /LPCB approved (a) Pressure gauge + low pressure supervisory switch (b) Electromagnetic actuator (c) Manual actuator (d) Pneumatic actuator (e) Flexible discharge .	A.65.ii	4	Set	47,000.00	1,88,000.00	RDSO	7.2.20	Others
(iii)	Supply of end slave cylinder accessories listed below - The product shall be UL/FM/Vds /LPCB approved (a) Pressure gauge + low pressure supervisory switch (b) Pneumatic actuator (c) Flexible discharge hose (d)Flexible actuation hose (+1Nos extra) (e) Tee (f) Elbow.	A.65.iii	12	Nos	27,000.00	3,24,000.00	RDSO	7.2.20	Others
(iv)	Supply of 3 Mts novac 1230 flued factory field in above cylinder. The product shall be UL/FM/Vds /LPCB approved.	A.65.iv	1200	Kg	2,750.00	33,00,000.00	RDSO	7.2.20	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
(v)	Supply of check valve. The product shall be UL/FM/Vds /LPCB approved.	A.65.v	12	Nos	11,450.00	1,37,400.00	RDSO	7.2.20	Others
(vi)	Supply of discharge nozzles valve. The product shall be UL/FM/Vds /LPCB approved.	A.65.vi	24	Nos	2,750.00	66,000.00	RDSO	7.2.20	Others
(vii)	Supply of pressure switch suitable to above cylinder.	A.65.vii	12	Nos	4,700.00	56,400.00	RDSO	7.2.20	Others
(viii)	Gas release panel with battery backup, other details	A.65.viii	4	Nos	19,000.00	76,000.00	RDSO	7.2.20	Others
(ix)	Supply of manual abort switch suitable to above cylinder.	A.65.ix	4	Nos	2,400.00	9,600.00	RDSO	7.2.20	Others
(x)	Supply of manual release switch suitable to above cylinder.	A.65.x	4	Nos	2,400.00	9,600.00	RDSO	7.2.20	Others
(xi)	Gas manifold for two cylinders made of schedule 40 seamless pipe with required coupling, end cap etc.	A.65.xi	12	Set	1,200.00	14,400.00	RDSO	7.2.20	Others
(xii)	supply of schedule 40 seamless pipe as per ASTM A06, GrB, Sch40, with fitting conforming to ASTM A 105, sch.40 including pipe supports, painting etc for the protected room up to the cylinder banks, this includes for relay and power room.	A.65.xii	4	LS	63,000.00	2,52,000.00	RDSO	7.2.20	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
(xiii)	Supply of 2Cx1.5 Sq mm shielded ATC FRLS armored cables (product should ISI marked).	A.65.xiii	1200	Mts	102.00	1,22,400.00	RDSO	7.2.20	Others
(xiv)	Supply and fixing of PVC casing and capping / PVC pipe of minimum 25mm size or higher as per requirement at site on the wall/ floor etc, using bends, couple and T joints and flexible pipe whenever necessary with fixtures. (all required material for fixing to be arranged by Contractor).	A.65.xiv	400	Mts	78.00	31,200.00	RDSO	7.2.20	Others
(xv)	Supply of 4 connection points single potential through screw less terminal block for 6 Sqmm-35 Sq mm, 4 connection points 284-621/624 or superior, suitable for power cable connection.	A.65.xv	120	Nos	250.00	30,000.00	RDSO	7.2.20	Others
	ASM Office articles								
66	Air revolving tilting Chair	A.66	18	No	15,000.00	2,70,000.00	Consignee		Others
67	Office Chair with continuous Arm Model Godrej CH 1007 or similar (Qty 116 = 92 for Sig + 24 for Tele)	A.67	116	No	5,000.00	5,80,000.00	Consignee		Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
68	Office Table of size of table of model no T9 of Godrej or equivalent model of same make with 3 drawers on left hand side & one locker on the right-hand side. Olive brown with duplicate keys. (QTY 74 = 16 for Tele + 58 for Sig)	A.68	74	No	16,000.00	11,84,000.00	Consignee		Others
69	Plain storage almirah with 4 adjustable shelves size 1980 mm height, 915 mm width, 485 mm depth. (QTY 73 = 16 for Tele + 57 for Sig)	A.69	73	No	22,000.00	16,06,000.00	Consignee		Others
70	Supply of Key Lock Relay with different ward combinations (Three extra set of ward plate for Point Machine to be supplied with each relay). Siemens Make working on 60V DC/24V DC or functional equivalent without base plates. as per specifications mentioned in chapter-VII of SECTION-VI.	A.70	122	No	12,000.00	14,64,000.00	RDSO	7.2.2	Others

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
71	Supply of 19" 42Ucabinet for housing of Pre-wired Crank Handle cum key lock relay box (of metal) along with LEDs, with approved type push buttons, 8-way terminal strips, string rod, etc. as per Specification mentioned in chapter-VII of SECTION-VI (clause 7.6). (Qty 44 = 10 for Sig + 34 for Tele)	A.71	44	No	42,000.00	18,48,000.00	Consignee	7.6.18	Others
	MSDAC								
72	Supply of Digital Axle Counter Multi section type complete system including the Central Evaluator and final track clearance relay for each section, Reset boxes, LV boxes, All track side units with detection point complete assembly & fixing arrangement for each detection point, clamps deflector for either side of each detection points, monitoring console for monitoring all the DPs at a time installed at a station/ RH/IBH etc. with all other accessories fully wired and fully equipped as per specifications mentioned in chapter-VII of SECTION-VI.	A.72	2000	Per DP	3,20,000.00	64,00,00,000.00	RDSO	7.2.4.1	Electronics

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
73	Supply of Tool Kit for MSDAC suitable for the system supplied against item no. 135 of this schedule.	A.73	19	Nos	3,00,000.00	57,00,000.00	Consignee		Others
	KAWACH								
74	Supply (Including Spares), Installation & Commissioning of station TCAS Equipment with suitable Rack consisting of Vital computer peripherals, 2 full duplex Radio modems, OFC modems, UHF antennas, GPS and GSM antenna and interface as per specifications mentioned in chapter-VII of SECTION-VI.	A.74	19	No	40,00,000.00	7,60,00,000.00	RDSO	7.2.21	Electronics
	Schedule B (Indoor Execution of works)								

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	Electronic Interlocking (EI) System								
75	(a) Phase I- Installation, wiring, programming, testing and commissioning of EI equipment supplied as per specifications mentioned in chapter-VII of SECTION-VI, including transportation from Consignee's depot to site. The works and materials for installation, wiring, testing and commissioning, grouting, cutting of floors, walls, refilling of the same, re-plastering, required CC/ masonry works, fixing/ placing/ laying of insulated ladders/ casing-capping/ cable trays/ RCC/GI pipes / Cables, termination of cables with lugs/ connectors, painting,/ lettering are to be provided/ done by the contractor for the equipments supplied vide Item of Schedule "A" of this contract. This also covers the networking of built in EI Data loggers of all the stations to monitor the system to any other places where desired by Engineer-in-charge.	B.75	18	Job	4,00,000.00 <i>(Rate banned for future LARs)</i>	72,00,000.00		7.4.1 7.4.10. A 7.4.11	Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
76	(b) Phase II- Installation, wiring, programming, testing and commissioning of EI equipment supplied as per specifications mentioned in chapter-VII of SECTION-VI, including transportation from Consignee's depot to site. The works and materials for installation, wiring, testing and commissioning, grouting, cutting of floors, walls, refilling of the same, re-plastering, required CC/ masonry works, fixing/ placing/ laying of insulated ladders/ casing-capping/ cable trays/ RCC/GI pipes / Cables, termination of cables with lugs/ connectors, painting,/ lettering are to be provided/ done by the contractor for the equipment supplied vide Item of Schedule "A" of this contract. This also covers the networking of built in EI Data loggers of all the stations to monitor the system to any other places where desired by Engineer-in-charge.	B.76	8	Job	4,00,000.00 <i>(Rate banned for future LARs)</i>	32,00,000.00		7.4.1 7.4.10. A 7.4.11	Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
77	Phase I & II -After installation of EI System, Maintenance & Supervision for One year, as per details given in Special Condition of Contract, Technical requirement & SEM. Phase II (<15 days consider as one month) for 19 installations	B.77	19	Month	3,00,000.00 <i>(Rate banned for future LARs)</i>	57,00,000.00			Labour
78	Training of Technician/ Jr. Engineer for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant).	B.78	45	Man/Day	2,000.00 <i>(Rate banned for future LARs)</i>	90,000.00			Labour
79	Training of Officers for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant).	B.79	45	Man/Day	2,000.00 <i>(Rate banned for future LARs)</i>	90,000.00			Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	Dataloggers								
80	Installation, wiring, testing and commissioning of Data logger complete along with accessories with Contractors own wiring & fixing material as per specifications mentioned in chapter-VII of SECTION-VI							7.4.4	Labour
(i)	1024 digital & 32 analog inputs	B.80.i	14	Set	20,000.00	2,80,000.00			Labour
(ii)	2048 digital & 32 analog inputs	B.80.ii	4	Set	50,000.00	2,00,000.00			Labour
(iii)	4096 digital & 32 analog inputs	B.80.iii	1	Set	80,000.00	80,000.00			Labour
81	Installations, wiring, testing and commissioning of Remote Terminal Unit complete along with accessories using Contractor's own wiring & fixing materials as per specifications mentioned in chapter-VII of SECTION-VI	B.81	18	Set	15,000.00	2,70,000.00		7.4.4	Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	CT Racks								
82	Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding, 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc as per specifications mentioned in chapter-VII of SECTION-VI	B.82	114	No	15,000.00	17,10,000.00		7.4.2	Labour
83	Fixing of Q series relay base plate/metal to metal relay mini group and major group base plate, laying, bunching, lacing, dressing & packeting of 60/40 core PVC indoor cable/flexible wire and termination of 60/40 core cable/flexible wire on tag block/base plate & base plates & soldering. This includes fuse wiring, bus bar looping etc. required for keeping installation ready for circuit wiring work & panel troughing work. The work shall be done as per specifications mentioned in chapter-VII of SECTION-VI Note: -Q-series relay wiring should be also done in apparatus cases with suitable fixing frame.	B.83	1200	Nos	15,000.00	1,80,00,000.00		7.4.3	Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
84	Fixing of Screw less connectors and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry as per specifications mentioned in chapter-VII of SECTION-VI	B.84	24192	No.	15.00	3,62,880.00			Labour
85	Supply & installation of Test board (LED, Pin tool type) for relay Room as per specifications mentioned in chapter-VII of SECTION-VI	B.85	18	No	20,000.00	3,60,000.00		7.4.5	Labour
	Power supply (IPS)								
86	Installation of IPS at 4 to 6 Line station as per specifications mentioned in chapter-VII of SECTION-VI	B.86	39	set	2,50,000.00	97,50,000.00		7.4.7	Labour
87	Installation, wiring, testing & commissioning of Microprocessor based universal earth leakage detector unit 12 channel AC/DC as per specifications mentioned in chapter-VII of SECTION-VI	B.87	38	Nos	15,000.00	5,70,000.00		7.4.7	Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
88	Erection of power panel, power supply Equipments, stabilizers, Transformers, rectifiers, battery chargers, thermos flasher, ELD program switches etc. as per specifications mentioned in chapter-VII of SECTION-VI	B.88	19	LS	25,000.00	4,75,000.00		7.4.7	Labour
89	Installation & Commissioning of TVSS	B.89	19	Nos	5,000.00	95,000.00			Labour
90	Installation of Automatic Changeover System it includes supply of casing capping, lugs etc. required for installation (Wire will be supplied by the Rlys.) as per specifications mentioned in chapter-VII of SECTION-VI	B.90	226	Nos.	15,000.00	33,90,000.00		7.4.7	Labour
91	Installation of maintenance free earth electrode as per specifications mentioned in chapter-VII of SECTION-VI (QTY 40 = 19 for sig+ 21 for Tele)	B.91	40	Nos.	7,000.00	2,80,000.00		7.4.18	Labour
92	Fixing of KLCR relays in field in half location boxes/ Boxes in SM office. Item includes supply and fixing per specifications mentioned in chapter-VII of SECTION-VI	B.92	122	No	5,000.00	6,10,000.00		7.4.9	Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	Drawings								
93	Preparation & supply of various diagrams on gateway tracing paper supply prepared on Auto CAD in A-3 size. Proportionate payment shall be made for A-1/A-2/A-4 sizes. Below and supplied with CD back up the basis of draft diagrams supplied by Railways. A proportionate payment will be made for other size of drawings.	B.93	11300	Nos.	200.00	22,60,000.00			Labour
	Automatic Fire Suppression System (AFSS)								
94	Programming installation testing and commissioning of Fire Alarm System (all necessary misc. material etc. which are not covered in the scope of schedule of work shall be supplied by contractor). The design and calculation shall be checked and certified by the manufacturer or trained designer.	B.94	18	LS	90,000.00	16,20,000.00			Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
95	Programming , installation, testing and commissioning of Fire suppression system and integrating with fire alarm system including integration with detection system (it includes all types of design elements, room integrity test by manufacturer as per MFPA guideline mention as per draft RDSO specification no. RDSO/SPN/218/2016 before installation, define checklist as mention in RDSO spec, all necessary misc. material etc. which are not covered in the scope of schedule of work shall be supplied by contractor.)	B.95	4	LOT	1,20,000.00	4,80,000.00			Labour
	MSDAC & Track circuits								
96	Installation of Digital Axle counter Central Evaluator, wiring from CT rack to Central Evaluator, Installation, and wiring of indoor & outdoor reset box and wiring the power supply including supply of 2 core shielded cable required size copper conductor as per specifications mentioned in chapter-VII of SECTION-VI	B.96	485	Set	15,000.00	72,75,000.00		7.4.6 7.4.10.B	Labour

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
97	Installation of EJB and Track devices of Digital Axle Counter as per specifications mentioned in chapter-VII of SECTION-VI	B.97	2361	Nos	20,000.00	4,72,20,000.00		7.5.15	Labour
	KAWACH								
98	Design, supply, Installation & Commissioning of 40 Meter Lattice tower at station including fencing, painting, earthing (earth resistance less than 1 ohm).	B.98	19	No	50,00,000.00	9,50,00,000.00			Labour
99	Total Amount for A+B	C.99			-	1,53,09,51,600.00			
100	Payment for ensuring implementation and monitoring of all provisions in Safety, Health and Environmental Manual (SHE Manual) of MRVC during execution of works through entire contract period including deployment of required SHE organization as mentioned in SHE manual with required qualification, arranging training to all workers and staff engaged for work, regular health check-up of labours, arranging SHE meetings, SHE Inspection, SHE audit, SHE communication i.e. posters/ signages/ VIDEO/	C.100			3% of C.99	4,59,28,548.00			

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	Audio, SHE housekeeping, Safety training, provision of protective wears, labour welfare measures, Environmental management, traffic management of vehicles for construction activities, etc. complete as detailed in Safety, Health and Environment manual of MRVC. Notes TO ITEM 100: - 1. Rate for this item is 3% percentage of total cost of work in this Schedule A&B. 2. Separate SHE organization/team shall be deployed. 3. Penalty will be imposed for failure or violations in implementation of SHE manual provisions as mentioned in chapter VI of SECTION VI of SHE Manual. 4. Persistent failure or violation of SHE manual provision may attract termination of contract. 5. Payment will be released with each interim payment as per percentage quoted by the contractor for this item after recovering penalties								

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate (Excluding GST)	Amount (Excluding GST)	Inspecting Authority	Specification clause of Chapter VII of Section VI	PVC Categorization
	imposed for violation of provision of manual, if any. 6. During non-progress of work no payment will be made under this item. 7. The works are funded by AIIB and as such all provisions of AIIB regulations and operational guidelines regarding Safety, Health and Environment are applicable and the above item of implementation/compliance includes the same.								
	Total Amount INR (Excluding GST)					157,68,80,148.00			
	GST Amount @18%					28,38,38,426.64			
	Total Amount in INR (Inclusive of GST)					186,07,18,574.64			

NOTE: - The rates for supply and execution of EI system (comprising of scheduled items code A.1.i to A.1.xvii, A.2.i, A.2.ii, A.3, A.4, A.5, A.6 and B.75, B.76, B.77, B.78, B.79) shall not be taken into considerations for future references for estimation and tendering as LARs.

Signature: DINESH KUMAR VASHISHTHA
 Digitally signed by DINESH KUMAR VASHISHTHA
Date: 2024.06.21 15:28:00 +05'30'

Name: Dinesh Kumar Vashishtha

Title/position: Chief Signal and Telecommunication Engineer (CSTE)

Mumbai Railway Vikas Corporation Ltd.