**Sr.DSTE/Co-ord/BRC** acting for and on behalf of The President of India invites E-Tenders against Tender No **SandT\_BRC\_22-23\_47\_SIG** Closing Date/Time 14/04/2023 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

#### 1. NIT HEADER

Name of Work	Interlocking (E.I) system at S&T work in connection with	esign, Supply, Installation, Programming, Testing and Commissioning of Electronic netrolocking (E.I) system at Kapadvanj station of Nadiad-Modasa Section along with outdoor &T work in connection with the work of "Kapadvanj station: Converting SP class into "B" ass station with Electronic Interlocking "							
Bidding type	Normal Tender		-						
Tender Type	Open	Bidding System	Single Packet System						
Tender Closing Date Time	14/04/2023 15:00	Date Time Of Uploading Tender	14/03/2023 12:00						
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable						
Advertised Value	58626562.15	Tendering Section	WORKS N						
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par						
Earnest Money (Rs.)	443100.00	Validity of Offer ( Days)	60						
Tender Doc. Cost (Rs.)	0.00	Period of Completion	11 Months						
Contract Type	Works	Contract Category	Expenditure						
Bidding Start Date	31/03/2023	Are Joint Venture (JV) firms allowed to bid	No						
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)						

## 2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedu	le A-Supply	/ Items					32451221.91	
	A1	207.00	Per Functional Vital Bit		16003377.00	39.73	22361518.68	
1	complete requireme consisting Industrial and other wires, Ind supply cor type termi approved connector each type	as per RE nt & tentat of Central F Grade VDU system in s ustrial grade overters for E nals, fixture signaling p s etc. for eac mainly cons	SO specificat ive approved Processing Equ panel (42" 4K standby mode) e maintenance El equipments, mounting arrar plan. The ten ch station. Sup sisting of proce	ion No. RDSO, Signalling Plan lipment, Interface LED) with Redu o, All Interfacing Terminals (42" Housing for El e ogements and ac derer should fu ply of 10% Esse	Hot Standby Archit /SPN/192/2005 wi s & Diagrams. E e Equipment/Relay ndancy (Hot stand Relays suitable f 4K LED with UPS equipments and Re ccessories necessa urnish complete of ntial spares of the odule, interface re Station)	th latest an Electronic Inter- ys etc as pee -by dual VD or El, interc minimum 1 lay Racks, fu rry to make to details of c El equipme	mendment, as per erlocking (El) sys r requirements, Du U Normally one sy onnecting cables a hr back up), requises, screw less dia he El system funct ards/ modules/ s nts subject to minin	er technical tem mainly ial operator stem online and Jumper uired power sconnecting ional as per ub-modules mum one of
	A2	1.00	Numbers	35302.00	35302.00	39.73	49327.48	

2	
	<b>Description:-</b> Supply of documents (Manuals for Installation, Testing, commissioning and maintenance of th system) (One set consist of 6 set of following drawings per Station). (i) Manual for installation, Testin Commissioning and maintenance of the system for Technicians / Jr. Engineers. (Installation & Maintenance level (ii) Functioning and system overview (Higher management level). (iii) Completion documents as per species conditions of contract. iv) Design & Supply of circuits and plans to suit layout given in the signaling plan for H Standby Architecture Electronic Interlocking (EI) system. All plans and wiring diagram shall be prepared on Au cad Drawing and supplied with CD. This will include supply of Control cum Indication panel / VDU diagram, Squa Sheet, Wiring Diagrams (Application Logic and Interface Circuit), Fuse Analysis, Contact Analysis, Tag Blod Analysis, Power Supply Distribution / Power equipment arrangement (with program switch) Diagram, Auto Chang over diagram (if supplied by the contractor), and all other relevant drawings. NOTE: The contactor shall initia supply 1 set of documents (Paper Prints) for approval of Railways. He shall ensure the each sheet has a block for signature of Railway official as well as a block for signature of firm, duly signed by the authoriesed signatory of th firm. The name of the work as given by Railways shall be written on every sheet under the work column. All the drawing shall be supplied in a good quality folder for each station. After approval of documents by Railways, the contractor will make copies of the approved documents and return the approved document to Railways. Traing completion documents as mentioned above will be submitted to Railways for approval. Along with the Completic application logic, difference report (showing addition & deletion in different colours) as compared to earli approved application logic should also be submitted. After approval of completion application logic by Railways, sets of copies of completion tracings will be submitte
	A3 1.00 Set 110490.00 110490.00 39.73 154387.68
3	<b>Description:-</b> Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for system should be supplied for stations as per schedule item 1 above. (This includes tools required for maintenance sorts of crimping, insertion, removal, general purpose tools like screw drivers, spanners, PC extractor, temp. controlled soldering iron, wire cutter, nose pliers etc. & measuring instruments with carrying cas holders/ cabinet for technicians/ J.E. for testing, Maintenance and repair at site). Each set comprises of th following :- * Crimping tool for all types of special cable assembly used in El system. * Insertion tool for all types special cable assembly used in El system. *Insertion tool for all types recial multimeter (Fluke 111 or better) * Steel cabinet/ Almira, Size: 1980mm height, 915 mm width and 485 m depth (Godrej Make/Jalaram) of good quality to store tool, spare cards and documents. * Steel Book rack Siz 1850mm height, 900 mm width and 316 mm depth for keeping documents. (Godrej Make/Jalaram) * Clamp Ear Tester. * Clamp Current Meter.
4	A41.00Job111143.00111143.0039.73155300.11Description:- "Earthing of El equipment, relay racks and Power equipment etc to be done along with the supp of all requisite materials. Earthing shall be in the form of Ring Earth conforming to RDSO specification NRDSO/SPN/197/2008 (with a min. of 6 maintenance free earth electrodes) & RDSO Drawing issued under RailwaBoard letter No. 2010/Sig./SGF/EI (Ansaldo) Dated 22.06.11, made using copper rings with earth resistance learth an 1 ohm. The earthing shall be maintenance free & earth enhancement compound should be used. The rine earth shall be connected to copper flat of size 25x3 mm in the relay room and IPS room. This copper flat shall be fixed on the wall to the entire breadth of the Relay room and IPS room as an earth bus bar and all ear connections shall be taken from it. A, B, C, & D class protection shall be provided for all El equipment. Note:- The will also cover the earthing & necessary protection of El equipment as per details given in the scope of work Special Condition of Contract and other requirement given in Chapter 5 & Pre-commissioning check list of system. "
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5 6 7	A4 1.00 Job 111143.00 111143.00 39.73 155300.11   Description:- "Earthing of El equipment, relay racks and Power equipment etc to be done along with the supp of all requisite materials. Earthing shall be in the form of Ring Earth conforming to RDSO specification N RDSO/SPN/197/2008 (with a min. of 6 maintenance free earth electrodes) & RDSO main issued under Railwas Board letter No. 2010/Sig/SGF/El (Ansaldo) Dated 22.06.11, made using copper rings with earth resistance let than 1 ohm. The earthing shall be maintenance free & earth enhancement compound should be used. The rir earth shall be connected to copper flat of size 25X3 mm in the relay room and IPS room. This copper flat shall be connected to copper flat of size 25X3 mm in the relay room and IPS room. This copper flat shall ear connections shall be taken from it. A, B, C, & D class protection shall be provided for all El equipment. Note: Th will also cover the earthing & necessary protection of El equipment as per details given in the scope of work Special Condition of Contract and other requirement given in Chapter 5 & Pre-commissioning check list of system."   A5 6.00 Numbers 19974.00 119844.00 39.73 167458.02   Description:- Cable termination racks as per Drg. no. CSTE 5004, 5005, 5006 complete along with fittir arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals on each ro having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals not covered under this item. Cab termination racks shall be decided by engineer - in - Charge. Single core multi-strand wire 0.5 sq.mm. (10 conductor each dia. 0.2mm), as per IRS 76/89 (Amd3).   A7 0.50

3	<b>Description:-</b> Flexible cable (Power wire), multi-strand copper conductor's cross section 25 Sq. mm (0.4x196) as per specn. IS 694/2010 with latest amendment, and test parameters as per IRS(S) 76/89.							
	A10	8.00	Numbers	4804.00	38432.00	39.73	53701.03	
10	-				nounting type alon			ing bracket
	-	-		emens / Thakur		g with doi yild		ing bracket,
	A11	8.00	Numbers	5833.00	46664.00	39.73	65203.61	
11	Descripti	on:- Fire Exti	nguisher CO2 t	type (capacity 7	kg.) with trolley.			
	A12	1.00	Numbers	482525.00	482525.00	39.73	674232.18	
	Descripti	on:- Data log	ger system fo	r Railway S&T	installation As per	spec. IRS: S	-99 2006 (Amdt-	3) or latest.
12	required station tak	Software tool	s.This also inc	ludes supply of	eer Annexure) with f one no composi no Godrej make o	te computer	& printer table (C	Godrej work
	A13	1.00	Numbers	267961.00	267961.00	39.73	374421.91	
13	IRS:S-992 Engineer specificati specificati	2006 (Amdt-3 in charge be on given in on shall be pi	) or latest. The fore supply. No contract Agree rovided in tende	e specification c ote: The Specif ement or highe er documents.)		System shou Analysis Syste roved by Eng	ld be got approve em shall be as p jineer In-Charge.	ed from the er technical
	A14	1.00	Numbers	42969.00	42969.00		60040.58	
14	Descripti inputs.	on:- Failure	Analysis & Fau	ult Diagnostic s	oftware for data lo	ogger of 1024	4 digital inputs /	4096 digital
	A15	1.00	Numbers	26250.00	26250.00	39.73	36679.12	
15	-	<b>on:-</b> 750 VA eer in-charge		ith battery back	up 3 Hours for Fa	ulure Analysis	System of repute	ed make as
	A16	8.00	Each Track	25725.00	205800.00	39.73	287564.34	
16	rev.1 with Type or '0 with monit	latest amen a' type fuses coring arrange	dments One <i>i</i> from 0.6 Amp to ement of 4 fuse	Automatic chan o 4 Amp capaci s in one card. (	ed in Railway Sign geover Unit comp ties which are in si The unit may be re	rise 32 nos. o gnaling circui ead as Per Mo	of external Non D ts. System shall h odule)	eteriorating
	A17	3.00	Each	42426.00	127278.00	39.73	177845.55	
17	rev.1 with Type or '0	latest amen 3' type fuses	dments. One A from 4 Amp to	Automatic chang 10 Amp capacit	ed in Railway Sign geover Unit compr ies which are in si The unit may be re	rise 24 nos. o gnaling circuit	of external Non D s. System shall h	eteriorating
	A18	1.00	Numbers	12254.00	12254.00	39.73	17122.51	
18	currents u	p to 1000A,	Voltage up to 6	600V, resistance	digit,true RMS m e up to 40 M and f make Motwane/St	frequency up	to 1 MHz with se	
	A19	1.00	Numbers	45349.00	45349.00	39.73	63366.16	
19	KA as pe	er following	Specifications:	- 1) Connectio	c Grade Surge pro on Type: Parallel, tion: LEDs, Dry Co	2) Nominal		
	A20	1.00	Numbers	1160438.00	1160438.00		1621480.02	
20	version -3 of Integra	or latest and ted Power Su	d Drg No. CSTI	E/6155/ 4 of 7. NOTE: The bat	System for Station This includes tran tteries of IPS shall	sportation, ins	stallation and Cor	nmissioning
	A21	3.00	Numbers	6263.00	18789.00	39.73	26253.87	
21					Telephone equi			ication and
	-		in contract agre					
	A22	150.00	Numbers	26.00	3900.00	39.73	5449.47	
22	capacity 2		per specification		ow voltage non de or latest . Quantiti	-		
	A23	150.00	Numbers	27.00	4050.00	39.73	5659.06	
23	-				e low voltage nor o of each type of f	-		

	A24	1.00	Set	352016.00	352016.00	39.73	491871.96
							y, 15 KVA, single Phase
24	Kirloskar o Engine: A battery ma	or other repu ir cooled, die ake Exide/ Pr	uted make with sel engine der estolite/ Stand	h sound proof veloping minimu ard (12V/ 75 AF	enclosure and A.M um 20 BHP at 150 I minimum) with lea	I.F. with follo 0 rpm with a ads for startir	wing sub-components: a ccessories. Suitable capa ng arrangement. b) Alterna /LS/Mecc. Alt c) Engine a
	Tank with panel cons	continuous	running capac processor bas	city. f) Acoustic	enclosure. CPCB	approved. e)	tc. d) Minimum 150 liter F A.M.F. Auto mains Failu I can be inside or outside
	A25	8.00	Numbers	5850.00	46800.00	39.73	65393.64
25	relay). Sie	mens Make	working on 60		inized or functional		es to be supplied with ea vithout base plates. Key w
	A26	10.00	Numbers	2708.00	27080.00	39.73	37838.88
26	Descripti amendme		ype Electronic	c Magneto Te	lephone as per	spec No IRS	6/TC-79/2000 or with lat
	A27	80.00	Numbers	4735.00	378800.00	39.73	529297.24
27	-		-				4V, 6F/6B contacts, compl cable) IRS:S34 & IRS:S23
	A28	10.00	Numbers	9482.00	94820.00	39.73	132491.99
28	Latest & F assembly) Platform,	DSO Drg. No . (3). Pinnac Front Mainte	o. SA-24625 (A le. (4). Ladde enance Platfor	Advance). (2). C r Assembly, as m, MS Suppor	I Base (As per IRS per RDSO Drg. N	S-10 & RDS lo. SA-23156 upport Ladde	nm Dia, as per IRS: S-6/81 O Drg. No. 2011/M with lat , with Base, Ladder Guar er. (5). Signal Front Stag "
	A29	10.00	Numbers	158.00	1580.00	39.73	2207.73
29	-		s Godrej make technical data		v -Tal 7 lever, 65m	im dia with co	ommon key or similar prod
	A30	4.00	Numbers	00500.00			
	-	1.00	Numbers	23520.00	94080.00	39.73	131457.98
30	area TW0 23001/A/N	on:- Non Me D Aspects. ( 1 Adv. Alt- S	tallic (FRP) co Complete with and as per SI	lour light signal out lenses, lan PEC. No. RDSC	housing multi unit nps and signal tr	type for rails ansformer a	131457.98 way signaling suitable for s per RDSO DRG. No. est and FRP material as
30	area TW0 23001/A/N	on:- Non Me D Aspects. ( 1 Adv. Alt- S EC. No. RDS	tallic (FRP) co Complete with	lour light signal out lenses, lan PEC. No. RDSC 97 or latest.	housing multi unit nps and signal tr )/SPN/194/2006 (V	type for rails ansformer a	way signaling suitable for s per RDSO DRG. No.
30	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M	on:- Non Me D Aspects. ( 1 Adv. Alt- S EC. No. RDS 6.00 0n:- Non Me EE Aspects. 1 Adv. Alt- S	tallic (FRP) co Complete with and as per SI O/SPN/151/199 Numbers tallic (FRP) co Complete wit	lour light signal out lenses, lar PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC	housing multi unit nps and signal tr )/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t	type for rail ansformer a ol. 1.0) or lat 39.73 type for rail ransformer a	way signaling suitable for s per RDSO DRG. No. est and FRP material as
	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M	on:- Non Me D Aspects. ( 1 Adv. Alt- S EC. No. RDS 6.00 0n:- Non Me EE Aspects. 1 Adv. Alt- S	tallic (FRP) co Complete with and as per SI O/SPN/151/199 Numbers tallic (FRP) co Complete wit and as per S	lour light signal out lenses, lar PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC	housing multi unit nps and signal tr )/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t	type for rail ansformer a ol. 1.0) or lat 39.73 type for rail ransformer a	way signaling suitable for s per RDSO DRG. No. test and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No.
31	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M RDSO SPI A32 Descriptic	on:- Non Me D Aspects. ( 1 Adv. Alt- S EC. No. RDS 6.00 on:- Non Me EE Aspects. 1 Adv. Alt- S EC. No. RDS 2.00 on:- Calling (	tallic (FRP) co Complete with and as per SI O/SPN/151/199 Numbers tallic (FRP) co Complete wit and as per S O/SPN/151/199 Numbers ON Signal Unit	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC 97 or latest. 2241.00	housing multi unit nps and signal tr )/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie	type for rail ansformer a ol. 1.0) or lat 39.73 type for rail ransformer a /ol.1.0) or lat 39.73	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as
31	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M RDSO SPI A32 Descriptic	on:- Non Me D Aspects. ( 1 Adv. Alt- S EC. No. RDS 6.00 on:- Non Me EE Aspects. 1 Adv. Alt- S EC. No. RDS 2.00 on:- Calling (	tallic (FRP) co Complete with and as per SI O/SPN/151/199 Numbers tallic (FRP) co Complete wit and as per S O/SPN/151/199 Numbers ON Signal Unit	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC 97 or latest. 2241.00 s with Brackets &	housing multi unit nps and signal tr )/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie	type for rail ansformer a ol. 1.0) or lat 39.73 type for rail ransformer a /ol.1.0) or lat 39.73	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70
31 32	area TWC 23001/A/N RDSO SPI A31 Descriptic area THR 23001/A/N RDSO SPI A32 Descriptic A33 Descriptic 4.5 mm. h	on:- Non Me     O Aspects. (1     Adv. Alt- S     EC. No. RDS     6.00     on:- Non Me     EE Aspects.     1 Adv. Alt- S     EC. No. RDS     0.01:- Non Me     EE Aspects.     1 Adv. Alt- S     EC. No. RDS     2.00     on:- Calling (2     on 24351(A     2.00     on:- Offset b     orizontal lenge	tallic (FRP) co Complete with and as per SI O/SPN/151/199 Numbers tallic (FRP) co Complete with and as per S O/SPN/151/199 Numbers ON Signal Unit dv) Alt1 suitabl Numbers rackets for Ma	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC 97 or latest. 2241.00 t with Brackets & le to LED Signal 3921.00 ain Signal, made	housing multi unit nps and signal tr D/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie Lighting Unit. 7842.00 e of tubular steel, o	type for raik ansformer a ol. 1.0) or lat 39.73 type for raik ransformer a (ol.1.0) or lat 39.73 es. Calling Or 39.73 outer diamete	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70 n Signal Unit shall conform
31 32	area TWC 23001/A/N RDSO SPI A31 Descriptic area THR 23001/A/N RDSO SPI A32 Descriptic A33 Descriptic 4.5 mm. h	on:- Non Me     O Aspects. (1     Adv. Alt- S     EC. No. RDS     6.00     on:- Non Me     EE Aspects.     1 Adv. Alt- S     EC. No. RDS     0.01:- Non Me     EE Aspects.     1 Adv. Alt- S     EC. No. RDS     2.00     on:- Calling (2     on 24351(A     2.00     on:- Offset b     orizontal lenge	tallic (FRP) co Complete with and as per SI O/SPN/151/199 Numbers tallic (FRP) co Complete with and as per S O/SPN/151/199 Numbers ON Signal Unit dv) Alt1 suitabl Numbers rackets for Ma oth of pipe 545	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC 97 or latest. 2241.00 t with Brackets & le to LED Signal 3921.00 ain Signal, made	housing multi unit nps and signal tr D/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie Lighting Unit. 7842.00 e of tubular steel, o	type for raik ansformer a ol. 1.0) or lat 39.73 type for raik ransformer a (ol.1.0) or lat 39.73 es. Calling Or 39.73 outer diamete	way signaling suitable for s per RDSO DRG. No. eest and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70 n Signal Unit shall conform 10957.63 er 140 mm, thickness of p
31 32 33	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M RDSO SPI A32 Descriptic RDSO Drg A33 Descriptic 4.5 mm. h post as pe A34 Descriptic Holder) as	on:- Non Me O Aspects. ( A Adv. Alt- S EC. No. RDS 6.00 on:- Non Me EE Aspects. A Adv. Alt- S EC. No. RDS 2.00 on:- Calling ( a no 24351(A 2.00 on:- Offset b orizontal lenger prawing No 2.00 on:- " Supply per Drg. No	tallic (FRP) co Complete with and as per Si O/SPN/151/19 Numbers tallic (FRP) co Complete wi and as per S O/SPN/151/19 Numbers ON Signal Unit dv) Alt1 suitab Numbers rackets for Ma th of pipe 545 o SW/554/G/R Numbers	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC 97 or latest. 2241.00 with Brackets & le to LED Signal 3921.00 ain Signal, made mm & vertical le 17429.00 ype Route Indic 401 suitable for	housing multi unit nps and signal tr D/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie Lighting Unit. 7842.00 e of tubular steel, o ength of pipe 324 r 34858.00 ator - Junction rou	type for raik ansformer a ol. 1.0) or lat 39.73 type for raik ransformer a (ol.1.0) or lat 39.73 es. Calling Or 39.73 outer diamete nm with fixing 39.73 te indicator u	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70 n Signal Unit shall conform 10957.63 er 140 mm, thickness of p arrangement on Main Sig
31 32 33	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M RDSO SPI A32 Descriptic RDSO Drg A33 Descriptic 4.5 mm. h post as pe A34 Descriptic Holder) as	on:- Non Me O Aspects. ( A Adv. Alt- S EC. No. RDS 6.00 on:- Non Me EE Aspects. A Adv. Alt- S EC. No. RDS 2.00 on:- Calling ( a no 24351(A 2.00 on:- Offset b orizontal lenger prawing No 2.00 on:- " Supply per Drg. No	tallic (FRP) co Complete with and as per Si O/SPN/151/19 Numbers tallic (FRP) co Complete wi and as per S O/SPN/151/19 Numbers ON Signal Unit dv) Alt1 suitab Numbers rackets for Ma th of pipe 545 o SW/554/G/R Numbers of Junction ty . RDSO SA 23	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, la PEC. No. RDSC 97 or latest. 2241.00 with Brackets & le to LED Signal 3921.00 ain Signal, made mm & vertical le 17429.00 ype Route Indic 401 suitable for	housing multi unit nps and signal tr J/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie Lighting Unit. 7842.00 e of tubular steel, o ength of pipe 324 r 34858.00 ator - Junction rou LED Signal Lightin	type for raik ansformer a ol. 1.0) or lat 39.73 type for raik ransformer a (ol.1.0) or lat 39.73 es. Calling Or 39.73 outer diamete nm with fixing 39.73 te indicator u	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70 n Signal Unit shall conform 10957.63 er 140 mm, thickness of p arrangement on Main Sig 48707.08 unit 1 way (Without Lense
31 32 33 34	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M RDSO SPI A32 Descriptic RDSO Drg A33 Descriptic 4.5 mm. h post as pe A34 Descriptic Holder) as (Supply of A35 Descriptic Class IS S	on:- Non Me D Aspects. ( A dv. Alt- S EC. No. RDS EC. No. RDS Con:- Non Me EE Aspects. A dv. Alt- S EC. No. RDS 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Supply sper Drg. No LED Unit is r 10.00 con:- "Position con:- No. IS:	tallic (FRP) co Complete with and as per Si O/SPN/151/19 Numbers tallic (FRP) co Complete with and as per S O/SPN/151/19 Numbers ON Signal Unit dv) Alt1 suitabl Numbers rackets for Ma th of pipe 545 o SW/554/G/R Numbers of Junction ty RDSO SA 23 not covered in Numbers 1239 Pt. 1/19	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, lan PEC. No. RDSC 97 or latest. 2241.00 with Brackets & le to LED Signal 3921.00 ain Signal, made mm & vertical len 17429.00 ype Route Indic 401 suitable for this item) " 3776.00	housing multi unit nps and signal tr D/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie Lighting Unit. 7842.00 e of tubular steel, o ength of pipe 324 r 34858.00 ator - Junction rou LED Signal Lightin 37760.00 olete with Post (ma Cover etc as per f	type for raik ansformer a ol. 1.0) or lat 39.73 type for raik ransformer a /ol.1.0) or lat 39.73 es. Calling Or 39.73 buter diamete nm with fixing 39.73 te indicator u g Unit & as If 39.73 de of GI Pipe	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70 n Signal Unit shall conform 10957.63 er 140 mm, thickness of p arrangement on Main Sig 48707.08 unit 1 way (Without Lense RS:S-66/84 amndt-1 or late
31 32 33 34	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M RDSO SPI A32 Descriptic RDSO Drg A33 Descriptic 4.5 mm. h post as pe A34 Descriptic Holder) as (Supply of A35 Descriptic Class IS S	on:- Non Me D Aspects. ( A dv. Alt- S EC. No. RDS EC. No. RDS Con:- Non Me EE Aspects. A dv. Alt- S EC. No. RDS 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Calling ( 2.00 con:- Supply sper Drg. No LED Unit is r 10.00 con:- "Position con:- No. IS:	tallic (FRP) co Complete with and as per Si O/SPN/151/19 Numbers tallic (FRP) co Complete with and as per S O/SPN/151/19 Numbers ON Signal Unit dv) Alt1 suitabl Numbers rackets for Ma th of pipe 545 o SW/554/G/R Numbers of Junction ty RDSO SA 23 not covered in Numbers 1239 Pt. 1/19	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, lan PEC. No. RDSC 97 or latest. 2241.00 with Brackets & le to LED Signal 3921.00 ain Signal, made mm & vertical le 17429.00 ype Route Indic 401 suitable for this item) " 3776.00 Signal Unit Comp 00, Base, Hood,	housing multi unit nps and signal tr D/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie Lighting Unit. 7842.00 e of tubular steel, o ength of pipe 324 r 34858.00 ator - Junction rou LED Signal Lightin 37760.00 olete with Post (ma Cover etc as per f	type for raik ansformer a ol. 1.0) or lat 39.73 type for raik ransformer a /ol.1.0) or lat 39.73 es. Calling Or 39.73 buter diamete nm with fixing 39.73 te indicator u g Unit & as If 39.73 de of GI Pipe	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70 n Signal Unit shall conform 10957.63 er 140 mm, thickness of p arrangement on Main Sig 48707.08 unit 1 way (Without Lense RS:S-66/84 amndt-1 or late 52762.05 e of 80 mm Diameter Medi
	area TWC 23001/A/M RDSO SPI A31 Descriptic area THR 23001/A/M RDSO SPI A32 Descriptic RDSO Drg A33 Descriptic A33 Descriptic A34 Descriptic Holder) as (Supply of A35 Descriptic Class IS S Lighting U A36 Descriptic	on:- Non Me O Aspects. ( A dv. Alt- S EC. No. RDS EC. No. RDS On:- Non Me EE Aspects. A dv. Alt- S EC. No. RDS Con:- Calling ( 2.00 On:- Calling ( 2.00 On:- Calling ( 2.00 On:- Offset b orizontal leng or Drawing No 2.00 On:- TSupply sper Drg. No LED Unit is r 10.00 On:- "Position spec. No. IS: nit. (Supply o 2000.00 On:- ARA T	tallic (FRP) co Complete with and as per SI O/SPN/151/199 Numbers tallic (FRP) co Complete wit and as per S O/SPN/151/199 Numbers O/SPN/151/199 Numbers ON Signal Unit dv) Alt1 suitabl Numbers rackets for Ma oth of pipe 545 o SW/554/G/R Numbers of Junction ty RDSO SA 23- not covered in Numbers 1239 Pt. 1/199 f LED Unit is n Numbers	lour light signal out lenses, lan PEC. No. RDSC 97 or latest. 24640.00 lour light signal thout lenses, lan PEC. No. RDSC 97 or latest. 2241.00 with Brackets & le to LED Signal 3921.00 ain Signal, made mm & vertical le 17429.00 ype Route Indic 401 suitable for this item) " 3776.00 Signal Unit Comp 00, Base, Hood, ot covered in th 60.00 s with links m	housing multi unit nps and signal tr D/SPN/194/2006 (V 147840.00 housing multi unit amps and signal t D/SPN/194/2006 (V 4482.00 & Fixing accessorie Lighting Unit. 7842.00 e of tubular steel, of ength of pipe 324 r 34858.00 ator - Junction rou LED Signal Lightin 37760.00 Dete with Post (ma Cover etc as per f is item) "	type for raik ansformer a ol. 1.0) or lat 39.73 type for raik ransformer a (ol.1.0) or lat 39.73 es. Calling Or 39.73 outer diamete nm with fixing 39.73 te indicator u g Unit & as IF 39.73 de of GI Pipe Org. No. SA-2 39.73	way signaling suitable for s per RDSO DRG. No. est and FRP material as 206576.83 way signaling suitable for as per RDSO DRG. No. est and FRP material as 6262.70 n Signal Unit shall conform 10957.63 er 140 mm, thickness of p arrangement on Main Sig 48707.08 unit 1 way (Without Lense RS:S-66/84 amndt-1 or late 52762.05 e of 80 mm Diameter Medi 23840 suitable for LED Sig

37					s type, as per RDS rew less type, 4-wi			
					(Preferably In Blue,	•	•	• •
20	A38	400.00	Numbers	9.00	3600.00	39.73	5030.28	
38	Descripti	on:- Supply of	End plate for a	above item (37	) 2.5mm/0.091 in th	ick as per site	e requirement.	
20	A39	800.00	Numbers	9.00	7200.00	39.73	10060.56	
39	Descripti	on:- Supply of	End Stopper for	or above item	(37) 10mm/0.0394 i	n width as pe	er site requiremen	t.
	A40	80.00	Metre	94.00	7520.00	39.73	10507.70	
40	-	on:- Supply of error	Carrier Rails fo	or above item	(37) 35mm x 7.5mn	n, 1mm/0.039	) in thickness un-	slotted type
44	A41	4000.00	Numbers	14.00	56000.00	39.73	78248.80	
41	Descripti	on:- Markers s	trip for above i	item (37)				
	A42	14.00	Numbers	73004.00	1022056.00	AT Par	1022056.00	
42	(Single (L		se). Manufacti	ur's certificate	SS 304 of size as in regard to grade	-		
	A43	5.00	Numbers	63420.00	317100.00	AT Par	317100.00	
43	(Half app		actur's certific		SS 304 of size as to grade of stainle			
	A44	24.00	Numbers	7834.00	188016.00	39.73	262714.76	
44	material fo		KGs /bag) for	each electrode	length 3m, including & other accessorie		•	
	A45	60.00	Metre	502.00	30120.00	39.73	42086.68	
45	-	coupling. G.I. p			(Pt.I)-2004 or latest it and contractor sh			
	A46	180.00	Numbers	1580.00	284400.00	39.73	397392.12	
46	Specificat meters str produce v following snap fit co equal to n	ion No. RDSO/ raight length ar ralid IS license coupling arrang pupler with rubb o. of pipes sup	SPN/204/2011 and of size 120 and should be gements shoul per 'O-Ring 2) plied.) DWC p	I or latest anti mm outer die e certified unde d also be sup Spacers 3) Te ipe shall be ma	HDPE Pipe with -rodent & anti-oxid. e,& 103.5 mm inner er ISO 9000 and sh plied with each pipe ees 4) Bend, 5) Enc arked at every 1 mtr easily identified. "	ant and non dia. (The ma all submit co as per the l-cap (The to	flame propagatin anufacturers, sup py of certificate). site requirement. tal quantity of abo	g type in 6 pliers must One of the 1) Suitable ove items is
	A47	24.00	Numbers	4084.00	98016.00	39.73	136957.76	
47		<b>on:-</b> Phenolic la 995 or latest. T			standard size of 1 be supplied	220 X 1220	x 10 mm as per s	spec. No IS
	A48	2.00	Set	380898.00	761796.00	39.73	1064457.55	
48	SPN/208/2	2012 with lates	amendment	. One set con	omplete set suitable sisting 02 Nos of I 2012 clause 10.1 &	Barriers of le		
	A49	4.00	Set	7245.00	28980.00	39.73	40493.75	
49	-	on:- Dual tone oltage as per ci		r with flasher	arrangement 25W	horn, ( Mak	e of any ISI app	roved firm)
E 0	A50	4.00	Set	1514.00	6056.00	39.73	8462.05	
50	Descripti	on:- Road warr	ning Flasher ki	it for LC gate a	s per circuit design			
	A51	2.00	Set	120173.00	240346.00	39.73	335835.47	
51	mechanis		supporting sta		barrier assembly r Mechanical/Electr		-	
	A52	8.00	Numbers	1781.00	14248.00	39.73	19908.73	
52	Descripti		'E' type lock of	complete with	keys as per RDSO			bec. IRS(S)

S.No.	ltem Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedu	le B-Execu	tion Items	•		•		26175340.24	
	B1	1.00	Job	476922.00	476922.00	39.73	666403.11	
1	supply ite installation required of pipes / Ci contractor networkin Engineer- 28.08.201 Redundar Installed H (Godrej w Terminatii including lacing of w equipmen included f supply boo installed H extended, such as	m in schedule n, wiring, testii CC/ masonry ables, termina r for the equ g of built in El in-charge. No 4. Installation ncy. Any Equi by the Contra vork station on of indoor/ I alterations/ m wiring shall be its/ materials/ replacement of pards with req by the contra from Power 1X16 sq mm	A' including t ing and commis works, fixing/ tition of cables upments supp Data loggers of te: Installation , wiring, progra pments/cards/l ctor. Note:- Th table) for kee PIJF cables in odifications as done neatly w simulation bo of modules/ ca juired capacity ctor. 230V sup room / relay ro wires, cables	ransportation ssioning, grouti placing/ laying with lugs/ con lied vide Item f all the station shall be compl amming, testin Modules requi is also include ping VDU an relay room on required at sit ith help of dres ards required ards/ LEDs/ ec plugs, socket oply shall be a com then same lugs, RCC/G	esting and commis from Consignee's of ng, cutting of floors of insulated ladd nectors, painting,/ of Schedule ""A is to monitor the sy y to RDSO Technic g and commission red for Hot stand- s supply of Two n d one no Godrej relays, tag blocks, e. Soldering to be ssing thread / plast for testing shall b quipments going d s, surge & lightnin arranged by Railwa e shall be extended I pipes, insulated	depot to site s, walls, refill ers/ casing- lettering are "" of this c stem to any cal Advisory ing of Opera by with Rec os. of comp make ope CT racks as done at all r ic self lock s e supplied / efective dur g protection ays. In case d by the cor ladders etc	. The works and r ing of the same, re capping/ cable tra e to be provided/ of ontract. This also other places where Note No STE/E/TA ator VDU in Hot st Jundancy shall be osite computer & p rator chair model s per approved wir equired terminatio trip of suitable size (fabricated by co- ing testing. Necess boxes shall be s e supplies are required tractor with his ow. After ST/LT testi	naterials for e-plastering, lys/ RCC/GI done by the covers the e desired by N/3012 dtd. and-by with supplied & printer table PCH7001. ing diagram n. Dressing/ e. The tools/ ntactor. this sary power upplied and juired to be vn materials ng, Factory
					system should be Engineer-in-charge		while submitting t	o Railways,
	B2	30.00	Man-Days	972.00	29160.00	39.73	40745.27	
2		nooting of El s	ystem. (Hard c	opies of trainin	eer for installatio g material/ course 45798.00	modules to b	e given to each pa	articipant).
3	Descripti way/ARA	terminals /Sc	on of Cable Te rew less conne	ectors, Tag blo	ks Assembly comp bocks & other nece the instruction of F	lete includin ssary acces	sories etc. The wo	caffolding, 8
	B4	1.00	Numbers	17948.00	17948.00	39.73	25078.74	
4	using Co NETWOR communic	ntractors own	n wiring & fi e, networking on nannel for networking of the second	xing materials of data logger,	missioning of Data as per following installation of FEF arranged by Railw	g configura P & Fault dia	tion. (It includes gnosis system). T	loading of he requisite
	B5	11.00	Each	778.00	8558.00	39.73	11958.09	
5	provision includes f	of common Bi abrication of	uzzer & indicat	ion at ASM Ro allation of FAC	ssioning of Fuse cl om & ESM Duty Re CS at Station/ LC o	oom and pai	nting of fuse detai	ls. This also
	B6	1.00	Numbers	121931.00	121931.00	39.73	170374.19	
6	Descripti amendme and/or 60 plates sha specified s	ion:- Supply ents. The basic V/24V/12V DC all be provide shall be provide	and installatio c detector unit C as ordered by ed. For additio led with + 25%	n of Earth L shall comprise purchaser. If nal requireme and - 10% tole	eakage Detector of 12 channels, fo the detector is req nt add on /expend erance.	as per RD or use on sig uired for les dable cabine	SO/SPN/256/2002 Inaling circuits of 1 s number of chann et may be used.	10V AC/DC iels, dummy
	B7	1.00	Numbers	1234.00	1234.00	39.73	1724.27	
7	glass fron All materi	t and padlock al i.e. teakwoo	ing and sealing od, handle, hin	g arrangement ges, glass she	x 450 x 250 x 150 s per std practice. et of 3 mm thick to Engineer in - chargo	Pad lock to be supplie	be supplied by the	e contractor.
	B8	1.00	Numbers	90897.00	90897.00	39.73	127010.38	
								<u>.</u>

I										
8	-		-				his includes power			
			•			-	materials and fabr			
							ets or any standard			
	connection	ns suitable fo	r 32 A. Wiring	to be done of	considering site re-	quirement, c	depending upon th	e load with		
	suitable w	vires, lugs & g	lands as per in	structions of E	Engineer-in-charge	. The work i	ncludes installation	of Thermo		
	flasher rel	ay, ELD's, fixi	ng & wiring of a	change over sv	witch (program swi	tch) for sele	ction of DG set sup	ply (DG1 &		
	DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item als									
	includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay									
	room/power room etc. Any masonry work required will be carried out by contactors own material. "									
	B9	10.00		3531.00	35310.00	39.73	49338.66			
			Sqm							
	-		-				oing S&T equipme			
9							as approved by			
-							ls etc. Table for ke			
	counter re	esetting box ar	nd block instrur	nents etc. can	also be go fabricat	ed under thi	is item as per the d	esign given		
	by engine	er in charge.								
	B10	1.00	Numbers	285770.00	285770.00	39.73	399306.42			
	-							rm Sustam		
	-			-	-		Detection and Ala	-		
	. ,	•	•				o detect fire/fire lik			
							tions. It should be			
							uired. It shall have			
10							splaying current st			
	-				• •		Smoke multi sense			
							ditioned rooms. 4.I			
							e for cable trays an			
							Oil Storage rooms			
	more thar	n one control	panels are pro	ovided, then th	ney should be con	nected to a	central control pa	nel. b) The		
	number of	f detection poi	nts/ sensors ar	nd length of LH	S cable shall be de	ecided as pe	r site requirement.			
	B11	1.00	Numbers	9655.00	9655.00	39.73	13490.93			
11	Descripti	on:- Supply 8	s installation o	f Test board (	I FD Pin tool type	e) for relay	Room as per as p	per Dra No		
	RST/C/10					e) for relay	nooni as pei as p	Der Dig No		
	RS1/0/10	1								
	B12	15.00	KVA	692.00	10380.00	39.73	14503.97			
	Description	on:- Installatio	on of Diesel ger	nerator set. Th	is includes Casting	of vibration	free foundation, in	stallation of		
12	-		-				ver switch and wiri			
12							s includes supply o			
							f this item may be i	•		
	KVA)					,	,			
	, В13	11.00	Numbers	25080.00	275880.00	AT Par	275880.00			
	-									
		-					nded sleepers at po	•		
							on of rails used. Ite			
							et, fixing ground			
					•		ndle. The item also			
	(i)Complet	te material for	installation like	e ground-conn	ections, switch exte	ension brack	ets, point insulation	n material, I		
13	pipes, wiri	ng materials,	various fixing n	uts & bolts incl	uding castle nuts,	spring washe	ers (ii) All smithy & f	fitting works		
	required a	at site for comp	olete installatior	n. (iii) Installatio	on of gauge tie pla	te & providin	g insulation for gau	ige tie plate		
	(Insulatior	n in William Str	retcher Bar will	be Provide by	Railways). (iv) Wir	ing inside th	e point machine, in	sertion and		
	terminatio	n of tail cable	in point machin	ne and junction	boxes / location b	ox /cable hu	t as per extent prac	ctice on WR		
	and the in	struction of Ra	ailway Enginee	r at site. (v) Su	pply and fixing of s	suitable size	GI pipes with flang	e for taking		
	cable into	point machin	e. Note ; The g	ground connec	tions shall be suita	able to the F	oint Machines as s	specified by		
	Engineer-i	in-charge and	shall be suitab	le to the point	lay out i.e. 60 Kg.	/ 52 Kg / 90	R as per yard layou	ut. Electrical		
	Point Mac	hine and M-6	/ Screw less te	rminals will be	supplied by Railwa	ys / covered	l in Schedule separ	ately "		
	B14	8.00	Numbers	1427.00	11416.00	39.73	15951.58			
1.4										
14	-	-	-		vi onice.All materia	a required v	vill be supplied by	contractor.		
	(Supply of	KLCH relays	covered in Sch	edule A)	1					
	D15	10.00	Per	90.00	800.00	20.72	1117 04			
	B15	10.00	Telephone	80.00	800.00	39.73	1117.84			
15	Descripti	on:- Wiring in		aneto / DTM	telephone in AS	M office at	locations, Relay F	Room Point		
1	-	-	-	-			Engineer-In-Charg			
			ions and siding		iocations as per in	311 40110113 01		je ioi trainc		
	purpose.			- / <del>-</del>	·	<b>-</b>				
	B16	10.00	Numbers	6477.00	64770.00	39.73	90503.12			
	Description	on:- Excavatio	on and Casting	of foundation	for main signal pos	t as per CST	E/3122 (WR) with	contractor's		
16	own mate	rials including	cement and ar	nchor bolts of s	standard size. The	required sca	affolding Ferma etc	for Casting		
					r at his own cost.		-	0		
	<u> </u>									

	B17	2.00	Numbers	2836.00	5672.00	39.73	7925.49	
	Descripti	on:- Erection of	f CLS Post wit	h base and s	ignal unit on top o	or on OFF set	Bracket, fixing of f	ront and
	0	0,	0 0				's own brackets a	0
17							ny. The work shall ince platform as pe	
							d by Site In charge	
		-		oracket with j	unction type route	indicator 1/2/3	3 on multilamp lar	np route
		mounted on sig						
	B18	8.00	Numbers	1922.00	15376.00	39.73	21484.88	
	-				•		Bracket, fixing of f 's own brackets a	
18	-	•	• •	•			ny. The work shall	-
	as per ins	tructions of Rly	engineer at sit	e. It also inclu	des provision & fix	ing of maintena	ince platform as pe	er design
		Engineer -In-Cha Inal unit mounte				I post if require	d by Site In charge	e 2/3/4
	B19	10.00	Numbers	1075.00	10750.00	39.73	15020.98	
							186), 'A' Marker	(Dra No
19			•	•		•	), Arrow Marker (	
	CSTE/618	3), 'G' Marker	(Drg No. CSTI	E/6184), 'C' N	larker (Drg No. C	STE/6185). ma	rker disk on signal	
		I	· · ·		all be supplied by			
00	B20	80.00	Numbers	300.00	24000.00	39.73	33535.20	<b>.</b>
20	-	-	-		elays for GPR Cil by the contactor.	rcuit in appara	tus case as per S	Standard
	B21	2.00	Numbers	2043.00	4086.00	39.73	5709.37	
							n includes fixing of	f Co- On
21							y bracket & fixing i	
	etc. by the	e contactor. The	item also inclu				On signal /'A' sign/	
		r standard pract	ice.					
	B22	10.00	Numbers	4558.00	45580.00	39.73	63688.93	
22	-		-		-		STE/6090 with Cor scaffolding, Ferma	
					ontractor at his ow		scanololing, renna	a etc for
	B23	10.00	Numbers	1564.00	15640.00	39.73	21853.77	
23	Descripti	on:- Erection of	Position Light	Shunt signal	with Base, Post, Si	gnal unit and fi	xing of Number Pla	ates. The
	work shal	be done as per	instructions o	f Rly engineer	at site.			
	B24	6000.00	Numbers	11.00	66000.00	39.73	92221.80	
24	-	-				-	nolic laminated sh	
		able conductor e		olts. This inclu	des provision of tv	vo additional ho	oles on the board	on either
	B25	80.00	Numbers	361.00	28880.00	39.73	40354.02	
25							ted on both side a	along the
	-				014/00/CC4 or late			U
	B26	1600.00	Numbers	331.00	529600.00	39.73	740010.08	
26	-					f 150 mm inter	nal dia (1 meter +	1 meter
		g with collars as	-					
07	B27	800.00	Numbers	634.00	507200.00	39.73	708710.56	1 1: (4
27	-				opes & collars of 3 458/2003 of NP ty		ia & 250 mm interr	nai dia (1
	B28	1500.00	cum	241.00	361500.00	39.73	505123.95	
				1			to 0.6 Mtrs wide a	and back
28	filling afte	r placing of DW	C/ RCC/GI pip	e. (Placing of	DWC/RCC/GI pipe	e coverd separ	ately).The ballast o	disturbed
							d road tarred imm	
	For track		10.CSTE/3644	Pg.7 of 11 an	d for Road Crossii	ng, Drg. No. Ce	STE/3644 Pg. 5 of	11 are to
	B29	500.00	Metre	1057.00	528500.00	39.73	738473.05	

Closing Date/Time: 14/04/2023 15:00

29									
20	-				out damage of su				
				•	minimum 1200 m	-		-	
		0	0	0	ank of the road. T	0			
	-				pipe/ GI pipes co		-	-	
					ontactor shall pro				
	adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that								
	not get da	mage due to r	ough handling	& pressure on	cable. "				
	B30	1140.00	Metre	26.00	29640.00	39.73	41415.97		
30	Description	on:- Placing o	f DWC/BCC/G	l pipes along v	vith collars in trenc	hes at place	s of track and roa	d crossings	
	-	uttings etc.		pipee along t		noo at place		a orocorrigo,	
		<u> </u>	Matra	0.00	204000.00	00.70	536563.20		
	B31	48000.00	Metre	8.00	384000.00	39.73			
	-				/ pairs/ quads in tr				
	-				crossings & road of	-			
31		•		•	ntifiable material o		-		
					fter its laying by				
					port of each testi	ng). Length	of the cable laid i	ncludes the	
	length of t	he cable colle	d for terminatio	n purposes.					
	B32	6000.00	Per	2.00	12000.00	39.73	16767.60		
	002	0000.00	Conductor	2.00	12000.00	39.75	10707.00		
20	Descripti	on:- Terminat	tion of cable	cores on ARA	terminal/fuse blo	ocks, 8 way	terminals block/	Screw less	
32	-				n rack. This inclue				
		•••			s per location plar			•	
		-	dressing of Cat				,		
	B33	1.00	Numbers	10989.00	10989.00	39.73	15354.93		
33	-				per instruction of S	-		-	
		-			the cable pit with s	stones and p	providing brick ma	sonry on all	
	four sides	of the cable p	it and plasterin	g thereafter.				-	
	B34	14.00	Numbers	6053.00	84742.00	39.73	118410.00		
	Descripti	on:- Excavatio	on and Castin	n of Apparatus	Case foundation	with contrac	rtor's own materia	uls including	
34	-				red scaffolding Fe			-	
					le Case as per Dr				
	B35	5.00	Numbers	4621.00	23105.00	39.73	32284.62		
35	<b>Description:-</b> Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have								
				-	-		-		
	to be brou	ght by the cor	ntractor at his o	wn cost Half	Case as per Drg N	No SK 747or	CSTE/5074 or SS	Location	
	B36	1.00	cum	3188.00	3188.00	39.73	4454.59		
00	Descripti	on:- Cement	concrete work	for miscellane	ous items in the	ratio 1:3:	6 . Item includes	excavation,	
36	ramming.	curing and p	lastering with	cement & sar	nd mixture (aggre	aate not ex	ceeding 3.8 cm.)	(Aggregate	
	ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor). (Unit may be read as Per Cu. Mtr.)								
-	B37	1.00	cum	1749.00	1749.00	39.73	2443.88		
07	-	-			ement and mortal		-		
37					tractor's owned cl		· •		
		-	nerever require	d. Bricks sand	and cement to be	e supplied by	the contractor. (I	Jnit may be	
	read as Pe	er Cu. Mtr.)							
	B38	14.00	Numbers	913.00	12782.00	39.73	17860.29		
	Description	on:- Installatio	on of Apparatus	Cases with m	iniature 'E' type loo	k on CC fou	ndation. This inclu	des fillina of	
38	-				ering on top of the			-	
		Single Case		and and place	ing on top of the				
	-		Niccosta a con	550.00	0700.00	00.70	0004.40		
	B39	5.00	Numbers	556.00	2780.00	39.73	3884.49	I	
39	-				iniature 'E' type loo			-	
	location for	oundations wit	th river bed sa	and and plaste	ering on top of the	e sand. 'E' 1	Fype lock will be	provided by	
	Railway	Half Case							
	B40	14.00	Numbers	2060.00	28840.00	39.73	40298.13		
					inated sheet of siz				
40									
10			•	• •	f PVC coated strir	•			
					one as per drg an		ent sinnlar to SK /	oວ-1/∠. With	
	-				at site Single Ca				
	B41	5.00	Numbers	601.00	3005.00	39.73	4198.89		

41	<b>Description:-</b> Fabrication and fixing of phenolic laminated sheet of size 10mm thick in location box by providin all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable suppo with contractor's own materials. The work shall be done as per drg and arrangement similar to SK 783-1/2. will latest alterations & as per instructions of Rly engineer at site Half Case
	B42 24.00 Numbers 1259.00 30216.00 39.73 42220.82
42	Description:-Installation of Maintenance free Earth Electrode for Maintenance free earth spec or RDSO/SPN/197/2008
	B43 1.00 Lot 17628.00 17628.00 39.73 24631.60
43	<b>Description:-</b> "Preparation of cable route plan, cable coreage plan, location particulars, Cable termination race particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count shee and any other drawing in AutoCAD in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alterations/corrections, any. The contractor shall incorporate Railway's alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways along with CD & 4 sets of final approved drawings. The includes submission of final cable route plan as per laid cable duly measured at every 30m clearly indicatin distance of laid cable from fixed point of reference & indicating all track crossings and tail cables. This als includes designing of cable coreage plan based upon I.P in consultation with engineer-in-charge. For small/medium yards "
	B44   48.00   Per Detection Point (DP)   418511.21   20088538.08   AT Par   20088538.08
44	<b>Description:</b> "Supply, installation (indoor and outdoor), Designing, testing and commissioning of Digital Ax Counter, MULTI section type, for monitoring 20 track sections (in dual mode) (Refer SIP for further details equipped for 48 DPs complete with trackside electronics with housing units, track clearance relays, reset relay rail contacts, reset boxes, vital relays, detection points, deflector plates, LV boxes, etc. as per the requirement a site, as per RDSO Specification no. RDSO/SPN/176/2013(Ver.3) or latest. Note:- (1) This includes supply of 1 percent spare( rounded off to next higher number) of each item of the supplied quantities except mother board cabinet. (2) It includes MSDAC tool kit-1set consisting of (Marking Zig., Digital meter Fluke Model no. 289 of similar, Torque Wrinch, Required Spanners, Screw Driver Set, and any other items required in Tool kit suitable for maintenance of supplied MSDAC) (3) Digital Axle Counter, Multi section type will be installed, wired, tested an commissioned by OEMs Engineer as per guidelines issued by RDSO. The Pre- Commissioning checklist issue b RDSO for Digital Axle Counter, Multi section type will be installed, wired, tested an commissioned by approved vendor of RDSO i.e., by OEM. (4) The items also include installation of track device rail contact) including digging of trench, track crossing, laying of Double walled anti rodent corrugated pipe frof track device to location box/DP and making its terminations, fixing of deflector plates. (Double walled anti roder corrugated pipe made up of High Density Polyethylene of suitable diameter and all other accessories as per sit requirement to be supplied by the firm). This includes provision of puff seal in HDPE pipe with contractor's ow material. This also includes installation of EJB / Track side Electronics inside the track side housing (This housin will be supplied and installed on foundation by the contractor with his own material) including supply of wires an other accessories. This includes painting and writing
	B45   2.00   Per Gate   41068.00   82136.00   39.73   114768.63
45	<b>Description:-</b> Installation, testing and commissioning of electrically operated lifting barrier, complete with Castin of cement concrete foundation for pedestal and boom rest post, cabling, power supply connection & wiring wit complete outdoor work as per approved drawing, wiring etc.
	B46 2.00 Numbers 13451.00 26902.00 39.73 37590.16
46	<b>Description:</b> Installation & commissioning of Sliding booms with E type lock and KLCR. This includes wiring a KLCR, running of cables, necessary painting & transportation of materials from store to site. All material require to commissioning of slide booms on gate will be supplied by the contactor.
	B47   2.00   Per Gate   25822.00   51644.00   39.73   72162.16
47	<b>Description:</b> - Casting of CC foundations in the ratio of 1:3:6 for sliding boom as per Drg. Minimum 10 Nos of foundation per set shall be cast using standard size holding down bolts & nuts for erection. Item include excavation, ramming, curing and plastering 1:4 cement and sand mixture. Aggregate, cement, sand and holdin down bolts & nuts to be supplied by the contactor.

No item break up added

## 4. ELIGIBILITY CONDITIONS

#### Standard Financial Criteria

S.No.	Description	Confirmation Required		Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet	No	No	Allowed (Mandatory)

#### Submission of Document Verification Certificate

S.No.		Confirmation Required		Documents Uploading
4	Please submit a certificate in the prescribed format (please download the format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certificatio)	No	No	Allowed (Mandatory)

### Standard Technical Criteria

S.No.	Description	Confirmation Required		Documents Uploading
1	The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or One similar work each costing not less than the amount equal to 60% of advertised value of the tender. NOTE: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered atleast 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received and copy of final/last bill paid by company in support of above work experience certificate.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Any Relay Interlocking (RI) or Electronic Interlocking (EI) or Color Light Signaling using Lever Frame (CLS) or Automatic Block Signalling (ABS) or Intermediate Block Signalling (IBS) work involving Indoor and Outdoor work (Cable laying & termination). (also refer tender document attached)	No	No	Not Allowed

## 5. COMPLIANCE

### Check Lst

S.No.		Confirmation Required		Documents Uploading
1	As per Tender document attached.	No	No	Not Allowed

**Commercial-Compliance** 

S.No.		Confirmation Required		Documents Uploading
1	As per Tender document attached.	No	No	Allowed (Mandatory)
2	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.		Voc	Allowed (Optional)

### **General Instructions**

S.No.		Confirmation Required		Documents Uploading
1	As per Tender document attached.	No	No	Not Allowed

#### **Special Conditions**

•	S.No.		Confirmation Required		Documents Uploading
ŀ	1	As per Tender document attached.	No	No	Not Allowed

#### Undertakings

S.No	. Description	Confirmation Required		Documents Uploading
1	As per Tender document attached.	No	No	Not Allowed

### 6. Documents attached with tender

S.No.	Document Name	Document Description
1	policyguidelinesforsigworks10-11-22.pdf	policy guidelines for works
2	ModificationtoPolicyguidelinesforsignalingworks.pdf	policy guideline2
3	ManualResettingofSiemensMSDACthroughVDU31.05.22_Downloaded.pdf	resetting of MSDAC
4	ApprovedSIPofKAPADVANJ.pdf	SIP OF KAPADVANJ
5	TenderDocument-22-23-47.pdf	Tender Document

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: ABHINAV YADAV

**Designation : DSTE/NORTH/BRC**