Tender No: SDSTE-GSU-RNGR-MSAE Closing Date/Time: 22/05/2023 15:00

DRM acting for and on behalf of The President of India invites E-Tenders against Tender No **SDSTE-GSU-RNGR-MSAE** Closing Date/Time 22/05/2023 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		st in connection with construction of (ER) Station of HWH - BWN Chord L	_
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	22/05/2023 15:00	Date Time Of Uploading Tender	26/04/2023 18:30
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	196557426.59	Tendering Section	S AND T
Bidding Style	Single Rate for Each Schedule Item	Bidding Unit	
Earnest Money (Rs.)	1132800.00	Validity of Offer (Days)	120
Tender Doc. Cost (Rs.)	0.00	Period of Completion	270 Days
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	108/05/2023	Are Joint Venture (JV) firms allowed to bid	Yes
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
line with		(SER) to Mas			h construction of o	•	196557426.59	
1	1	502.00	Per Functional Vital Bit		31427298.36	AT Par	31427298.36	Above/ Below/Par
	-	ion:- Design, in the docume		and supply of E	Electronic Interloc	king (EI) s	ystem. Complete d	escription is
	2	1.00	Station	648703.52	648703.52	AT Par	648703.52	Above/ Below/Par
							El System with 'H	
2	architectu the site, e installatio associate attached commissi	are as supplied erection and gon and wiring or do accessories with tender do oning by Selemissioning of E	d above item-1 routing of EI R f Microprocesse to make conocument (ii) Cotion Table an	00101/2/3. It in elay Racks, fixion equipments, inplete El syste contractor has to d Square Sheet	ncludes transportating and wiring of a interface equipment to be function arrange simulated for each Signal	ation of mat all the interfacents, power nal. Note: (or/ simulation ling function	El System with 'herial from consigne acing relays (Vital 8 supply equipments i) Technical Requipments for testing panel for n.(iii) Installation, we nes/ directives issu	e's depot to k Non-Vital), and all other rements are testing and iring, testing
2	architectu the site, e installatio associate attached commissi and comm	are as supplied erection and gon and wiring or do accessories with tender do oning by Selemissioning of E	d above item-1 routing of EI R f Microprocesse to make conocument (ii) Cotion Table an	00101/2/3. It in elay Racks, fixion equipments, inplete El syste contractor has to d Square Sheet	ncludes transportating and wiring of a interface equipment to be function arrange simulated for each Signal	ation of mat all the interfacents, power nal. Note: (or/ simulation ling function	erial from consigned acing relays (Vital & supply equipments i) Technical Requipon testing panel for n.(iii) Installation, whee/ directives issu	e's depot to k Non-Vital), and all other rements are testing and iring, testing
2	architectu the site, e installatio associate attached commissi and comr from time 3 Descripti functiona Laser Prii HDD and as mentici	are as supplied erection and gin and wiring or discressories with tender do oning by Selemissioning of Eto time. 1.00 ion:- Supply of I testing, diagrater (Only brains 15 inches Leibned above and serection and	d above item-1 routing of EI R f Microprocesse to make con comment (ii) Co ction Table an El system will b Numbers f portable worl nostics and tro nded). The min D display of sta d compatible p	00101/2/3. It in elay Racks, fixing or equipments, inplete El system ontractor has to ad Square Sheele done by OEM 90229.41 It is station to run suble shooting animum configura andard make suports to connect	ncludes transportation and wiring of a interface equipment of the function of arrange simulated for each Signal after following all along with El corand commissionination of workstation of as Dell/ HP/Le	ation of matall the interfacents, power nal. Note: (or/ simulation ling function) AT Par AT Par	erial from consigned acing relays (Vital & supply equipments i) Technical Requipon testing panel for n.(iii) Installation, whee/ directives issu	e's depot to Non-Vital), and all other rements are testing and iring, testing ed by RDSO Above/Below/Parmulation and es supply of RAM,500 GB ed softwares

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4	of free m agreemer	aintenance pe nt, as per the l are to be main	riod as per co atest guideline tained as per	nditions of cont es of PCSTE, ar latest circulars	ract, as per the c nd provision ment prevailing in the	letails given ioned in Sig Division. D	ne years from the d in special condition nal Engineering Ma uring maintenance	n of contract anual. All the at least two
	separatel	y and will not	restrict closure	e of contract. S		arantee will	IOTE-This item will be submitted for the section.	
	5	20.00	Man-Days	1236.34	24726.80	AT Par	24726.80	Above/ Below/Par
5	making c	hanges in app	lication data	and logics by r	ailway officials to	suit yard n	ning, Testing, troub nodification done a ven to each particip	leshooting & t later stage
	6	1.00	Numbers	319572.79	319572.79	AT Par	319572.79	Above/ Below/Par
6	control te	erminal/ mainte	nance termina	al as per RDS0	_	O/SPN/192/	ded fan Iess PC w 2019 Ver. 2 or late on : Consignee	vith VDU for
	7	1.00	Numbers	135852.40	135852.40	AT Par	135852.40	Above/ Below/Par
7	input, SM RDSO / F other rep El. Note: railway st	IF battery, batt PE / SPEC / Pouted brand, ba - Manufacturi	ery rack and a S 0023 -2001 ttery make: - E ng date of up e covered und	accessories, cap (REV - 1, AME Exide / Standard s & battery set er (3) years wa	pable to provide b 0 - 3) OR LATES d / Amaron / Amar should be of old	pack-up for to Fof Make-Stra Raja or si er than 6 n	em, with isolation tra 3 hrs. as per RDSC Su-KAM/ Luminous milar for the backup nonths at the time certification regard	SPEC. NO. /Microtek or of VDUs of of supply to
	8	3.00	Set	23869.58	71608.74	AT Par	71608.74	Above/ Below/Par
8	revolving 1650x900	bearing series 0x728 mm with	low back-floa 3 drawers or	ting chair with r ne side locker- (ormal arms cush	ioned chair- chair seat &	each set consist of 01 Nos. (ii) Executi back cushion with gnee	ve table size
	9	1.00	Per SIP	29139.58	29139.58	AT Par	29139.58	Above/ Below/Par
9	soft copy two copi suggeste	will be submitt es of prints d/proposed by	ed to Railway will be subn the Railways	for checking. If nitted for adva	alterations are suance approval abe submitted for	iggested /pr ifter carryir	OCAD. Two copies of oposed by Railway on all the all rams mentioned all	s then again terations as
	10	1.00	Numbers	635486.70	635486.70	AT Par	635486.70	Above/ Below/Par
10	Cosmos of system as ASS + AS (iii) shutter "SLAT" wounders includes s	or Similar, news per approved SS 12 mm MDF ers: 18mm M rall. The work of embedded	modular con drawing (atta (ii) structure DF (iv) prope space will be PC, 2 No. of hairs (Godrej	trol desk for proched with tender powder coated recooling arrang provided for standard the following and the following provided for standard for standard for standard for standard for standard for standard for provided for standard for sta	ovision of two nur er document) This d aluminium sturd gement for CPR orage in FLAT sy eir power supply	mbers of 42 item includ y structure cabinet (v) vstem, this arrangeme	pyrotech workspa 2/55/65 inch monito es: (i) Desktop mad and extreme side a 2mm thick extrude includes space for nt with proper ven ngineer in charge) f	ce Make or rs in "SLAT" de of 12 mm esthetic legs d aluminium housing two tilation. This
11	11	20.00	Numbers	2862.11	57242.20	AT Par	57242.20	Above/ Below/Par
11	Descripti	ion:- Supply of	Office Chair n	nake Godrej CH	-7B or similar of r	eputed brar	d. Inspection: Cons	
10	12	6.00	Numbers	7975.99	47855.94	AT Par	47855.94	Above/ Below/Par
12	-	ion:- Supply of	Office Revolv	ing Chair Godre	ej Make Model No	o.9U02R Bra	avo or Similar of rep	outed brand.
	13	8.00	Numbers	13067.13	104537.04	AT Par	104537.04	Above/ Below/Par
13	right hand		rown with dup		•		nand side and one I cmX68cmX 75cm)	ocker on the

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	14	6.00	Numbers	16896.24	101377.44	AT Par	101377.44	Above/ Below/Par
14	_				djustable shelf Siz ilar of reputed bra		height, 915 mm wi on: Consignee	dth and 485
4.5	15	2.00	Numbers	35887.81	71775.62	AT Par	71775.62	Above/ Below/Par
15					nt table complete site. Inspection: C		proved drawing. It i	ncludes any
	16	8.00	Numbers	230100.00	1840800.00	AT Par	1840800.00	Above/ Below/Par
16	(Embedd O-Ring D 110VDC Isolated Board/ Frequired	ed PC) with Inp Diode Module v bus. 2.Isolated DC-DC Convertiont Panel Pov	out and Output with Potential d Inverters (M rters-2 Nos. I wer Connector uits. SS Rack	Redundancy A Free-1 No con laster/Slave) -2 nput:110VDC, s Inverter Auto Dimension:- 1.3	Arrangement and I stacts (PFC) for to P. Nos. Input: 110 Output:24VDC/10 Ochange Over S	Hot Pluggab wo 110VDC VDC, Outpu A.4.3U SS witch and a	DU (42" - 85") and I le Modules. Consis s Sources from IPS ut: 120VAC/220VAC Rack with back P till required over Sv s. Smm ± 10%), 2.1	ting of: Inpur 5 and Single 5 500VA. 3 anel Mother vitch and al
	17	3.00	Numbers	484693.30	1454079.90	AT Par	1454079.90	Above/ Below/Par
17	all the it drawing/e commerce networkin networkin station ta PCH7001 per list ci RDSO/ Z station au reports for Datalogge	tems required extension of po- ial power supping of Data loggering of Data loggering of Data loggering or similar. Not reculated vide Ronal Railway. (and at a central or maintenance er to be installed	for complete ower supply up by monitoring a er. It also inclu- er. This also in for keeping pr ee: (1) Total nu BDSO Letter N 2) Exceptional I location in C e, safety and of ed at Site by O	indoor relay to to Data Loggarrangement & des supply of le locuses or modulumbers of relays o.STS/E/Data le reports are to ontrol Room. Experations as per EM. Manufactu	room wiring from the control of the	n data log ay room do sets, ELD, M and other lite compute one number ing function 2011 or late a computer re should b es of Railwa	O or latest. It included ger to relay rack por lock checking a IPS, UFSBI, BI, interfacing cards, if and printer table (er Godrej operator s/ gears required to est guidelines of Raconnected to datale able to generate y Board/RDSO/ Zo and printer & other	tag blocks, rrangement, erlinking and required for Godrej work chair Model be wired as illway Board/ogger at the exceptional nal Railway. De of current items.
	18	3.00	Set	33605.31	100815.93	AT Par	100815.93	Above/ Below/Par
18	latest with		p of 80AH cap			-	. IRS-S-93/ 96B wit I from RDSO's appr	
	19	3.00	Set	25596.90	76790.70	AT Par	76790.70	Above/ Below/Par
19	data logo compatib	ger system of ility 1TUV 21, \	other stations V2, V22 BITS,	s. Each set sh V23V23A, B V	nall comprise of	one pair of 2 BITS V42	ssing unit rack for n modem and shal t, V42 BITS, suitab	l have data
	20	3.00	Numbers	28391.68	85175.04	AT Par	85175.04	Above/ Below/Par
		İ					85175.04	

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	room wir includes sets, ELE power su relays at No.STS/E data logg computer should be Railway communi EI Huts a proper capping, (circulate simulation railway e Payment logger in	ital and 32 ana ing from data relay room do D, IPS, UFSBI, upply monitorin nd other sign. E/Data logger of ger includes extra connected to e able to gener Board/ RDSO/ication channel and it will be easing and cap nuts, bolts etca by RDSO) in test and put engineer (consfor this item vistandard RDSO)	log inputs as plogger to relay or lock checking or lock checking interlinking g, door-locking alling function ltd.12.09.20 11 thraction of data datalogger at a cate exceptions Zonal Railwa (Quad/ OFC oxtended by cooping. The corp. The final cooping in network, valuation) & Oivill be released of format, joint	rack tag blocking arrangement and networking arrangement s/gears required or latest guide a report from the station and reports for may. Datalogger cable) will be arractor up to lateractor will suppressioning will representative the station and reports for may. Datalogger cable) will be arractor up to lateractor will suppressioning will representative the station statemed only after subsignature of value.	No. IRS (S) 99/2 is, drawing/extensit, commercial por gof Data logger. I etc. will be supplied to be wired blines of Railway E Control room. Excel at a central local aintenance, safety to be installed a ranged /provided ocation of data louply all the mater will be done after the Datalogger to be before simulation of duly solidation statement.	1006 or lates sion of powwer supply All material lied by contast per list Board/ RDS0 pertional repution in Contast Site by Coby Rly in SM gger by using like CA filling up on the validation of validation of the	ased Data Logger at It cover complete er supply up to Da monitoring arrange required for wiring aractor. Note: Total circulated vide FD/Zonal Railway. Noorts are to be ger trol Room. Datalog tions as per latest DEM. For networking CAT-5/6 telecon cab ff Pre- Commission and commission and commission and commission commissioning check gineer will also impaction: Consignee.	indoor relay ta Logger. It ement & DG, networking, numbers of RDSO Letter letworking of herated by a ger software guidelines of ng, required OFC/AUTO/m cable with le, casing & ing checklist oned before (open line), n and date. cklist of data
21	21	100.00	Numbers	3685.53	368553.00	AT Par	368553.00	Above/ Below/Par
21	plate), co	nnectors and r	etaining clips	etc and conform	ning to BRS- 930 a	and RDSO	omplete with plug Specn.No.IRS: S-34 ection authority:- RI	& S-23 with
	22	100.00	Numbers	3791.34	379134.00	AT Par	379134.00	Above/ Below/Par
22	connecto	rs and retaining	g clips etc and	conforming to I	BRS- 930 and RD	SO Specn.N	te with plug board No. IRS: S-34 & S-2 ". Inspection autho	3 with Amdt.
	23	100.00	Numbers	3938.00	393800.00	AT Par	393800.00	Above/ Below/Par
23	plate), co	nnectors and	retaining clips	etc. and confor		and RDSO	complete with plug Specn.No. IRS: 5-3 DSO	
			Numboro	3938.25	393825.00	AT Par	393825.00	
	24	100.00	Numbers	0000.20	393625.00	711 1 41		
24	Descript plate), co	ion:- Q-Series onnectors and	Twin Neutral I retaining clips	ine Relay (QNI etc. and confor	N1 Type), 4F/4B,	24/50V DC and RDSO	complete with plug Specn. No.IRS: S-0 DSO	Below/Par board (base
24	Descript plate), co	ion:- Q-Series onnectors and	Twin Neutral I retaining clips	ine Relay (QNI etc. and confor	N1 Type), 4F/4B, ming to BRS-960	24/50V DC and RDSO	Specn. No.IRS: S-3	Below/Par board (base 34 & S-23 or Above/
24	Descript plate), co latest. Th 25 Descript board (ba	ion:- Q-Series onnectors and ne interlocking of 100.00 ion:- Q-Series ase plate), con Amdt. upto da	Twin Neutral I retaining clips code for this ur Numbers Magnetically I nectors and re	Line Relay (QNI etc. and confor nit shall be "ACE 5801.67 Latched Neutral taining clips and	N1 Type), 4F/4B, ming to BRS-960 E HJ". Inspection a 580167.00 Line Relay (QL1 d conforming to Bl	24/50V DC and RDSO authority:- R AT Par Type), 11F, RS-935A an	Specn. No.IRS: S-0 DSO	Below/Par board (base 34 & S-23 or Above/ Below/Par ete with plug . IRS: 5-34 &
	Descript plate), co latest. Th 25 Descript board (ba S-23with	ion:- Q-Series onnectors and ne interlocking of 100.00 ion:- Q-Series ase plate), con Amdt. upto da	Twin Neutral I retaining clips code for this ur Numbers Magnetically I nectors and re	Line Relay (QNI etc. and confor nit shall be "ACE 5801.67 Latched Neutral taining clips and	N1 Type), 4F/4B, ming to BRS-960 E HJ". Inspection a 580167.00 Line Relay (QL1 d conforming to Bl	24/50V DC and RDSO authority:- R AT Par Type), 11F, RS-935A an	Specn. No.IRS: S-3 DSO 580167.00 /4B, 24V DC completed RDSO Specn.No.	Above/ Below/Par ete with plug . IRS: 5-34 &
	Descript plate), co latest. Th 25 Descript board (ba S-23with authority: 26 Descript board (ba	ion:- Q-Series onnectors and ne interlocking of 100.00 ion:- Q-Series ase plate), con Amdt. upto da :- RDSO 100.00 ion:- Q-Series ase plate), con	Twin Neutral I retaining clips code for this ur Numbers Magnetically L nectors and re te as applicab Numbers Magnetically L nectors and re	Line Relay (QNI etc. and conformit shall be "ACE 5801.67" Latched Neutral taining clips and le or latest. The 5426.82 Latched Neutral taining clips and le or latest and le or latest attaining clips and taining clips and taining clips and le or latest and le or latest attaining clips and le or latest and le or latest and le or latest and le or latest attaining clips and le or latest attaining clips and le or latest and late	N1 Type), 4F/4B, ming to BRS-960 E HJ". Inspection a 580167.00 Line Relay (QL1 d conforming to Ble interlocking code 542682.00 Line Relay (QL1 Time Relay (QL1	24/50V DC and RDSO authority:- R AT Par Type), 11F, RS-935A and e for this ur AT Par Type), 8F/61 RS-935A and	Specn. No.IRS: S-CDSO 580167.00 4B, 24V DC completed of RDSO Specn.No.it shall be "ABDEG 542682.00 3, 2450V DC completed of RDSO Specn.No.	Below/Par board (base 34 & S-23 or Above/ Below/Par ete with plug . IRS: 5-34 & ". Inspection Above/ Below/Par ete with plug
25	Descript plate), co latest. Th 25 Descript board (ba S-23with authority: 26 Descript board (ba	ion:- Q-Series onnectors and ne interlocking of 100.00 ion:- Q-Series ase plate), con Amdt. upto da :- RDSO 100.00 ion:- Q-Series ase plate), con	Twin Neutral I retaining clips code for this ur Numbers Magnetically L nectors and re te as applicab Numbers Magnetically L nectors and re	Line Relay (QNI etc. and conformit shall be "ACE 5801.67" Latched Neutral taining clips and le or latest. The 5426.82 Latched Neutral taining clips and le or latest and le or latest attaining clips and taining clips and taining clips and le or latest and le or latest attaining clips and le or latest and le or latest and le or latest and le or latest attaining clips and le or latest attaining clips and le or latest and late	N1 Type), 4F/4B, ming to BRS-960 E HJ". Inspection a 580167.00 Line Relay (QL1 d conforming to Ble interlocking code 542682.00 Line Relay (QL1 d conforming to Ble "ABCEG". Inspection of the second o	24/50V DC and RDSO authority:- R AT Par Type), 11F, RS-935A and e for this ur AT Par Type), 8F/61 RS-935A and	Specn. No.IRS: S-CDSO 580167.00 4B, 24V DC completed of RDSO Specn.No.it shall be "ABDEG 542682.00 3, 2450V DC completed of RDSO Specn.No.	Below/Par board (base 34 & S-23 or Above/ Below/Par ete with plug . IRS: 5-34 & ". Inspection Above/ Below/Par ete with plug
25	Descript plate), collatest. The 25 Descript board (bas-23with authority: 26 Descript board (bas-23 or latest) 27 Descript board (bas-24 or latest) LEA/ Placest	ion:- Q-Series onnectors and the interlocking of the interlocking	Twin Neutral I retaining clips code for this un Numbers Magnetically Lectors and rete as applicab Numbers Magnetically Lectors and reflocking code for Numbers Solventral Line nectors and reflocking and reflocking code for Numbers Solventral Line nectors and reflocking and reflocking code for Annexure I and solventral Line nectors and reflocking code for Annexure I and solventral Line nectors and reflocking code for Annexure I and solventral Line nectors and reflocking code for Annexure I and solventral Line nectors and reflocking code for this under the code for the code	Line Relay (QNI etc. and conformit shall be "ACE 5801.67". Latched Neutral taining clips and le or latest. The 5426.82 Latched Neutral taining clips and or this unit shall 3865.48 Relay (Style taining clips etc. dd RDSO Specin	N1 Type), 4F/4B, ming to BRS-960 E HJ". Inspection a 580167.00 Line Relay (QL1 d conforming to Ble interlocking code 542682.00 Line Relay (QL1 d conforming to Ble "ABCEG". Insp. 386548.00 QN1K), 1000 Oh. and conforming to	24/50V DC and RDSO authority:- R AT Par Type), 11F, RS-935A and for this ur AT Par Type), 8F/61 RS-935A and dection authority:- AT Par arm, 6F/6B,2 to BRS:930	Specn. No.IRS: S-CDSO 580167.00 4B, 24V DC completed of RDSO Specn.No.it shall be "ABDEG 542682.00 B, 2450V DC completed of RDSO Specn.No.ority:- RDSO	Below/Par board (base 34 & S-23 or Above/ Below/Par ete with plug . IRS: 5-34 & ". Inspection Above/ Below/Par ete with plug . IRS: 5-34 & Above/ Below/Par te with plug Ts/E/Relays/

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	connector	rs, retaining cli DSO Specn.No	ps etc and cor J.IRS: S-34 &	nforming to BRS	S:94 1A STS/E/RE . upto date as ap	LAYS/AC L	te with plug board (IT LED SIGNAL/09- atest. The interlock	2002, Amdt.
29	29	20.00	Kg	182.00	3640.00	AT Par	3640.00	Above/ Below/Par
	Descripti	ion:- "Sealing v	wire used for s	ealing of signall	ling relays & equip	ments. Insp	ection authority:- C	onsignee"
30	30	100.00	Numbers	1093.26	109326.00	AT Par	109326.00	Above/ Below/Par
	Descripti	ion:- Supply of	seal plier as p	per sample got a	approved from site	e engineer ir	ncharge. Inspection	: Consignee
	31	500.00	Numbers	405.36	202680.00	AT Par	202680.00	Above/ Below/Par
31	laying, bu 60/40 cor looping e be done	unching, lacing re cable/flexible tc. required for	i, dressing & e wire on tag b r keeping insta	packeting of 60 llock/base plate allation ready fo	0/40 core PVC inc & base plates & s r circuit wiring wo	door cable/t soldering. TI rk & panel t	p and major group flexible wire and te his includes fuse wi hroughing work. Th y. Engineer a t site	rmination of ring, bus bar e work shall
	32	50.00	Numbers	4808.41	240420.50	AT Par	240420.50	Above/ Below/Par
32	board, re 30.05.97	etaining clip ar	nd connectors nd IRS:534 &	. Conforming to	BRS:931A & R	DSO letter	6B contacts, compleno STs/E/Relays/Upr this unit shall be	EA/PI dated
	33	20.00	Numbers	3901.08	78021.60	AT Par	78021.60	Above/ Below/Par
33	plate), co	nnectors, retai	ining clips etc	and conforming	g to BRS-931A ar	nd RDSO Sp	DC along with plug becn. No.IRS: S@4 n authority:- RDSO"	
	34	20.00	Numbers	3918.75	78375.00	AT Par	78375.00	Above/ Below/Par
34	(base pla 23 and 5	te), connectors	s, retaining clip upto date as	s etc and confo	rming to BRS-931	A and RDS	0 V DC along with O Specn.No.IRS: 50 or this unit shall be	@45"44@ S-
	35	20.00	Numbers	7080.00	141600.00	AT Par	141600.00	Above/ Below/Par
35	(base pla with amd	ite), connector	s, retaining clips applicable of	ps etc and conf	forming to BRS- 9	43 and RD	F-4B complete with SO Specn.No.IRS: shall be "BCEJK"	5-34 & S-23
	36	30.00	Numbers	5085.00	152550.00	AT Par	152550.00	Above/ Below/Par
36	plate), co	nnectors and	retaining clips	etc and confor		and RDSO	complete with plug Specn.No.IRS: 5-3 OSO	
	37	18.00	Kilometre	5309.68	95574.24	AT Par	95574.24	Above/ Below/Par
37	as per IS meters le RITES if	694:2010 and ngth. Colour of value of item	I RDSO Specr the wire which in work more	n. No. IRS: 5-76 h is required wil than 5 lakhs (i	6/89 (Amnd-3) or I be specified by the	latest. Each ne Engineer ject to proc	or of size 16/0.2 mm or coil should be of incharge. Inspection curement from RDS of Railway Board."	100/200/500 n: (i) RDSO/
	38	10.00	Kilometre					Above/ Below/Par
38	694:20 10 length. Co	0 and RDSO 9 olour of the wire fitem in work	Specn. No.IRS e which is req more than 5 la	8: S- 76/89 (Am uired will be spe akhs (ii) Consign	nd-3) or latest. E ecified by the Eng	ach coil sho ineer inchar ocurement f	or of size 3/0.75 m ould be of 100/200 ge. Inspection: (i) F rom RDSO approve 3oard."	/500 meters RDSO/RITES

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Metre 37.77 37770.00	37.77 37770.00 AT Par	37770.00 Above. Below/Pai
f 1 x 6 Sq.mm. (Red/Black/Green multi strand ch dia 0.30mm +/- 0.01 with insulation thick am and test parameters as per RDSO Specn. Note that the specified by the Engineer incharge. Install (ii) Consignee subject to procurement from RDS as per extant instructions by Railway Board."	0.01 with insulation thickness of 0.8 mm a ters as per RDSO Specn. No.IRS:5-76/89(Amn the Engineer incharge. Inspection: (i) RDSO/Ret to procurement from RDSO approved vendor	as per IS:694:20 10 or nd nominal conductor d.3) or latest.Colour o ITES if value of item ir
Metre 120.63 108567.00		08567.00 Above
f 1 x 10 Sq.mm. {Red/Black/Green} multi strand ach dia 0.30mm +/- 0.01 with insulation thick/km and test parameters as per RDSO Specn.Nd will be specified by the Engineer incharge. Ins (ii) Consignee subject to procurement from RDS as per extant instructions by Railway Board."	7- 0.01 with insulation thickness of 1.0 mm a eters as per RDSO Specn.No.IRS:S-76/89(Amn the Engineer incharge. Inspection: (i) RDSO/ R ot to procurement from RDSO approved vendor	nd nominal conductor d.3) or latest.Colour o RITES if value of item in
Metre 126.94 88858.00	126.94 88858.00 AT Par	88858.00 Above. Below/Pai
f 1 x 16 8q.mm. {Red/Black/Green} multi strand ach dia 0.40mm +/- 0.01 with insulation thick / km and test parameters as per RDSO Specn. ired will be specified by the Engineer incharge. I hs(ii) Consignee subject to procurement from I akhs as per extant instructions by Railway Boar	7- 0.01 with insulation thickness of 1.0 mm a eters as per RDSO Specn. No.IRS: S-76/89(An by the Engineer incharge. Inspection: (i) RDSO pject to procurement from RDSO approved ver	as per IS:694:20 10 or and nominal conductor and.3) or latest. Colour ARITES if value of item
Metre 161.25 129000.00	161.25 129000.00 AT Par 1	29000.00 Above. Below/Par
1 a 25 Sq mm {Bed/B1aek} multi strand coppe	d/B1aek) multi strand copper power wire as per	IS:694: 2010 or latest
0.40mm +/- 0.01 with insulation thickness of 1.2 parameters as per RDSO Specn. No.IRS:S-7 specified by the Engineer incharge. Inspection on signee subject to procurement from RDSO a	th insulation thickness of 1.2 mm and nominal of RDSO Specn. No.IRS:S-76/89(Amnd.3) or lating gineer incharge. Inspection: (i) RDSO/ RITES in procurement from RDSO approved vendors if	test.Colour of the wire If value of item in work
0.40mm +/- 0.01 with insulation thickness of 1.2 parameters as per RDSO Specn. No.IRS:S-7 specified by the Engineer incharge. Inspection	th insulation thickness of 1.2 mm and nominal of RDSO Specn. No.IRS:S-76/89(Amnd.3) or lating gineer incharge. Inspection: (i) RDSO/ RITES is procurement from RDSO approved vendors if the bons by Railway Board."	test.Colour of the wire If value of item in work
0.40mm +/- 0.01 with insulation thickness of 1.2 parameters as per RDSO Specn. No.IRS:S-7 specified by the Engineer incharge. Inspection on signee subject to procurement from RDSO as per extant instructions by Railway Board." Per Conductor 13.00 650000.00 ing/jumpering as per circuit diagrams in the relations by wire man duly checked by firm's site ong jumper done by wireman will not be paid plied & issued by Railways. Good quality solder iss. Soldering of jumper wires to be done after contact the second of the se	th insulation thickness of 1.2 mm and nominal of RDSO Specn. No.IRS:S-76/89(Amnd.3) or lat gineer incharge. Inspection: (i) RDSO/ RITES is procurement from RDSO approved vendors if ons by Railway Board." 13.00 650000.00 AT Par 6 r circuit diagrams in the relay racks/IDF rack taked duly checked by firm's site supervisor & wire by wireman will not be paid & correction shall allways. Good quality solder resin core to be supper wires to be done after completion of testing	test.Colour of the wire for value of item in work value of whole item in the value of the va
0.40mm +/- 0.01 with insulation thickness of 1.2 parameters as per RDSO Specn. No.IRS:S-7 specified by the Engineer incharge. Inspection on signee subject to procurement from RDSO as per extant instructions by Railway Board." Per Conductor 13.00 650000.00 ing/jumpering as per circuit diagrams in the relations by wire man duly checked by firm's site ong jumper done by wireman will not be paid plied & issued by Railways. Good quality solder	th insulation thickness of 1.2 mm and nominal of RDSO Specn. No.IRS:S-76/89(Amnd.3) or lat gineer incharge. Inspection: (i) RDSO/ RITES is procurement from RDSO approved vendors if ons by Railway Board." 13.00 650000.00 AT Par 6 r circuit diagrams in the relay racks/IDF rack taked duly checked by firm's site supervisor & wire by wireman will not be paid & correction shall allways. Good quality solder resin core to be supper wires to be done after completion of testing (RRI.Inspection: Consignee)	test.Colour of the wire for value of item in work value of whole item in the value of the va
0.40mm +/- 0.01 with insulation thickness of 1.2 parameters as per RDSO Specn. No.IRS:S-7 specified by the Engineer incharge. Inspection on signee subject to procurement from RDSO as per extant instructions by Railway Board." Per Conductor 13.00 650000.00 ing/jumpering as per circuit diagrams in the relations by wire man duly checked by firm's site ong jumper done by wireman will not be paid plied & issued by Railways. Good quality solder as Soldering of jumper wires to be done after contents in any El/Pl/RRI.Inspection: Consignee	th insulation thickness of 1.2 mm and nominal of RDSO Specn. No.IRS:S-76/89(Amnd.3) or lat gineer incharge. Inspection: (i) RDSO/ RITES is procurement from RDSO approved vendors if ons by Railway Board." 13.00 650000.00 AT Par 6 r circuit diagrams in the relay racks/IDF rack tax duly checked by firm's site supervisor & wire by wireman will not be paid & correction shall allways. Good quality solder resin core to be supper wires to be done after completion of testing (RRI.Inspection: Consignee) 25233.15 201865.20 AT Par 2 relay rack as per DRG.NO.S&T/C-20/2001 vertically and fixing of fuses with base as bars & other equipment's required for the appeal of the part of	test.Colour of the wire of value of item in work value of whole item in work value of whole item in to value of whole item in to value of whole item in to wire testing as per be done free of cost opplied by contractor for by Railways. This item of the wire testing as per be done free of cost opplied by contractor for by Railways. This item of the modification vides, diodes; resistances opproved system designate 100 relays (station of the supply of relay rack this includes status of the required materials of
0.40mm +/- 0.01 with insulation thickness of 1.2 parameters as per RDSO Specn. No.IRS:S-7 specified by the Engineer incharge. Inspection onsignee subject to procurement from RDSO as per extant instructions by Railway Board." Per Conductor 13.00 650000.00 ing/jumpering as per circuit diagrams in the relationship to the paid of the procurement from RDSO as per extant instructions by Railway Board." Per Conductor 13.00 650000.00 ing/jumpering as per circuit diagrams in the relationship to the paid of the procure for the paid of the procure for the procu	th insulation thickness of 1.2 mm and nominal of RDSO Specn. No.IRS:S-76/89(Amnd.3) or lat gineer incharge. Inspection: (i) RDSO/ RITES is procurement from RDSO approved vendors if ons by Railway Board." 13.00 650000.00 AT Par 6 r circuit diagrams in the relay racks/IDF rack tax duly checked by firm's site supervisor & wire y wireman will not be paid & correction shall allways. Good quality solder resin core to be super wires to be done after completion of testing (RRI.Inspection: Consignee) 25233.15 201865.20 AT Par 2 relay rack as per DRG.NO.S&T/C-20/2001 versus as a per part of the part of th	test.Colour of the wire if value of item in work value of whole item in work value of whole item in work value of whole item in 50000.00 Above Below/Par g blocks. This includes to wire testing as perbe done free of cost oplied by contractor for by Railways. This item 01865.20 Above Below/Par with modification vides, diodes; resistances oproved system designate 100 relays (station 9, AMD-2 or latest (for less supply of relay rack this includes status of the required materials ITES if value of item in rextant instructions by Above 56413.04
0.40mm +/- 0.01 with insulation thickness of 1.2 parameters as per RDSO Specn. No.IRS:S-7 specified by the Engineer incharge. Inspection onsignee subject to procurement from RDSO as per extant instructions by Railway Board." Per Conductor 13.00 650000.00 ing/jumpering as per circuit diagrams in the relationship to the paid of the procurement from RDSO as per extant instructions by Railway Board." Per Conductor 13.00 650000.00 ing/jumpering as per circuit diagrams in the relationship to the paid of the paid of the procure for the paid of the procure for the procure for the paid of the procure for t	th insulation thickness of 1.2 mm and nominal of RDSO Specn. No.IRS:S-76/89(Amnd.3) or lat gineer incharge. Inspection: (i) RDSO/ RITES is procurement from RDSO approved vendors if ons by Railway Board." 13.00 650000.00 AT Par 6 r circuit diagrams in the relay racks/IDF rack tax duly checked by firm's site supervisor & wire by wireman will not be paid & correction shall allways. Good quality solder resin core to be supervised to be done after completion of testing (RRI.Inspection: Consignee) 25233.15 201865.20 AT Par 2 relay rack as per DRG.NO.S&T/C-20/2001 vertically and fixing of fuses with base as bars & other equipment's required for the appeal of hardware & erection materials to accommoder). PVC wire as per RDSO SPEC.IRS-5-76/89 contractor, duly inspected by RDSO. This includitings as per DRG.NO.S&T/C-20/2001. Note: -t the top of relay rack and in this connection all of fixed on rubber pad. Supply. Inspection: (i) RI e of whole item in work less than 5 lakhs as per page in the process of the page of whole item in work less than 5 lakhs as per page of the page of whole item in work less than 5 lakhs as per page of the page of whole item in work less than 5 lakhs as per page of the page of whole item in work less than 5 lakhs as per page of the page of the page of whole item in work less than 5 lakhs as per page of the pa	test.Colour of the wire of value of item in work value of whole item in work value of whole item in work value of whole item in 50000.00 Above Below/Par g blocks. This includes to wire testing as per be done free of cost opplied by contractor for by Railways. This item 01865.20 Above Below/Par with modification vides, diodes; resistances oproved system design late 100 relays (station of the supply of relay rack this includes status of the required materials ITES if value of item in rextant instructions by

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	wire guid procured 17/2001 ladder for requirem	e complete wit from RDSO's a OR latest with or supporting c ents of railway	h other neces approved firm screw less d outdoor cable, & erection m	sary hardware only. This includisconnect type wire guide, Naterials. Supply	as per requireme des supply of cab connectors (Wag IDT fuse comple r. Inspection: (i) F	nts of rly. & le terminatio o/ Phoenix/ te with othe RITES if valu	er for supporting ou erection materials. on rack as per DRG Similar), scaffoldin er necessary hardv ue of item in work i structions by Railwa	Wires to be .NO. S&T/C- ng materials, ware as per more than 5
47	47	5.00	Numbers	5721.90	28609.50	AT Par	28609.50	Above/ Below/Par
	Descript	ion:- Execution	١.		·			
48	48	1000.00	Numbers	64.85	64850.00	AT Par	64850.00	Above/ Below/Par
	-			•			6(REV-2) OR LATE O.23741A, ALT-4.	ST. Material
49	49	500.00	Numbers	374.86	187430.00	AT Par	187430.00	Above/ Below/Par
	Descript	ion:- 6 WAY, D	RG.NO. 2375	6,ALT-3. Inspec	tion : RDSO			
	50	200.00	Numbers	49.50	9900.00	AT Par	9900.00	Above/ Below/Par
50	with fuse inside th	inserts cartrid e location box	lge, non- dete x on hylum s	riorating type to sheet. Inspection	o spec.IRS-S-78/	92 with late e, non-dete	R LATEST, DRG.NO st amendment, to eriorating(2A/6A/10A ensignee	be mounted V16A) type,
51	51	200.00	Numbers	143.32	28664.00	AT Par	28664.00	Above/ Below/Par
	Descript	ion:- Fuse Bas	e as per abov	e schedule Insp	ection : Consigne	е	I	
52	52	100.00	Numbers	63.46			6346.00	Above/ Below/Par
02	-		_		ts of 0.6 A with hatest. Inspection: (erial will be supplie	ed only from
53	53	100.00	Numbers	66.88	6688.00	AT Par	6688.00	Above/ Below/Par
	-			-	s of 1.6 A with hatest. Inspection: (erial will be supplie	d only from
54	54	100.00	Numbers	21.01	2101.00	AT Par	2101.00	Above/ Below/Par
54	-				of 0.6A without test. Inspection: (erial will be supplie	ed only from
55	55	100.00	Numbers	18.92	1892.00	AT Par	1892.00	Above/ Below/Par
00	-				of 1.6A without test. Inspection: (•	erial will be supplie	ed only from
	56	5.00	Kilometre	153131.81	765659.05	AT Par	765659.05	Above/ Below/Par
56	conformi Consigne	ng to IRS:76/8	9(Amd3) or la ocurement fro	itest. Inspection m RDSO appro	n: (i) RDSO if va	lue of item	Cable 60 core (in work more than e item in work less	n 5 lakhs (ii)
	57	5.00	Kilometre	103491.68	517458.40	AT Par	517458.40	Above/ Below/Par
57	conformi Consigne	ng to IRS:76/8	9(Amd3) or la	ntest. Inspection m RDSO appro	n: (i) RDSO if va	lue of item	Cable 40 core (0 in work more than e item in work less	n 5 lakhs (ii)
	58	100000.00	Per Conductor	8.78	878000.00	AT Par	878000.00	Above/ Below/Par
58								

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	terminati with dres outdoor	ion rack in relay ssing threads as cable shall be	room, station s per standard terminated in	building, gener practice. All ma	ator room etc. The terial required for G Room, ASM Ro	e item includ this item wi	n ends in location be des dressing of cable Il be supplied by cor der supervision and	es and wires ntractor. The
	59	50000.00	Numbers	56.73	2836500.00	AT Par	2836500.00	Above/ Below/Par
59	SPN/189 Railway Consigne as per e entry (Tv	n/2004(Modular signalling) With ee subject to po extant instructio	Terminal Bloc n latest amend rocurement fro ns by Railway o out-put) The	cks, Fuse Term Iments. Inspect Im RDSO appro Board. Supply	inal Blocks &Mini- ion: (i) RDSO if voved vendors if va of Disconnect Te	ature fuse I alue of iten lue of whole rminal Bloc	per RDSO Spec. ink of international in in work more than e item in work less k, Screw less type, arge. (Preferably In	standard for n 5 lakhs (ii) than 5 lakhs 4-wire front
60	60	25000.00	Numbers	10.63	265750.00	AT Par	265750.00	Above/ Below/Par
	Descript	tion:- Supply of	f End plate 2.5	mm/0.091 in thi	ck as per site requ	uirement. In	spection : Consigne	е
61	61	10000.00	Numbers	10.63	106300.00	AT Par	106300.00	Above/ Below/Par
	Descript	tion:- Supply of	f End Stopper	10mm/0.0394 ir	width as per site	requiremen	t. Inspection : Cons	ignee
60	62	1000.00	Metre	111.09	111090.00	AT Par	111090.00	Above/ Below/Par
62	-	tion:- Supply o irement. Inspec			ım x 7.5mm, 1mn	n/0.039 in t	hickness un-slotted	type as per
63	63	50000.00	Numbers	16.54	827000.00	AT Par	827000.00	Above Below/Pai
	Descript	tion:- Supply of	f Markers strip	. Inspection : Co	nsignee		I I	
	64	5000.00	Numbers	56.07	280350.00	AT Par	280350.00	Above Below/Pa
64	The colo						entry (One in-put & Garey Colors in the ra	-
65	65	50000.00	Numbers	2.08	104000.00	AT Par	104000.00	Above Below/Pa
		tion:- Supply of 3-901 or similar			o - 283- 402 or si	milar) , suita	able for 0.2 to 16 sq	mm termina
	66	100.00	Per Relay	279.92	27992.00	AT Par	27992.00	Above Below/Pa
66	approved 16/0.2 m RITES [followed]	d circuit diagram or copper wire or value of mat ote: - wire to b	m. These work as per RDSO erial above Rs e procured fro	includes the re Spec. Wire to b . 5.0 lakhs.]. Insom RDSO's app	eleasing of existin e procured from F pection by consig	g unused w RDSO's app nee [for valu y. All requit	y rack/location box rires and wiring the roved source and in ue of material below red material like wir	relays using spection: by than Rs 5.0
	67	1.00	Station	136150.89	136150.89	AT Par	136150.89	Above/ Below/Par
67	CTR. Trindication above an soldered of 1 sq.n will be 60 the contributions	nis includes into panel and related the panel and related the distribution of the panel and pane	erconnection, ay rack tag blo nching etc. As lity lugs in dup L., 16/0.2 mm f. 1 mm as per procured from 3.0.75 mm, 10	wiring with lad cks for data log required at site licate. From rela or relays, 3/0.75 IRS-S-76/89, ar RDSO's approv sq.mm cables r	der arrangement ger. This also incl . 16 sq. mm. cabl ay rack to panel w 5 mm for MCBS a nd-2 or latest for yed firm only & to equired for wiring	between reudes termine to be used irre should be not 10 sq.minterconnect be duly inspectors.	I to IPS to relay racelay racks, CTRS, eation of cables / wird between IPS & it's pe of 40/60 core mum for power wiring. Supply of wires pected. Note:1) necellied by the contractor. Up to 6 Lines Station.	control cum es on all the battery duly liticore cable Indoor cables s / cables by essary 40/60 or. 2)to suite
	68	3.00	Numbers	1170785.62	3512356.86			Above/ Below/Par
68								below/Pa

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	per RDS0) Spec. No. R PI-6L/RE/004	DSO/ SPN/165	5/2012 (Ver.3. (0) with latest ame	endment if a	power supply (IPS any and also as per d cell as per E. F	r Sketch No.
	69	3.00	Numbers	111508.86	334526.58	AT Par	334526.58	Above/ Below/Par
69	shall work The dime necessary	on early streension of the degree of the deg	amer emission evice shall be t nal tester. A	principle and s 590 mm x 120 r non-resettable	shall be made of some of some or more. The extra type counter shape type counter shape of the sh	stainless ste provision sh nall also be	as per standard NF el with a T of 60 m nall be there to test supplied to coun vice with earth pit	C 17-102. It icro second. this device if t number of
	70	3.00	Per Unit	7422.92	22268.76	AT Par	22268.76	Above/ Below/Par
70	installation painted a	n, mechanical	ly robust good ng kit foundati	d corrosion and	d fire resistance,	5 mtr. (inc	ology based lightnir luding 2 mtr FRP) llation of mast. Sup	long GI/MS
	71	150.00	Metre	1381.91	207286.50	AT Par	207286.50	Above/ Below/Par
71	placed in	a metallic / P	VC protective		ver exposed to hi		trolytic copper dow ention including sad	
	72	3.00	Per Unit	46387.60	139162.80	AT Par	139162.80	Above/ Below/Par
72	explosion		closure with in	•	_		ical & equipment E during a surge. Su	-
70	73	150.00	Metre	1425.70	213855.00	AT Par	213855.00	Above/ Below/Par
73	_			-	ctrolytic copper ta upply material insp		suitable CLASS-'B onsignee.	' GI pipe for
	74	3.00	Set	18887.44	56662.32	AT Par	56662.32	Above/ Below/Par
74	about of a using the with help down cor	about 3 mtrs. copper tape of of spacers. It s iductor should	From the roof f 25 mm x 2 n shall also be en be connected	of the building nm or better. The nsured that this	using a GI mast. nis copper tape sh down conductors rode using exothe	The device nall be run f shall not tou	shall be installed a shall be connected irmly along the side ich the building thro g or better. A cour	to earth pit of the mast oughout. The
	75	10.00	Numbers	24804.06	248040.60	AT Par	248040.60	Above/ Below/Par
75	line and r	neutral and ne	utral & earth o	of approved typ		RITES [for	h Class 'B' & Class value of material a	
	76	28.00	Numbers	4397.12	123119.36	AT Par	123119.36	Above/ Below/Par
76	LATEST, PT4/91 fix	DRG. NO. SA	-2374 1A with	3 no. of 40 mr nannel (75x40x	n bore G I PIPE 6	300 mm lon	ng to IRS-S-75/91 g as per DRG. NO. ninal to be procured	SGW/MGS/
	77	28.00	Numbers	7092.00	198576.00	AT Par	198576.00	Above/ Below/Par
77	Workshop mentioned ALT-1. 2. Extension 1. 5. Slee showing t	o /Howrah /E. d below: - 1. [Lock Rod (F. Bracket - BS/: ve- BS/29/726 he Layout arra	Rly. drawing r Detector Rod (ar End) - BS/2 29/725 with AL B with ALT-1. Ingement- BS/3	number, S1. No Far End) - BS/2 29/723 with AL ⁻ T-1. 4. Drive Ro 6. Lug- BS/29/ 29/727 with AL ⁻	o., Description of 29/721 with ALT-1 T-1, Lock Rod (N od - BS/29/726 wi 726 C with ALT-1 T-1. Amdt. and alt	Drawing & Detector F ear End) B th ALT- 1 Di . 7. Pin- BS . up to date	nt Machine, as per CWM/SW /HWH's Rod (Near End)- BS S/29/724 with ALT-rive Lug- BS/29/726 D with ALT-rif any. Inspection: bal below than Rs 5.	Drawing No. 5/29/722 with 1. 3. Switch 5 A with ALT-1. 8. Sketch by RITES [for

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		22.22		447070.00	222222	AT D	222222	Above/
	78	28.00	Numbers			AT Par	3303233.36	Below/Par
78	trailable t 60 Kg. co	o operate on	110V, DC com S: S 24/2002	plete with Lock & Assy. Drg. N	and Detector slid	es, Cable T	st (AC immunity 16 Fermination Box and otor IRS: S 37/82.	d clamp lock
	79	28.00	Numbers	11322.22	317022.16	AT Par	317022.16	Above/ Below/Par
79	with fixing the point point JB, including	of junction be machine is to termination a wiring, testing	oxes, ground on be fixed from adjustment for grand commis	connections incl the gauge tie poperation of positions of positions.	uding smithy work plate involving rive points by crank h MS plate/flat/angl	s involved, eting/weldin nandle, pair le /angle cl	en/ concrete sleepe insulation of MS pla g of angle cleats, in ting and lettering eats, paints, bolts ontractor except poi	ate on which nstallation of as required & nuts and
	80	50.00	Set	1235.92	61796.00	AT Par	61796.00	Above/ Below/Par
80	insulation RH to Drg - 4 Nos., plate for leading in stretcher comprisin Insulating insulated requirement plate for bar BG as per RDSG Consigne	for IRS point g.No.S-3265 - 2. Split-Stretch leading insula isulated stretch bar BG as pergof: (a) Insulational bushing for instretcher barsent) Insulation insulated tie ples per RDSO Did drg.No.T-10	machine - One 1 No. (c)Insulation of the large of the lar	e set comprises ating bush to Drusulation for Lead pars BG as per RDSO o.T-10371 - 6 I e for insulated and pars BG as DSO Drg.No.T10 plete with insular RDSO Drg.No - 3 Nos. (c) Insulanspection: (i) Form RDSO appropriation	s of (a)Side plate I g.No.S-3199 - 4 N ding stretcher bars r RDSO Drg.No.T- Drg.No.T-10535- Nos. 2.2 Insulation stretcher bars BG per RDSO Drg.No 0371 - 12 Nos & 3 ating bush and wa .T-10372-1 No. (bulating Washer for RDSO/ RITES if va	LH to Drg. I los. (d) Insu s(BG) each -10384 - 2 4 Nos. (c) n for followi as per RD T-10368 - 3. Gauge tie sher each s b) Insulating insulated s alue of item	r 1.Switch bracket No.S-3266 - 1 No. (lating washer to Driset comprising of (Nos. (b) Insulating Insulating Washering stretcher bars ESO Drg.No.T-10366 Nos. (c)Insu1ating plates (52 Kg/60Kget comprising of: (bushing for insulating tretcher bar BG to I in work more than the item in work less	(b) Side plate (g.No.S-8640) a) Insulating bushing for for insulated (G. Each set 7 - 3 No. (b) g washer for g as per site (a) Insulating ted stretcher (RS 40/84 as in 5 lakhs (ii) than 5 lakhs
	81	100.00	Set	378.26	37826.00	AT Par	37826.00	Above/ Below/Par
81	10368, Tas applications applications and 10372-1 Insulating RDSO/RI	- 10371A1t2, Table. Gauge tid ble. Gauge tid washer each No. (b) Insula Washer for in TES if value	F-15083/88/Alt e plates (52 K set comprisin ting bushing t sulated stretch of item in wor	2 & T-11690/Ali g/60Kg as per s g of: (a) Insulat for insulated st her bar BG to IR rk more than 5	22 and as per RDS site requirement) I ting plate for insul retcher bar BG a S 40/84 as per RE 5 lakhs (ii) Consig	SO/ SPN/16 Insulation for lated tie plates per RDS DSO drg.Not gnee subje	DSO drg. No: T- 1 8/2005 with latest a or (BG) complete w te BG as per RDS O Drg.No.T10368 .T-10371 - 6 Nos. In ct to procurement ructions by Railway	0372Alt2, T- amendments ith insulating O Drg.No.T- - 3 Nos. (c) nspection: (i) from RDSO
	82	28.00	Set		218685.88	AT Par	218685.88	Above/
82	arrangem machine including specificat	ion:- Dismantl ent and refixi on MS plate t smithy job for	ng of existing fixed on wood welding & teri Intling of all n	electrical detection en/concrete sle mination & wirin	drilling of holes in ctor and installation depers complete was of point machin	on of IRS 2 with fixing one, adjustme	tongue rail/ gauge 24/2002 with latest of point JB ground ent and testing as parking with paint fo	Amdt. point connections per technical
	83	14.00	Numbers	7366.71	103133.94	AT Par	103133.94	Above/ Below/Par
83	control as wooden s This inclu as per 23(LATES	s per yard diag shelf, nuts & b des supply of yard diagran	ram, approved olts as require electrical key to n, approved	I circuit diagram of for the work. transmitter with circuit diagran	. Installation portion The ward no. Of key for crank hand spech.no	on shall inclo key shall b adle interloc o. IRS-S-	nk handle arrange ude supply of neces e advised by the si king arrangement s 21/01(LATEST) A ated by site engine	ment, siding sary angles, ite engineer. iding control AND IRS-S-
	84	14.00	Numbers	6816.23	95427.22	AT Par	95427.22	Above/ Below/Par
84	Descripti	i on:- Execution	1.	<u> </u>	<u> </u>			

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					ı			
Ī	85	79.00	Per Detection Point (DP)	514645.11	40656963.69	AT Par	40656963.69	Above/ Below/Par
85	Counter (I tender, co Electronic be supplie different D	MSDAC) for nomplete with all s/ DAC field uned along with Detection Point	nentioned determined laccessories, nits, Central Exthe system), F	ection Point by to cable required valuator (Centra Reset unit, Relations as per RD	the purchaser & T with each track de Il Evaluator unit sh Iy unit, Event logg	rack Section vice & Card nould be hou ger & Diagn	of Multi Section n as per SIP uploa viz., Axle Detectors used in a pre-fabric ostic terminals etc. PN/176/2013, Ver.3	ded with the s, Track Side ated Rack to required for
	86	`	Per Detection Point (DP)	8009.66	632763.14	AT Par	632763.14	Above/ Below/Par
86	RDSO/SP MSDAC s evaluator the contra required v central ev 76/89 OR as require done by C engineer a submissio	on:- "Installati N/176/2013 (version which and its access actor. Wiring will be supplied raluator includ IS:694/1977(version be supplied to be supplied to be sign and to be sign and to be sign and to training	on testing and ver-3) or lates includes tracksories /interfaction cable tend by Railway) ing the supply or latest) as applied by the content (ii) pre-comed jointly with led pre-commi	at. This include a circuit electron electron electron electron rack and a circuit electron rack and a circuit electron e	installation, wiring nics and its all a All the tools and to the central end wiring the research ded cable for required her accessories. I - (i) installation, to cklist issued by R incharge (iii) paying the first of MSDAC in so	g, testing a accessories plants for in valuator, inset box and uired size on the control of the	e as per RDSO spend commissioning (track electronics stallation has to be stallation of earth wiring the power sepper conductor as execution /installaticommissioning of MDAC will be prepared item will be released to the solution of MSDAC items of MSDAC	cification no. of complete unit, central arranged by electrode (if upply to the s per IRS-5-on materials ISDAC to be ed by OEM's ed only after M'S engineer in Inspection:
87	(HASSDAI High frequence of the filter card (HASSDAI One Dn I /dressing, along with	C) with Dual suency web molates & hardw to be mount C) system NO ine of a full cable terminate existing UF	ensor system ounting type Tare, Dual displed on din rail TE: One set of Block Section with lug estibles.	ting & commiss as per RDSO/S x coil/Rx coil, ay reset box will etc. as per C HASSDAC sys between two syelet, drilling hor rument. Materi	ioning of High Ava SPN/177/2012 vers VR/PR Box duly with auto resetting fa SEM for complete tem will include ectations. This includes in rails, Installa	sion 3 or late wired, Vital acility, Surger installation pulpment recurde fixing cation of track	gle Section digital a est. This includes t relays, PR Relays, e voltage protection & testing & community of device, relays, we device and make the items of LIARS.	he supply of Clamp with devices and hissioning of he Up line or viring, lacing
		by contactor to	o make it funct	ional. Inspectio			ly item of HASSD/	
1	88	by contactor to	make it funct Pair	1010058.80		AT Par	1010058.80	AC shafl be Above/
88	Descripti specificati equipmen	1.00 ion:- Supply on IRS: S-108 ts required fo	Pair of Block Pand 5/2012Ver.0 w r one complet	1010058.80 el BPAC (Bloc ith latest amen e Single Line E	n: RDSO" 1010058.80 k Proving with didment for single	AT Par igital axle line operation	1010058.80 counter) using UF on. NOTE: One set nis includes Relay,	AC shafl be Above/ Below/Par SBI as per t will include
88	Descripti specificati equipmen	1.00 ion:- Supply on IRS: S-108 ts required fo	Pair of Block Pand 5/2012Ver.0 w r one complet	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont	n: RDSO" 1010058.80 k Proving with didment for single Block Section exceractor alongwith the	AT Par igital axle line operation	1010058.80 counter) using UF on. NOTE: One set nis includes Relay,	AC shafl be Above/ Below/Par SBI as per t will include
88	Descripti specificati equipmen Retaining 89	1.00 ion:- Supply on IRS: S-10! ts required fo clip & connect 1.00 on:- "Supply of ion on OFC/C	Pair of Block Pane 5/2012Ver.0 w r one complet cors to be supp Pair of Automatic M	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont 36230.44 ledia changeov	1010058.80 k Proving with didment for single Block Section exceractor alongwith the 36230.44 er system of Mod	AT Par igital axle line operation physical DAC. The UFSBI. In AT Par em working	1010058.80 counter) using UF on. NOTE: One set nis includes Relay, nspection: RDSO	AC shafl be Above/ Below/Par FSBI as per t will include Relay Base, Above/ Below/Par nnel for data
89	Descripti specificati equipmen Retaining 89 Descripti transmissi	1.00 ion:- Supply on IRS: S-10! ts required fo clip & connect 1.00 on:- "Supply of ion on OFC/C	Pair of Block Pane 5/2012Ver.0 w r one complet cors to be supp Pair of Automatic M	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont 36230.44 ledia changeov	1010058.80 k Proving with didment for single Block Section exceractor alongwith the 36230.44 er system of Mod	AT Par igital axle line operation physical DAC. The UFSBI. In AT Par em working	1010058.80 counter) using UF on. NOTE: One set nis includes Relay, nspection: RDSO 36230.44 on redundant char	AC shafl be Above/ Below/Par FSBI as per t will include Relay Base, Above/ Below/Par nnel for data
	Descripti specificati equipmen Retaining 89 Descripti transmissi Consignee 90 Descripti	1.00 ion:- Supply on IRS: S-10! ts required fo clip & connect 1.00 on:- "Supply of ion on OFC/Ce." 1.00 on:- "Supply of on:- "Supply of on:- "Supply of on:- "Supply of	Pair of Block Pane 5/2012Ver.0 w r one complet fors to be supp Pair of Automatic M tuad/ microway Pair of Modem for	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont 36230.44 ledia changeov radio, for se 60428.29	1010058.80 k Proving with didment for single Block Section exceractor alongwith the 36230.44 er system of Modiamless operation 60428.29 e with secondary	AT Par igital axle line operation pt DAC. The UFSBI. In AT Par em working of UFSBI of AT Par media OF	1010058.80 counter) using UF on. NOTE: One set nis includes Relay, nspection: RDSO 36230.44 on redundant char over multiple media	AC shafl be Above/ Below/Par SBI as per t will include Relay Base, Above/ Below/Par nnel for data . Inspection: Above/ Below/Par em shall be
89	Descripti specificati equipmen Retaining 89 Descripti transmissi Consignee 90 Descripti	1.00 ion:- Supply on IRS: S-10! ts required fo clip & connect 1.00 on:- "Supply of ion on OFC/Ce." 1.00 on:- "Supply of on:- "Supply of on:- "Supply of on:- "Supply of	Pair of Block Pane 5/2012Ver.0 w r one complet fors to be supp Pair of Automatic M tuad/ microway Pair of Modem for	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont 36230.44 ledia changeov radio, for se 60428.29 UFSBI for us RDSO/SPN/147/	1010058.80 k Proving with doment for single Block Section exceractor alongwith the 36230.44 er system of Mod amless operation 60428.29 e with secondary 2005 with amendary	AT Par igital axle line operation pt DAC. The UFSBI. In AT Par em working of UFSBI of AT Par media OF	1010058.80 counter) using UF on. NOTE: One set nis includes Relay, nspection: RDSO 36230.44 on redundant char over multiple media 60428.29 C/Quad. The mode	AC shafl be Above/ Below/Par SBI as per t will include Relay Base, Above/ Below/Par nnel for data . Inspection: Above/ Below/Par em shall be
89	Descripti specificative equipmen Retaining 89 Description transmissing Consigned 90 Description complete 91 Description Description Personal Per	1.00 ion:- Supply on IRS: S-10! ts required fo clip & connect 1.00 on:- "Supply of ion on OFC/Ce." 1.00 on:- "Supply with existing s 1.00 on:- Installation	Pair of Block Pane 5/2012Ver.0 w r one complet fors to be supp Pair of Automatic M tuad/ microway Pair of Modem for ystem as per F Pair	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont 36230.44 ledia changeov ve radio, for se 60428.29 UFSBI for us RDSO/SPN/147/	1010058.80 k Proving with description density for single Block Section excertactor alongwith the 36230.44 er system of Mode amless operation 60428.29 e with secondary 2005 with amendary 19934.88 odem & media condem &	AT Par igital axle line operation the UFSBI. In AT Par em working of UFSBI of AT Par media OF ment -1 or la	1010058.80 counter) using UF on. NOTE: One set nis includes Relay, nspection: RDSO 36230.44 on redundant char over multiple media 60428.29 C/Quad. The mod atest. Inspection: Co	AC shafl be Above/ Below/Par SBI as per t will include Relay Base, Above/ Below/Par nnel for data . Inspection: Above/ Below/Par em shall be onsignee." Above/ Below/Par
89	Descripti specificative equipmen Retaining 89 Description transmissing Consigned 90 Description complete 91 Description Description Personal Per	1.00 ion:- Supply on IRS: S-10! ts required fo clip & connect 1.00 on:- "Supply of ion on OFC/Ce." 1.00 on:- "Supply with existing s 1.00 on:- Installation	Pair of Block Pane 5/2012Ver.0 w r one complet fors to be supp Pair of Automatic M tuad/ microway Pair of Modem for ystem as per F Pair	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont 36230.44 ledia changeov radio, for se 60428.29 UFSBI for us RDSO/SPN/147/19934.88 issioning of m	1010058.80 k Proving with description density for single Block Section excertactor alongwith the 36230.44 er system of Mode amless operation 60428.29 e with secondary 2005 with amendary 19934.88 odem & media condem &	AT Par igital axle line operation the UFSBI. In AT Par em working of UFSBI of AT Par media OF ment -1 or la	1010058.80 counter) using UF on. NOTE: One set his includes Relay, hispection: RDSO 36230.44 on redundant char over multiple media 60428.29 C/Quad. The mod hatest. Inspection: Co	AC shafl be Above/ Below/Par SBI as per t will include Relay Base, Above/ Below/Par nnel for data . Inspection: Above/ Below/Par em shall be onsignee." Above/ Below/Par
89	Descripti specificati equipmen Retaining 89 Descripti transmissi Consigned 90 Descripti complete 91 Descripti materials 92 Descripti	1.00 ion:- Supply on IRS: S-109 ts required fo clip & connect 1.00 on:- "Supply of ion on OFC/Cee." 1.00 on:- "Supply with existing s 1.00 on:- Installation for execution to 1.00 on:- Installation t as per stan	Pair of Block Pane 5/2012Ver.0 w r one complet fors to be supp Pair of Automatic M tuad/ microway Pair of Modem for ystem as per F Pair on and comm to be supplied Pair on, Testing &	1010058.80 el BPAC (Bloc ith latest amen e Single Line E lied by the cont 36230.44 ledia changeov ve radio, for se 60428.29 UFSBI for us RDSO/SPN/147/19934.88 issioning of m by the contracto 55980.22 commissioning	1010058.80 k Proving with didment for single Block Section exceractor alongwith the 36230.44 er system of Mod amless operation 60428.29 e with secondary 2005 with amendary 19934.88 odem & media cor. 55980.22 of Block proving	AT Par igital axle line operation ept DAC. The UFSBI. In AT Par em working of UFSBI of AT Par media OF ment -1 or la AT Par hange over	1010058.80 counter) using UF on. NOTE: One set his includes Relay, hispection: RDSO 36230.44 on redundant char over multiple media 60428.29 C/Quad. The mod hatest. Inspection: Co 19934.88 r as above. Note:	AC shafl be Above/ Below/Par SBI as per t will include Relay Base, Above/ Below/Par nnel for data . Inspection: Above/ Below/Par em shall be onsignee." Above/ Below/Par all required Above/ Below/Par uding UFSBI

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93	all requise Ver.1.0 of circular Note The ring fixed on the second	site materials, r Latest (with a lo.92, using co earth shall be the wall to the	Earthing shall minimum 10 opper rings with connected to c entire breadth	be in the form maintenance from the earth resistant copper flat of size of Relay room	n of Ring Earth of see earth electrode ce less than 1 ohn se 25x3 mm in the and IPS room as	conforming es) and as pen. The earter relay room an earth bu	e done along with to RDSO spec RD over CSTE/ER/Kolkathing shall be maint and IPS room. Thus bar and all earthmentlnepection: Co	SO/SPN/197 a's technical enance free. e copper flat connections		
	94	40.00	Numbers	8809.99	352399.60	AT Par	352399.60	Above/ Below/Par		
94	housing a	and compatible	with AC LED	•	SO Specn. No.R		AC retrofittable in o 99/2010(Rev.1) or	existing CLS		
95	95	45.00	Numbers	8814.07	396633.15	AT Par	396633.15	Above/ Below/Par		
	Descript	ion:- YELLOW	Aspect							
96	96	25.00	Numbers	9918.90	247972.50	AT Par	247972.50	Above/ Below/Par		
	Descript	ion:- GREEN /	Aspect							
	97	80.00	Numbers	5863.12	469049.60	AT Par	469049.60	Above/ Below/Par		
97	and com	Description:- "Supply of various LED signals {Subsidiary Signal}, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn. No.RDSO /SPN/153/2011 (Rev.4.1) or latest.{items to be procured through stores) Inspection: RDSO" LED for Route Aspect								
98	98	50.00	Numbers	6044.87	302243.50	AT Par	302243.50	Above/ Below/Par		
	Descript	ion:- LED for S	Shunt Signal As	spect			<u> </u>			
99	99	6.00	Numbers	7161.95	42971.70	AT Par	42971.70	Above/ Below/Par		
	Descript	ion:- LED for (Calling ON 8igr	a1 Aspect			<u> </u>			
	100	14.00	Numbers	15379.66	215315.24	AT Par	215315.24	Above/ Below/Par		
100	RDSO SI DRG. NC & blankir mechanic subject to	PEC. NO. IRS: 0. S-2011/M (Ong off. Materia cal signalling it	S-6-81 (or late R LATEST). N Ils to be proci ems. Inspectio from RDSO ap	st) and DRG. Note: - this includured only from n: (i)RDSO/RIT	O. SA-23156 (AD es signal post, ba RDSO approved ES if value of iter	V), ALT-1 (se, ladder, l list of firm n in work m	bases for ladder & OR LATEST). CLS ladder base, platfor s for manufacture fore than 5 lakhs (ii k less than 5 lakhs a	base as per m, rail guard & supply of i) Consignee		
	101	11.00	Numbers	14058.53	154643.83	AT Par	154643.83	Above/ Below/Par		
101	per RDS0 - this incl from app value of	O SPEC. NO. I udes signal po roved list of fir item in work n	RS-5-6-8 1 and est, base, ladde ms for manufa nore than 5 la	d DRG. NO. SA er, ladder base, cturer & supply khs ii) Consign	-23153/ADV/AIT- platform, rail gua of mechanical sig	1. All drawin ard & blanki gnalling item curement fr	th bases for ladder og should be as per ng off. Materials to is. Inspection: (i)RD om RDSO approve 30ard."	latest. Note: be procured SO/RITES if		
	102	11.00	Numbers	18521.15	203732.65	AT Par	203732.65	Above/ Below/Par		
102	paying ou complete SPEC.NC only. Not includes Supply. procurem	ut of tail cable f without lenses D.IRS/5-26/64. e: - signal unit led signal light Inspection: (i)	rom location b s, lamps and s All drawings s should be cor ening unit inclu RDSO/RITES SO approved	ox and Earthing ignal transform hould be as pe npatible to 'LEC uding current re if value of ite	of CLS [LED type er as per DRG.No r latest. Material t o' type. Note: - ins egulator. this also em i n work more	e]. This inclu D.SA 23001 o be procui stallation, er includes pr e than 5 la	ladder etc.), LED undes supply of CLS (A/ M/ADV.ALT-8 Ared from RDSO's apection & wiring of sotection of unit from khs (ii) Consignees than 5 lakhs as	unit including unit 2 aspect AND AS PER pproved firm ignalling unit n rain water.		
	103	11.00	Numbers	1906.25	20968.75	AT Par	20968.75	Above/ Below/Par		
103	Descript	ion:- Execution	1		<u> </u>	l				
		cription:- Execution								

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	104	5.00	Numbers	24379.25	121896.25	AT Par	121896.25	Above/ Below/Par
104	paying ou complete SPEC.NC only. Note includes I Supply. I procurem	It of tail cable f without lenses J.IRS/5-26/64. e: signal unit ed signal light Inspection: (i)	rom location b s, lamps and s All drawings s should be con ening unit inclu RDSO/RITES SO approved	ox and Earthing signal transform hould be as peropatible to 'LED uding current re if value of ite	of CLS [LED type er as per DRG.No r latest. Material t ' type. Note :- insi gulator .this also em i n work more	e]. This inclu O.SA 23001 o be procur tallation, er includes pro e than 5 la	ladder etc.),LED u des supply of CLS u /A/ M/ADV.ALT-8 A red from RDSO's ap- ection & wiring of si betection of unit from khs (ii) Consignee ss than 5 lakhs as	nit 4 aspection AS PEF oproved firm gnalling unitation rain water.
105	105	5.00	Numbers	2956.14	14780.70	AT Par	14780.70	Above Below/Pa
	Descripti	on:- Execution	1				1	Above
	106	9.00	Numbers	21304.25	191738.25	AT Par	191738.25	Below/Pa
106	paying ou complete SPEC.NC only.Note includes I Supply. I procurem	t of tail cable f without lenses J.IRS/5-26/64. :- signal unit ed signal light Inspection: (i)	rom location b s, lamps and s All drawings s should be com ening unit inclu RDSO/RITES SO approved	ox and earthing ignal transforme hould be as perpatible to 'LED' uding current re if value of ite	of CLS [LED type er as per DRG. N r latest. Material t type. Note:-inst gulator.this also eminwork more	e]. This inclu O.SA 23001 o be procur allation, er includes pro e than 5 la	ladder etc.),LED u des supply of CLS u /A/ M/ADV.ALT-8 A red from RDSO's ap ection & wiring of si btection of unit from khs (ii) Consignee ss than 5 lakhs as	init 3 aspect ND AS PER oproved firm gnalling un rain water. subject to
107	107	9.00	Numbers	2304.87	20743.83	AT Par	20743.83	Above Below/Pa
10/			2					
10/	Descripti	on:- Execution	1					
10/	108 Descripti	10.00	Numbers on, erection ar			_	205976.40 D type]. This include	Below/Pa es supply o
	Descripti junction ty to be pro installatio also inclu ALT.2 Ins	10.00 ion:- Installation ype route indicatored from RI n, erection & des protection spection: (i)RD	Numbers on, erection areator without la DSO's approve wiring of signator of unit from SO /RITES if vo	d wiring of jund mp, lenses, sigred firm only. No alling unit includer ain water. Sup alue of item in v	ction type route in nal transformer. A te: - signal unit s des led signal ligh ply of 1 WAY AS vork more than 5	dicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co		Below/Pa es supply dest. Materia ype. Note : gulator .thi: 3401 (ADV) procurement
108	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS	10.00 ion:- Installation ype route indicatored from RI n, erection & des protection spection: (i)RD	Numbers on, erection areator without la DSO's approve wiring of signator of unit from SO /RITES if vo	d wiring of jund mp, lenses, sigred firm only. No alling unit includer ain water. Sup alue of item in v	ction type route in nal transformer. A te: - signal unit s des led signal ligh ply of 1 WAY AS vork more than 5	dicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co	D type]. This include should be as per late ompatible to 'LED' transluding current red D DRG. NO. SA- 23 nsignee subject to p	Below/Pa es supply o est. Materia ype. Note : gulator .this 3401 (ADV) procuremen s by Railway
108	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board.	10.00 ion:- Installation upe route indicured from RI n, erection & udes protection upection: (i)RD GO approved v	Numbers on, erection an eator without la DSO's approve wiring of signa of unit from SO /RITES if v. endors if value	nd wiring of jund mp, lenses, sign ed firm only. No alling unit includ rain water. Sup alue of item in v of whole item in	ction type route in nal transformer. A te: - signal unit s des led signal ligh ply of 1 WAY AS work more than 5 n work less than 5	dicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co i lakhs as pe	D type]. This include should be as per late ompatible to 'LED' translated including current red D DRG. NO. SA- 23 nsignee subject to per extant instructions	Below/Pa es supply dest. Materia ype. Note: gulator .thi 3401 (ADV) procurements by Railwa
108	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board.	10.00 ion:- Installation upe route indicured from RI n, erection & udes protection upection: (i)RD GO approved v	Numbers on, erection an eator without la DSO's approve wiring of signa of unit from SO /RITES if v. endors if value	nd wiring of jund mp, lenses, sign ed firm only. No alling unit includ rain water. Sup alue of item in v of whole item in	ction type route in nal transformer. A ste: - signal unit s des led signal ligh ply of 1 WAY AS work more than 5 n work less than 5	dicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co i lakhs as pe	D type]. This include should be as per late ompatible to 'LED' translated including current red D DRG. NO. SA- 23 nsignee subject to per extant instructions	Below/Pa es supply o est. Materia ype. Note : gulator .this 8401 (ADV) procurement by Railway Above Below/Pa
108	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board. 109 Descripti 110 Descripti value of i	10.00 ion:- Installation type route indicated from RI n , erection & des protection pection: (i)RD ion:- Execution 5.00 ion:- "Supply of tem in work in	Numbers on, erection are ator without la DSO's approve wiring of signar of unit from SO /RITES if value Numbers of 1 WAY AS Numbers of 2 WAY AS Frore than 5 lake	nd wiring of jund mp, lenses, sign ed firm only. No alling unit includ rain water. Sup alue of item in v of whole item in PER RDSO DR 21277.18 PER RDSO DRG chs (ii) Consign	ction type route in all transformer. A ste: - signal unit stes led signal light ply of 1 WAY AS work more than 5 m work less than 5 8602.10 G. NO. SA- 23401 106385.90 G. NO. SA- 23402	dicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co o lakhs as po AT Par I (ADV)/ ALT Curement fr	D type]. This include should be as per late ompatible to 'LED' transignee subject to per extant instructions 8602.10 T.2 106385.90 2 Inspection: (i)RD om RDSO approver	Below/Pa es supply of est. Materia gype. Note : gulator .thi 8401 (ADV) procurement by Railwa Above Below/Pa Above Below/Pa
108	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board. 109 Descripti 110 Descripti value of i	10.00 ion:- Installation type route indicated from RI n , erection & des protection pection: (i)RD ion:- Execution 5.00 ion:- "Supply of tem in work in	Numbers on, erection are ator without la DSO's approve wiring of signar of unit from SO /RITES if value Numbers of 1 WAY AS Numbers of 2 WAY AS Frore than 5 lake	nd wiring of jund mp, lenses, sign ed firm only. No alling unit includ rain water. Sup alue of item in v of whole item in PER RDSO DR 21277.18 PER RDSO DRG chs (ii) Consign	ction type route in all transformer. A ste: - signal unit stes led signal light ply of 1 WAY AS work more than 5 n work less than 5 8602.10 G. NO. SA- 23401 106385.90 i. NO. SA- 23402 ee subject to pro-	dicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co o lakhs as po AT Par I (ADV)/ ALT Curement fr	D type]. This include should be as per late ompatible to 'LED' transignee subject to per extant instructions 8602.10 T.2 106385.90 2 Inspection: (i)RD om RDSO approver	Below/Pa es supply o est. Materia ype. Note: gulator .this 8401 (ADV) procurement by Railway Above Below/Pa Above Below/Pa SO/RITES id vendors i
108	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board. 109 Descripti 110 Descripti value of w 111	10.00 ion:- Installation type route indiction RI n , erection & des protection: pection: (i)RD ion:- Execution ion:- Execution ion:- "Supply of tem in work in whole item in work in whole work in whol	Numbers on, erection are actor without la DSO's approve wiring of signar of unit from SO /RITES if value Numbers of 1 WAY AS Numbers of 2 WAY AS Frore than 5 lake ork less than 5	nd wiring of juncting, lenses, signed firm only. No alling unit includrain water. Supalue of item in voor whole item in 860.21 PER RDSO DR 21277.18 PER RDSO DRG (ii) Consign (ii) Consign (alakhs as per expected for the super ex	ction type route in all transformer. A ste: - signal unit stes led signal light ply of 1 WAY AS work more than 5 n work less than 5 8602.10 G. NO. SA- 23401 106385.90 G. NO. SA- 23402 ee subject to proxant instructions to stee subject	adicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co lakhs as pe AT Par I (ADV)/ ALT AT Par (ADV)/ ALT curement fr by Railway E	D type]. This include should be as per late ompatible to 'LED' transignee subject to per extant instructions 8602.10 T.2 106385.90 .2 Inspection: (i)RD om RDSO approver 30 ard."	Below/Pa es supply o est. Materia ype. Note : gulator .this 8401 (ADV) procuremen s by Railway Above Below/Pa Above Below/Pa SO/RITES i d vendors i
108	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board. 109 Descripti 110 Descripti value of w 111	10.00 ion:- Installation type route indiction RI n , erection & des protection: pection: (i)RD ion:- Execution ion:- Execution ion:- "Supply of tem in work in whole item in work in whole work in whol	Numbers on, erection are actor without la DSO's approve wiring of signar of unit from SO /RITES if value Numbers of 1 WAY AS Numbers of 2 WAY AS Frore than 5 lake ork less than 5	nd wiring of juncting, lenses, signed firm only. No alling unit includrain water. Supalue of item in voor whole item in 860.21 PER RDSO DR 21277.18 PER RDSO DRG (ii) Consign (ii) Consign (alakhs as per expected for the super ex	ction type route in all transformer. A late: - signal unit sides led signal light ply of 1 WAY AS work more than 5 m work less	adicator [LEI Il drawings s hould be co tening unit PER RDSO lakhs (ii) Co lakhs as pe AT Par I (ADV)/ ALT AT Par (ADV)/ ALT curement fr by Railway E	D type]. This include should be as per late ompatible to 'LED' transignee subject to per extant instructions 8602.10 T.2 106385.90 .2 Inspection: (i)RD om RDSO approver 30 ard."	Below/Pa es supply o est. Materia ype. Note: gulator .this 8401 (ADV) procurement s by Railway Above Below/Pa SO/RITES i d vendors i Above Below/Pa Above Below/Pa
108 109 110	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board. 109 Descripti 110 Descripti value of invalue of inval	10.00 ion:- Installation type route indiction and in the rection and	Numbers on, erection are actor without la DSO's approve wiring of signar of unit from SO /RITES if vendors if value Numbers of 1 WAY AS Numbers of 2 WAY AS Fore than 5 lake ork less than 5 Numbers of 3 WAY AS Fore than 5 lake ork less than 5 Numbers	pid wiring of junctions, lenses, signed firm only. No alling unit includrain water. Supalue of item in vot whole item in 860.21 PER RDSO DR 21277.18 PER RDSO DR 6ths (ii) Consign 5 lakhs as per expected by the period of the	ction type route in all transformer. A late: - signal unit sides led signal light ply of 1 WAY AS work more than 5 m work less	adicator [LEI II drawings should be contening unit PER RDSC lakhs (ii) Contening and II (ADV)/ ALT Curement from Par	D type]. This include should be as per late ompatible to 'LED' transignee subject to per extant instructions 8602.10 T.2 106385.90 7.2 106385.90 T.2 144308.82 7.2 144308.82	Below/Pa es supply o est. Materia ype. Note: gulator .this 3401 (ADV) procurement s by Railway Above Below/Pa SO/RITES i d vendors i Above Below/Pa SO/RITES i SO/RITES i
108 109 111 1112	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board. 109 Descripti 110 Descripti value of invalue of inval	10.00 ion:- Installation type route indiction and in the rection and	Numbers on, erection are actor without la DSO's approve wiring of signar of unit from SO /RITES if vendors if value Numbers of 1 WAY AS Numbers of 2 WAY AS Fore than 5 lake ork less than 5 Numbers of 3 WAY AS Fore than 5 lake ork less than 5 Numbers	pid wiring of junctions, lenses, signed firm only. No alling unit includrain water. Supalue of item in vot whole item in 860.21 PER RDSO DR 21277.18 PER RDSO DR 6ths (ii) Consign 5 lakhs as per expected by the period of the	ction type route in all transformer. A ste: - signal unit stes led signal light ply of 1 WAY AS work more than 5 m work less th	adicator [LEI II drawings should be contening unit PER RDSC lakhs (ii) Contening and II (ADV)/ ALT Curement from Par	D type]. This include should be as per late ompatible to 'LED' transignee subject to per extant instructions 8602.10 T.2 106385.90 7.2 106385.90 T.2 144308.82 7.2 144308.82	Below/Pa es supply o est. Materia ype. Note: gulator .this 8401 (ADV) procuremen s by Railway Above Below/Pa
107 108 109 110 111 112	Descripti junction ty to be pro installatio also inclu ALT.2 Ins from RDS Board. 109 Descripti 110 Descripti value of v 111 Descripti value of v 1112	10.00 ion:- Installation type route indiction of the protection o	Numbers on, erection areator without la DSO's approve wiring of signa of unit from SO /RITES if value Numbers of 1 WAY AS Numbers of 2 WAY AS Frore than 5 lake rork less than 5 Numbers of 3 WAY AS Numbers	pid wiring of junctions, lenses, signed firm only. Not alling unit includratin water. Supalue of item in vot of whole item in 860.21 PER RDSO DR 21277.18 PER RDSO DR 21277.18 PER RDSO DR 21352.04 PER RDSO DR 24051.47	ction type route in all transformer. A ste: - signal unit stes led signal light ply of 1 WAY AS work more than 5 m work less th	dicator [LEI II drawings should be contening unit PER RDSC lakhs (ii) Consider the contening unit PER RDSC lakhs (ii) Consider the contening unit PER RDSC lakhs as per lakhs	D type]. This include should be as per late ompatible to 'LED' transignee subject to per extant instructions 8602.10 T.2 106385.90 7.2 106385.90 7.2 144308.82 7.2 Inspection: (i)RD om RDSO approversionard." 6760.20 T.2 144308.82 7.2 Inspection: (i)RD om RDSO approversionard."	est. Materia ype. Note :- gulator .this 8401 (ADV), procurement by Railway Above, Below/Pai Above, Below/Pai Above, Below/Pai Above, Below/Pai Above, Below/Pai SO/RITES it

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Tender No: SDSTE-GSU-RNGR-MSAE Closing Date/Time: 22/05/2023 15:00

115 21.00 Numbers 533.36 11200.56 AT Par 11200.56 BalowPar	114	unit on the shunt sig 23840/AE Note- Sig more tha	ne same post I nal unit withou DV/ALT-2. All D Inal unit shouk n 5 lakhs (ii) C	pelow the main at lenses, lamp brawings should be compatib Consignee subj	n signal as per os, base, post d be as per late le to 'LED' type	technical specific and without signal est. Material to be . Supply. Inspectinent from RDSO	ation. This I transform procured fr on: (i)RDSC	and wiring of shunt includes supply of er as per RDSO D om RDSO's approv D/RITES if value of endors if value of v	position light RG NO. SA- ed firm only. item in work
116 3.00 Numbers 114224.00 342672.00 AT Par 342672.00 Abover Below/Par Description: "Supply of 2 MB Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC-68/2004 (Annot.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card. remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi grow mode and should be able to support cards needed for vision of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous it items which will be required for final testing and commissioning of system. The above MLX should be equipped with following circuits: 10 z wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Subscriber loop circuits (minimum 5 nos ckts) iii) Subscriber loop circuits (minimum 6 nos ckts) iii) Subscriber loop circuits (minimum 6 nos ckts) iii) Subscriber loop circuits (minimum 7 nos ckts) iii) Subscriber loop circuits (minimum 6 nos ckts) iii) Subscriber loop circuits (minimum 6 nos ckts) iii) Subscriber loop circuits (minimum 7 lagent) III and 19691.19 Abover loop circuits (minimum 6 nos ckts) iii) Subscriber loop circuits (minimum 7 lagent) Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC-68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, super	115				533.36	11200.56	AT Par	11200.56	
Description: "Supply of 2 MB Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC-68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and tulty wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, annuals etc. It should have facilities to accommodate data interface card in multi drop moda and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and supply of all miscellaneou s items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: ") & wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 16 nos ckts) iii) This also includes connecting all piglatis, optical patch cords etc. to the SDH equipments in lord of sold the special of the special programman and circuits in Vir This acts includes connection of SDH and primary MUX equipment with all interface cards to the 48Y Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runnary or a wall and termination of VF interface circuit to the Krone type. Inspection:() RDSO if value of item in work more than 1 slaths or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in Vir Interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN: It shall support NMS installation at a statistic material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN: It shall support NMS installed at Test Room and may operate localizemote location to entire section. It also includes submission of all technical documents, manuals and supply of all		Descript	ion:- Execution	1		T			A 1 /
68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, suppervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and any operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneou s items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits:) 10 xmire/4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 16 nos ckts) iii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 16 nos ckts) iii) Subscriber loop circuits (minimum 16 nos ckts) iii) Subscriber loop circuits (minimum 17 nos ckts) iii) Subscriber loop circuits (minimum 18 circuits) iv) This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including support with experiments of vivines and connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including support of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface card in multi drop mode and should be able to support acrds needed for video conferencing and ISDN. BalowPar Boscription: "Installation, wiring, testing and commissioning of 2 MB Programmable Primary Digital drop insert submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: i) 2 wire/4 wire E&M VF circuits (minimum 16 no									Below/Par
Description:- "Installation, wiring, testing and commissioning of 2 MB Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision tacility and all other accessories, installation material, manuals etc. It should have factilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes sometimes them with will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts); ii) Subscriber loop circuits (minimum 4 nos ckts); iii) Exchange loop interface circuits (minimum 8 circuits); ii) This also includes connecting all pigtalis, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. All materials such as wires for Earthing & power supply, wire carrying aluminium ladder, MCB, Connectors, foundation bolts, nuts, base frame, mounting accessories for fitting of transformers, U-Link Panels, inter connecting cables etc. required for the above shall be supplied by the contractor." 118 6.00 Numbers 7092.09 42552.54 AT Par 42552.54 Above/Below/Par Description:- Installation, erection and paying out of tail cable from location box and wiring of shunt signal, LED unit aspect facility to the procured from RDSOs approved firm only. Note- Signal unit	116	channel comaterial, be able to may ope manuals system. If nos concruits includes converse and VF interferextant po	complete with p manuals etc. I o support cards rate local/rem and supply of The above MU kts) ii) Subscri iv) This also in connection of St d connectors to ace circuit to the licy (ii) Consign	oower supply of the should have a needed for viote location of all miscelland X should be expected ber loop circuncludes connead and prima armination of a need of the subject to be the subject to the should have subject to the should hav	ard, remote confacilities to accorde conferencing fertire sections on the section of entire sections with footing all pigtails or mux equipments on DD Inspection:	ntrol, supervision of the superv	facility and a terface card all support I submission and I support I	all other accessories in multi drop mode NMS installed at Tecon of all technical I testing and commitive E&M VF circuits printerface circuits the SDH equipmenthe 48V Bus includivay or a wall and took more than 5 lakes for the value of whole iter	s, installation e and should st Room and documents, nissioning of s (minimum (minimum 8 ts. This also ing supply of ermination of hs or a s per m in " Above/
Description:- Installation, erection and paying out of tail cable from location box and wiring of shunt signal, LED unit as per technical specification. This includes supply of position light shunt signal unit (without lenses, lamps) with Base Post and without signal transformer as per RDSO DRG NO. SA- 23840/ADV/ALT-2. All drawings should be as per latest. Material to be procured from RDSO's approved firm only. Note- Signal unit should be compatible to 'LED' type. Supply. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. 119 Description:- Execution 120 6.00 Numbers 120 Description:- Casting, concreting and curing of foundation for Shunt signal including cost of all materials required for casting and concreting. All materials required for execution will be supplied by the contractor, including holding down galvanised bolts & nuts with washers, cement, sand, stone chips, etc. As per DRG. NO SK/5/95/NKG. Above/ Above/ Above/ Below/Par 121 6.00 Numbers 2648 42 15890 52 AT Par 15890 52 AD Par 15890 52 AD Par 15890 52 Above/ Below/Par 15890 52 Above/	117	Descript multiplexe to tender facility an interface shall supp submissio final testif wire E&M interface SDH equi 48V Bus or a wall supply, v accessori	ion:- "Installativer as per RDS documents and all other accord in multi deport NMS instated on of all techning and commits." I VF circuits (incircuits (minimal including suppand termination wire carrying ites for fitting of the results of the re	on, wiring, test of fully wired for the sessories, instant of the sessories, instant of the sessories, instant of the sessories, instant of the sessories of th	ting and comm TC- 68/2004 (A or 30 channel callation material should be able from and may observed and may observed and stem. The above obs ckts) ii) Subserved ii) Subserved ii) Subserved ii) Subserved ii) Subserved iii) Subserved	issioning of 2 ME amnd.1) or latest v complete with power, manuals etc. It is to support cards perate local/remo supply of all misc e MUX should be cariber loop circuit and primary M rmination of all ev Krone type. All m connectors, found	B Programm with confere er supply cashould have needed for the location of cellaneous equipped was (minimurag all pigtails UX equipmeens on DDF laterials sucation bolts,	able Primary Digital ance facility and other ard, remote control of facilities to accomvideo conferencing of entire section. It a sitems which will be with following circuits on 4 nos ckts) iii) Expected by the section of the factor of the	Il drop insert er stipulation , supervision modate data and ISDN. It also includes required for s: i) 2 wire/ 4 change loop ds etc to the cards to the over runway ning & power e, mounting
unit as per technical specification. This includes supply of position light shunt signal unit (without lenses, lamps) with Base Post and without signal transformer as per RDSO DRG NO. SA- 23840/ADV/ALT-2. All drawings should be as per latest. Material to be procured from RDSO's approved firm only. Note- Signal unit should be compatible to 'LED' type. Supply. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. 119 119 119 119 120 120 120 13156.42 147 15890.52 15890.52 15890.52 15890.52 15890.52 15890.52 15890.52 ADDERITATION (without lenses, lamps) with Base Post and without lenses, lamps) with Base Post and without signal unit (without lenses, lamps) with Base Post and without signal unit (without lenses, lamps) with Base Post and without signal unit (without lenses, lamps) with Base Post and without signal unit (without lenses, lamps) with Base Post and with Embedding of Image and should be compatible to 'LED' type. Signal unit should be compatible to 'LED' type. Signal uni		118	6.00	Numbers	7092.09	42552.54	AT Par	42552.54	Above/ Below/Par
Description:- Execution 120 6.00 Numbers 4273.51 25641.06 AT Par 25641.06 Above/Below/Par Description:- Casting, concreting and curing of foundation for Shunt signal including cost of all materials required for casting and concreting. All materials required for execution will be supplied by the contractor, including holding down galvanised bolts & nuts with washers, cement, sand, stone chips, etc. As per DRG. NO SK/5/95/NKG. 121 6.00 Numbers 2648.42 15890.52 AT Par 15890.52 Above/	118	unit as powith Base be as per to 'LED' to procur	er technical sp e Post and with r latest. Materi ype. Supply. Ir ement from R	ecification. Th out signal tran al to be procur aspection: (i)Rl DSO approve	is includes sup isformer as per red from RDSO DSO/RITES if v	ply of position ligl RDSO DRG NO. s approved firm o alue of item in wo	nt shunt sig SA- 23840/ only. Note- S rk more tha	nal unit (without lei ADV/ALT-2. All drav Signal unit should b n 5 lakhs (ii) Consi	t signal, LED nses, lamps) wings should e compatible gnee subject
120 6.00 Numbers 4273.51 25641.06 AT Par 25641.06 Above/Below/Par 120 Description:- Casting, concreting and curing of foundation for Shunt signal including cost of all materials required for casting and concreting. All materials required for execution will be supplied by the contractor, including holding down galvanised bolts & nuts with washers, cement, sand, stone chips, etc. As per DRG. NO SK/5/95/NKG. 121 6.00 Numbers 2648.42 15890.52 AT Par 15890.52 Above/	119	119	6.00	Numbers	526.07	3156.42	AT Par	3156.42	
Description:- Casting, concreting and curing of foundation for Shunt signal including cost of all materials required for casting and concreting. All materials required for execution will be supplied by the contractor, including holding down galvanised bolts & nuts with washers, cement, sand, stone chips, etc. As per DRG. NO SK/5/95/NKG. 121 6 00 Numbers 2648 42 15890 52 AT Par 15890 52 Above/		Descript	ion:- Execution	1			_		Abova
for casting and concreting. All materials required for execution will be supplied by the contractor, including holding down galvanised bolts & nuts with washers, cement, sand, stone chips, etc. As per DRG. NO SK/5/95/NKG. 121 6 00 Numbers 2648 42 15890 52 AT Par 15890 52 Above/									Below/Par
1 1121 I 6.001 Numberst 2648.421 15890.521 AT Part 15890.521	120	for castin	g and concreti	ng. All materia	ls required for e	execution will be s	supplied by t	the contractor, inclu	ıding holding
		121	6.00	Numbers	2648.42	15890.52	AT Par	15890.52	

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121	Guard Re	epeater Signal n: (i)RDSO /RI	Unit shall conf TES if value of	form to RDSO D f item in work m	Org no 24351(Adv nore than 5 lakhs	v) A1t1 suita (ii) Consigno	Fixing accessories. Ible to LED Signal Lee subject to procure extant instructions	ighting Unit.
	122	6.00	Numbers	2628.33	15769.98	AT Par	15769.98	Above/ Below/Par
122	compatib		ED ECR (As p	_			e in existing CLS I Latest with Brack	_
	123	12.00	Numbers	2414.43	28973.16	AT Par	28973.16	Above/ Below/Par
123	item inclusupply of	ides fixing of C bracket & fixi	Co- On signal ng materials e	/'A' sign/ 'AG' sietc. by the conta	ign unit on signal	post with b	ing Guard Repeate pracket, hood etc. I s termination of cal pnsignee.	tem includes
104	124	30.00	Numbers	3648.44	109453.20	AT Par	109453.20	Above/ Below/Par
124				rotective screen . Inspection: Co	•	etal 12 SW	G of size 1200 x 1	500 mm on
	125	18.00	Numbers	569.45	10250.10	AT Par	10250.10	Above/ Below/Par
125	prismatic dia circle materials	(TYPE-IV) retroe) as per drg. including fixing	o reflective she S&T/SDAH /S g clamp requir	eet over 2 mm th SK-1383 and te ed for this work.	hick aluminium sh chnical specificat	eet & letter ion attache pection by r	Omm dia circle) h will be screen print d. This will include ites [for value of ma	ing (250 mm e cost of all
	Rs. 5.0 la	khs.j. Inspectio	on by consigne				1	
	126	38.00	Numbers	399.78	15191.64	AT Par	15191.64	Above/ Below/Par
126	Descript made of including standard procurem	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspe	Numbers Fabrication an uminium shee ment for fixin ection: (i)RDSC	399.78 ad Fixing of Retrot & high intensing them on exist D/RITES if value	15191.64 ro reflective Nome sity prismatic (hipsting post per DF e of item in work)	AT Par enclature Bo o) grade rei RG. NO. S& more than 5	-	Below/Par m x 358 mm (TYPE -IV) and as per see subject to
126	Descript made of including standard procurem	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS	Numbers Fabrication an uminium shee ment for fixin ection: (i)RDSC	399.78 ad Fixing of Retrot & high intensing them on exist D/RITES if value	15191.64 ro reflective Nome sity prismatic (hipsting post per DF e of item in work)	AT Par enclature Bo o) grade rei RG. NO. S& more than 5	15191.64 pard of size 254 mi tro reflective sheet kT/SDAH /SK-1386 5 lakhs (ii) Consigne	Below/Par m x 358 mm : (TYPE -IV) and as per ee subject to s per extant
	Descript made of including standard procurem instruction 127 Descripti	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS ns by Railway I 10.00 ion:- Supply of complete as pe	Numbers Fabrication and uminium sheet the for fixing ection: (i) RDSC SO approved Board." Numbers Foffset bracket	399.78 Ind Fixing of Retroit & high intensing them on exist D/RITES if value vendors if value vendors if value to the control of the control	15191.64 ro reflective Nome sity prismatic (hip sting post per DF e of item in work e of whole item 20756.70 nt shunt signal (90	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par	15191.64 pard of size 254 mitro reflective sheet aT/SDAH /SK-1386 at lakhs (ii) Consigners than 5 lakhs as	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts,
	Descript made of including standard procurem instruction 127 Descripti washers of	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS ns by Railway I 10.00 ion:- Supply of complete as pe	Numbers Fabrication and uminium sheet the for fixing ection: (i) RDSC SO approved Board." Numbers Foffset bracket	399.78 Ind Fixing of Retrot & high intensing them on exist D/RITES if value vendors if value vendors if value to the control of the control o	15191.64 ro reflective Nome sity prismatic (hip sting post per DF e of item in work e of whole item 20756.70 nt shunt signal (90	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par	15191.64 pard of size 254 mitro reflective sheet kT/SDAH /SK-1386 is takhs (ii) Consignes than 5 lakhs as 20756.70	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts,
126 127 128	126 Descript made of including standard procurem instruction 127 Descripti washers by consignual procurem instruction in the	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS ns by Railway I 10.00 ion:- Supply of complete as pende 20.00 ion:- "Supply of complete as pende	Numbers Fabrication and uminium sheet the section: (i) RDSC SO approved Board." Numbers Foffset bracket the section DRG Numbers Numbers Foffset iron offset DSO SPEC.	399.78 and Fixing of Retreat & high intensing them on exist D/RITES if value vendors if value vendors if value vendors if value vendors. NO.SA-23080/	15191.64 ro reflective Nome sity prismatic (hip sting post per DF e of item in work e of whole item 20756.70 nt shunt signal (90/ADV/ALT-1 all dr 52063.00	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par Omm outside awings short	15191.64 pard of size 254 mitro reflective sheet at/SDAH /SK-1386 is than 5 lakhs as 20756.70 a Dia.) post with U culd be as per lates.	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts, t. Inspection: Above/ Below/Par te DRG. NO.
127	126 Descript made of including standard procurem instruction 127 Descripti washers by consignual procurem instruction in the	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS ns by Railway I 10.00 ion:- Supply of complete as pende 20.00 ion:- "Supply of complete as pende	Numbers Fabrication and uminium sheet the section: (i) RDSC SO approved Board." Numbers Foffset bracket the section DRG Numbers Numbers Foffset iron offset DSO SPEC.	399.78 Ind Fixing of Retroport & high intensity and provided to the state of the s	15191.64 ro reflective Nome sity prismatic (hip sting post per DF e of item in work e of whole item 20756.70 nt shunt signal (90/ADV/ALT-1 all dr 52063.00	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par Omm outside awings short	15191.64 pard of size 254 mitro reflective sheet kT/SDAH /SK-1386 is than 5 lakhs as 20756.70 e Dia.) post with U culd be as per lates: 52063.00 ts, washers comple	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts, t. Inspection: Above/ Below/Par te DRG. NO.
127	Description made of including standard procurem instruction 127 Description washers by consignate 128 Description SA-23080 connected 129 Description casting a	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS ins by Railway I 10.00 ion:- Supply of complete as pendee 20.00 ion:- "Supply of complete as pendee 30.00 ion:- Casting, ind concreting.	Numbers Fabrication and uminium sheet the properties of the properties of cast iron offs the proper	399.78 Ind Fixing of Retroport & high intensity and provided the series of the series	15191.64 ro reflective Nome sity prismatic (hip sting post per DF e of item in work e of whole item 20756.70 nt shunt signal (90/ADV/ALT-1 all dr 52063.00 Main Signal with U (78. Inspection: c 250589.40 tion for Main signal ecution will be su	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par Omm outside awings short AT Par clamps, nui onsignee. N AT Par	15191.64 pard of size 254 mitro reflective sheet kT/SDAH /SK-1386 is than 5 lakhs as 20756.70 e Dia.) post with U culd be as per lates: 52063.00 ts, washers comple lote: Offset bracke	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts, t. Inspection: Above/ Below/Par te DRG. NO. et has to be Above/ Below/Par required for
127	Description made of including standard procurem instruction 127 Description washers by consignate 128 Description SA-23080 connected 129 Description casting a	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS is by Railway for the second seco	Numbers Fabrication and uminium sheet the properties of the properties of cast iron offs the proper	399.78 Ind Fixing of Retroport & high intensity of them on existy of them on existy of the property of the pr	15191.64 ro reflective Nome sity prismatic (hip sting post per DF e of item in work e of whole item 20756.70 nt shunt signal (90/ADV/ALT-1 all dr 52063.00 Main Signal with U (78. Inspection: c 250589.40 tion for Main signal ecution will be su	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par Omm outside awings short AT Par clamps, nui onsignee. N AT Par	15191.64 pard of size 254 mitro reflective sheet at 7/SDAH /SK-1386 is than 5 lakhs as 20756.70 e Dia.) post with U could be as per lates 52063.00 ts, washers comple lote: Offset brack 250589.40 cost of all materials	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts, t. Inspection: Above/ Below/Par te DRG. NO. et has to be Above/ Below/Par required for
127	Descripti washers by consignating a sand & st 130 Descripti casting a sand wiring into the spaints and series and sand sand sand sand sand sand sand	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS ins by Railway I 10.00 ion:- Supply of complete as pende 20.00 ion:- "Supply of complete as pende 20.00 ion:- TSupply of complete as pende 20.00 ion:- Releasing with or without g using wire Py ingnal post duly	Numbers Fabrication and uminium sheet the properties of the proper	399.78 Ind Fixing of Retrot & high intensing them on exist of properties of value of the properties o	15191.64 ro reflective Nome sity prismatic (hipsting post per DF er of item in work er of whole item 20756.70 It shunt signal (90/ADV/ALT-1 all dr 52063.00 Main Signal with U (78. Inspection: compared to the sum of the	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par Omm outside awings short AT Par clamps, nut onsignee. N AT Par al including applied by the AT Par ling signals. This work i vant signals	15191.64 Dard of size 254 mitro reflective sheet kT/SDAH /SK-1386 is than 5 lakhs as 20756.70 De Dia.) post with U could be as per lates: 52063.00 Its, washers comple lote: Offset bracked 250589.40 Cost of all materials ne contractor included.	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts, t. Inspection: Above/ Below/Par te DRG. NO. et has to be Above/ Below/Par required for ding cement, Above/ Below/Par s up to four w tail cables ew tail cables mm copper,
127 128 129	Descripti washers by consignating a sand & st 130 Descripti casting a sand wiring into the spaints and series and sand sand sand sand sand sand sand	38.00 ion:- "Supply, 2mm thick all fixing arrange practice. Inspendent from RDS ins by Railway I 10.00 ion:- Supply of complete as pende 20.00 ion:- "Supply of complete as pende 20.00 ion:- Tayply of complete as pende 20.00 ion:- Releasing with or without g using wire Py ignal post duly d all other miss	Numbers Fabrication and uminium sheet the properties of the proper	399.78 Ind Fixing of Retrot & high intensing them on exist of properties of value of the properties o	15191.64 ro reflective Nome sity prismatic (hipsting post per DF er of item in work er of whole item 20756.70 It shunt signal (90/ADV/ALT-1 all dr 52063.00 Main Signal with U (78. Inspection: compared to the sum of the	AT Par enclature Bo) grade rei RG. NO. S8 more than 5 in work les AT Par Omm outside awings short AT Par clamps, nut onsignee. N AT Par al including applied by the AT Par ling signals. This work i vant signals	15191.64 pard of size 254 mitro reflective sheet atr/SDAH /SK-1386 siakhs (ii) Consigned as than 5 lakhs as 20756.70 a Dia.) post with U could be as per latest 52063.00 ats, washers compled to the contractor included as per latest and contractor included as per latest and contractor included as [Wire PVC 3/0.75]	Below/Par m x 358 mm (TYPE -IV) and as per ee subject to s per extant Above/ Below/Par clamps, nuts, t. Inspection: Above/ Below/Par te DRG. NO. et has to be Above/ Below/Par required for ding cement, Above/ Below/Par s up to four w tail cables ew tail cables mm copper,

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	on the sa	me post along	with signal pos	st, signal unit, c	base without dan	naging any i	oart.	Above
32	132	22.00	Numbers				49664.56	Below/Pa
	Descript	ion:- Dismantli	ng of existing	Signal Foundati	on (upto ground le	evel by hydr	aulic breaker).	
	133	3.00	Numbers	65115.92	195347.76	AT Par	195347.76	Above Below/Pa
133	Addressa sufficient capacity of control for sealed le Hours du MODBUS	ble up to 64 no No. of loop as of 127 analoguer controlling Alad acid batteriuring Emergen Alad No. No. No. optional ro	odes 1 Loop F per RDSO Sp ee addressable HU's, pressuris ies sufficient fo acy conditions FCP- IP. The	ire Alarm Controccification No. devices in 1 losation fans, veror 24 Hours no as required. T panel shall ha	ol panel with LCD RDSO/SPN/217/2 op, the panel shal itilation fans at fire rmal working & the he panel shall he we dedicated RS	display, the 018 ver 2.0 Il have suffice e pump roo en capable ave provisi 232 serial	based Networkable panel should be ed or latest. Each lookient No. of programm, monitoring of fire of operating the syon of connectivity oport for direct PC PN/217/2018 ver 2	quipped with p shall have nmable relayed sprinkler & vstem for 24 of BACNET or MODEN.
	134	48.00	Numbers	3253.82	156183.36	AT Par	156183.36	Above Below/Pa
134	smoke de shall com fluctuatio with mou	etector with inb imunicate 3 da ns and air curr nting base as	ouilt fault isolat inger levels for ent. Detector s required with	or and integral r differentiated a should have un	response indicate alarm activation a ique address for c category of IP 40	or with 360 nd high tole communicat	Addressable Multi- degree viewing and rance to dust, dirt, ion and assigned th as per RDSO Spec	Sensor type gle. Detector temperature rough pane
	135	9.00	Numbers	3719.34	33474.06	AT Par	33474.06	Above Below/Pa
135	integral	short circuit isc	olator, Analogu	ie addressable	protocol having	status LED	essable Manual Ca for alarming & sta 1 ver 3.0 or latest	ndby mode
	100							
	136	3.00	Numbers	69579.71	208739.13	AT Par	208739.13	
136	Descript	ion:- Supply, I unicate on mai	nstallation, Te	sting & Commis	ssioning of UV/IR	Type Flame	208739.13 e detector with requ PN/ 217/ 2021 ver 3	Below/Pa
	Descript to commi	ion:- Supply, I unicate on mai	nstallation, Te	sting & Commis	ssioning of UV/IR	Type Flame o. RDSO/ S	e detector with requ	Below/Pa pired module 3.0 or latest Above
136	Descript to communication Inspection	ion:- Supply, I unicate on mai n: RDSO 700.00 ion:- Supply, I	nstallation, Tentire alarm pa	sting & Commisted as per RDS 777.84	ssioning of UV/IR SO Specification N 544488.00	Type Flame o. RDSO/ S AT Par r Heat Sens	e detector with requ PN/ 217/ 2021 ver 3	Below/Pa ired module 3.0 or latest Above Below/Pa
137	Descript to communication Inspection	ion:- Supply, I unicate on mai n: RDSO 700.00 ion:- Supply, I	nstallation, Tentire alarm pa	sting & Commisted as per RDS 777.84	ssioning of UV/IR SO Specification N 544488.00 ssioning of Linea	Type Flame o. RDSO/ S AT Par r Heat Sens	e detector with requ PN/ 217/ 2021 ver 3 544488.00	3.0 or latest Above Below/Pa
137	Descript to communication inspection 137 Descript Specification 138 Descript Descr	ion:- Supply, I unicate on mai n: RDSO 700.00 ion:- Supply, I tion No. RDSO 3.00 ion:- Supply, I	nstallation, Ten fire alarm particle Metre Installation, Ten / SPN/ 217/ 20 Numbers Installation, Ten Numbers	sting & Commissionel as per RDS 777.84 esting & Commis 21 ver 3.0 or la 32696.41	ssioning of UV/IR SO Specification N 544488.00 ssioning of Linea test. Inspection: R 98089.23 ssioning of LHS in	Type Flame o. RDSO/ S AT Par r Heat Sens DSO AT Par	e detector with requ PN/ 217/ 2021 ver 3 544488.00 sing (LHS) cable as	Below/Pal dired module 3.0 or latest Above Below/Pal s per RDSC Above Below/Pal
	Descript to communication inspection 137 Descript Specification 138 Descript Descr	ion:- Supply, I unicate on mai n: RDSO 700.00 ion:- Supply, I tion No. RDSO 3.00 ion:- Supply, I	nstallation, Ten fire alarm particle Metre Installation, Ten / SPN/ 217/ 20 Numbers Installation, Ten Numbers	sting & Commissionel as per RDS 777.84 esting & Commis 21 ver 3.0 or la 32696.41 sting & Commissionel as Com	ssioning of UV/IR SO Specification N 544488.00 ssioning of Linea test. Inspection: R 98089.23 ssioning of LHS in	Type Flame o. RDSO/ S AT Par r Heat Sens DSO AT Par	e detector with requirements of the policy o	Below/Pal dired module 3.0 or latest Above Below/Pal s per RDSC Above Below/Pal
137	Descript to communication 137 Descript Specificat 138 Descript No. RDS0 139 Descript This type be protect accessoria	ion:- Supply, I unicate on main: RDSO 700.00 ion:- Supply, I tion No. RDSO 3.00 ion:- Supply, I D/ SPN/ 217/ 2 3.00 ion:- Supply, I of detector sheeted. It should	nstallation, Ten fire alarm parameter installation, Ten / SPN/ 217/ 20 Numbers installation, Ten 021 ver. 3.0 or Set installation, Ten all use piping to be supplied in Sampling poir	sting & Commistenel as per RDS 777.84 esting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07 esting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07 esting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07	ssioning of UV/IR SO Specification N 544488.00 ssioning of Linea test. Inspection: R 98089.23 ssioning of LHS in on: RDSO 448728.21 sioning of Air San ution network that nodule & Power s	Type Flame o. RDSO/ S AT Par r Heat Sens DSO AT Par atterface mod AT Par appling Type shall run fro supply unit	e detector with requirements of the policy o	Below/Pa sired module 3.0 or latest Above Below/Pa s per RDSC Above Below/Pa Specification Above Below/Pa LASER type se area as to stem with al
137	Descript to communication 137 Descript Specificat 138 Descript No. RDS0 139 Descript This type be protect accessoria	ion:- Supply, I unicate on main: RDSO 700.00 ion:- Supply, I tion No. RDSO. 3.00 ion:- Supply, I of SPN/ 217/ 2 3.00 ion:- Supply, I of detector shoted. It should lies like pipes,	nstallation, Ten fire alarm parameter installation, Ten / SPN/ 217/ 20 Numbers installation, Ten 021 ver. 3.0 or Set installation, Ten all use piping to be supplied in Sampling poir	sting & Commistenel as per RDS 777.84 esting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07 esting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07 esting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07	ssioning of UV/IR SO Specification N 544488.00 ssioning of Linea test. Inspection: R 98089.23 ssioning of LHS in on: RDSO 448728.21 sioning of Air San ution network that nodule & Power s	Type Flame o. RDSO/ S AT Par r Heat Sens DSO AT Par atterface mod AT Par appling Type shall run fro supply unit	e detector with requested pN/ 217/ 2021 ver 3 544488.00 sing (LHS) cable as 98089.23 dule as per RDSO 3 448728.21 detector shall use I m the detector to the complete as a sys	Below/Pa sired module 3.0 or latest Above Below/Pa s per RDSC Above Below/Pa Specification Above Below/Pa LASER type se area as to stem with al
137	Descript to communication 137 Descript Specificat 138 Descript No. RDS0 139 Descript This type be protect accessorilatest Inst 140 Descript cum bea	ion:- Supply, I unicate on main: RDSO 700.00 ion:- Supply, I tion No. RDSO 3.00 ion:- Supply, I of detector sheeted. It should ies like pipes, pection: RDSO 6.00 ion:- Supply, con with base	nstallation, Ten fire alarm parameter installation, Ten / SPN/ 217/ 20 Numbers nstallation, Ten 021 ver. 3.0 or Set installation, Ten all use piping of be supplied Sampling poir Numbers installation, Ten instal	sting & Commistenel as per RDS 777.84 esting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07 sting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07 sting & Commistenel 21 ver 3.0 or latest. Inspection 149576.07 sting & Commistenel 22 very latest. Inspection 149576.07 sting & Commistenel 24 very latest. Inspection 149576.07 sting & Commistenel 25 very latest 149576	ssioning of UV/IR SO Specification N 544488.00 ssioning of Linea test. Inspection: R 98089.23 ssioning of LHS in on: RDSO 448728.21 sioning of Air San ution network that nodule & Power RDSO Specificati 52306.74 issioning of intelli	Type Flame o. RDSO/ S AT Par r Heat Sens DSO AT Par atterface mod AT Par appling Type shall run fro supply unit on No. RDS AT Par gent Addre of IP42 and	e detector with requested pN/ 217/ 2021 ver 3 544488.00 sing (LHS) cable as 98089.23 dule as per RDSO 3 448728.21 detector shall use I m the detector to the complete as a sys SO/ SPN/ 217/ 202	Below/Pa irred module 3.0 or latest Above Below/Pa s per RDSC Above Below/Pa Specification Above Below/Pa LASER type is area as to them with a 1 ver 3.0 o Above Below/Pa red Sounde

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	142	9.00	Numbers	5358.57	48227.13	AT Par	48227.13	Above/ Below/Par
142	temperati	ure (- 30)° to (ct. Inspection:	(50)° for class (i) RITES if val	13 B type of fire	e with 1 mtr. Hose ork more than 5 la	pipe fitted	ISI Mark IS: 1568 with PVC bend horr er extant policy (ii)	complete in
	143	80.00	Numbers	14417.65	1153412.00	AT Par	1153412.00	Above/ Below/Par
143	applicable location of	e GKP SW Dra loor on both s	awing). This in ide, E Type loo	cludes supply o ck (ward No wil	of location box (G I be specified by I	iKP type) w Engineer-in	NO. SW SK NO. 4/5 ith 'E' type lock & k Charge) as per RD section: Consignee	key, fitted on
	144	80.00	Numbers	3689.19	295135.20	AT Par	295135.20	Above/ Below/Par
144	size appa type lock concreting compoun of appara Location	aratus case (G on CC found g. Note: - bo d to be used i tus cases filled boxes to paint	KP type)/Stain ation. This income lits, nuts and note the between apped with sand and ed with anti- co	less Steel (SS) cludes cost of a washers, bitun paratus case ar d the outside co	Apparatus Case all materials requiren compound to did foundation as povered with mason as per IS:- 9862-1	as per DRO ired for fixion be supplicated ber site enging iry work and	6), erection and insta G.NO. S&T/C-6/98(Nong holding down be led by contractor a lineer. This also including the state and half feet from the	NKG) with 'E' olts, casting, and bitumen udes bottom ering. Note: -
	145	80.00	Numbers	5002.71	400216.80	AT Par	400216.80	Above/ Below/Par
145	wood she including supplied shelves to approved be termin	elves for full size supply of slot by contractor. The supplied firm and to be	te apparatus ca tted angles, w (all materials by the contrace inspected by	ase with termina rires, ferrules for except relay, to ctor). Wires to RDSO. [Quanti	ation & Earthing of or marking and r erminal strips, Bak be used for this l ity of wires to be s	cables and niscellaneous celite strip, to purpose show specified by	, fuses with base, f I wiring with lettering us materials per lo fuses with base and ould be procured for contractor]. NB- po be supplied by the	g as required cation to be d hard wood om RDSO'S wer cable to
	146	20.00	Numbers	8054.87	161097.40	AT Par	161097.40	Above/ Below/Par
146	other app on location No. SA 33 item in RECOMM	olicable GKP S on door on boo 376 and Key to work more t	W Drawing). T th side, E Type o Drg. No. 337 han 5 lakhs OF FIRMS FO	his includes super lock (ward No 7 as per RDSO or as per ex	pply of location bo will be specified drawing No. RDS stant policy (ii)	ox (GKP typ by Enginee O/S-11500. Consignee	DRAWING NO.SE/FI e) with 'E' type lock r-in Charge) as per Inspection: (i) RITE subject to procur alue of whole item	& key, fitted RDSO Drg. S if value of ement from
	147	20.00	Numbers	3181.72	63634.40	AT Par	63634.40	Above/ Below/Par
147	size appa on CC fo Note: - bused in b cases fille boxes to	tratus case (Gundation. This olts, nuts and petween appared with sand a painted with	KP type) Appais includes costs washers, bitur ratus case and the outside anti- corrosive	ratus Case as p of all material men compound d foundation as e covered with	per DRG.NO. RE/S s required for fixing I to be supplied be se per site engined masonry work an IS:- 9862-1981,	&T/SIG/TEI ng holding o y contracto er. This also d neat cem	o, erection and insta NDER/ SK/8/85 with down bolts, casting r and bitumen com o includes bottom of nent plastering. Note alf feet from the bo	'E' type lock, concreting. pound to be of apparatus e: - Location
	148	20.00	Numbers	3623.93	72478.60	AT Par	72478.60	Above/ Below/Par
148	for half ap slotted ar (all mater the contr inspected	oparatus case ngles, wires, fe ials except rel actor). Wires I by RDSO. [qu	with termination errules for mar ay, terminal str to be used for uantity of wires	on earthing of c king and misce rips, Bakelite str this purpose to be specified	ables and wiring villaneous material rip, fuses with bas should be procur by contractor]. Ni	with lettering s per location se and hard ed from RI B-power ca	and supply and fixirg as required includent to be supplied be wood shelves to be DSO's approved firmulated be to be terminated spection: Consigned	ng of shelves ing supply of y contractor. e supplied by m and to be d with proper
	149	80.00	Numbers	564.27	45141.60	AT Par	45141.60	Above/ Below/Par
		·			1	•	<u>. </u>	

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	box (FUL bolts. Ins	L or HALF GK	(P /other type) ignee (note-ba	with suitable va	rnish and anti-ter	mite chemic	nt's and batteries in cals fitted on angles available) . 950 x 4	s with nuts 8
150	150	20.00	Numbers	451.59	9031.80	AT Par	9031.80	Above Below/Pa
	Descripti	ion:- 450 x 400	0 x 25 MM for l	half size location	n box .			
151	151	21.00	Square Centimetre	5360.41	112568.61	AT Par	112568.61	Above Below/Pa
	Descripti	ion:- Supply of	f paper base h	ylam sheet 12 n	nm thick. Inspection	on: consigne	е.	
	152	15.00	Numbers	2790.86	41862.90	AT Par	41862.90	Above Below/Pa
152	termination	on, wiring, testi	ing & commiss	_	t painting, lettering		of equipment's, cal circuits as per app	
	153	15.00	Numbers	1667.81	25017.15	AT Par	25017.15	Above Below/Pa
153	insertion,	termination, v	wiring, testing	& commission		inting, letter	, fixing of equipming to suit the cire	
154	154	40.00	Numbers	694.10	27764.00	AT Par	27764.00	Above Below/Pai
	Descripti	ion:- Dismantli	ng of location l	box / RCC Gooi	nty including all its	s accessorie	s & concrete found	ation.
155	155	10.00	Numbers	2003.82	20038.20	AT Par	20038.20	Above Below/Pai
100	_	ion:- Shifting/li g inside location	-	n box to facilita	te earthwork of E	ngg/Con.Th	is includes filling w	ith sand and
	156	80.00	Numbers	263.55	21084.00	AT Par	21084.00	Above
156	-	_			•		f primer on the fo	llowing after
156	scraping contracto by Railwa enamel p 2932 of 1	& cleaning sur shall apply coays. NOTE: - Taints (Aluminu 974) of Appara	urface wherevoating of epoxy he paint and manding synthetic, blooming	er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8	with contractor's per instructions of per from Asian Pailliant white and ye	own supply site-in-char nts/ Nerolac ellow) will be	f primer on the fo of paints. Where ge. Epoxy paint will : / Dulux / Berger. e as per (IS 5660 o	llowing after ver required be supplied The primer / of 1970) / (IS
156	scraping contracto by Railwa enamel p 2932 of 1	& cleaning sur shall apply coays. NOTE: - Taints (Aluminu 974) of Appara	urface wherev pating of epoxy The paint and I m synthetic, b atus Case Full Numbers	er necessary v y paint also as p primer should b ack enamel, br Size. (Outside 8	with contractor's per instructions of per from Asian Pai illiant white and you inside)	own supply site-in-char nts/ Nerolac ellow) will bo AT Par	f primer on the fo of paints. Where ge. Epoxy paint will c / Dulux / Berger. e as per (IS 5660 o	llowing after ver required be supplied The primer / if 1970) / (IS Above/ Below/Par
156	scraping contracto by Railwa enamel p 2932 of 1 157 Descript scraping contracto by Railwa enamel p	& cleaning sur shall apply coays. NOTE: - Total apply coays.	orface wherever beating of epoxy. The paint and more more more more more more more more	er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8 238.73 of synthetic er er necessary v y paint also as p primer should b	with contractor's per instructions of per from Asian Pai illiant white and you are per instructions of per instructions of per from Asian Pai illiant white and you with contractor's per instructions of per from Asian Pai illiant white and you	own supply site-in-char nts/ Nerolac ellow) will be AT Par one coat o own supply site-in-char nts/ Nerolac	f primer on the fo of paints. Where ge. Epoxy paint will : / Dulux / Berger. e as per (IS 5660 o	ver required be supplied The primer / if 1970) / (IS Above/ Below/Par Illowing after ver required be supplied The primer /
	scraping contracto by Railwa enamel p 2932 of 1 157 Descript scraping contracto by Railwa enamel p	& cleaning sur shall apply coays. NOTE: - Total apply coays.	orface wherever beating of epoxy. The paint and more more more more more more more more	er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8 238.73 of synthetic er er necessary v y paint also as p primer should b lack enamel, br	with contractor's per instructions of per from Asian Pai illiant white and you are per instructions of per instructions of per from Asian Pai illiant white and you with contractor's per instructions of per from Asian Pai illiant white and you	own supply site-in-char nts/ Nerolacellow) will be AT Par one coat oown supply site-in-char nts/ Nerolacellow) will be	f primer on the fo of paints. Wherever ge. Epoxy paint will be / Dulux / Berger. See as per (IS 5660 of the paints) wherever ge. Epoxy paint will be / Dulux / Berger.	llowing after ver required be supplied the primer of 1970) / (IS Above, Below/Par llowing after ver required be supplied the primer of 1970) / (IS Above,
157	scraping contracto by Railwa enamel p 2932 of 1 157 Descript scraping contracto by Railwa enamel p 2932 of 1 158 Descripti	& cleaning sur shall apply coays. NOTE: - Total (Aluminu 974) of Appara 20.00 ion:- Painting & cleaning sur shall apply coays. NOTE: - Total (Aluminu 974) of Appara 120.00 ion:- Undergrounductor of size	urface wherevoating of epoxy. The paint and mynthetic, but the coate of two coats o	er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8 238.73 of synthetic er er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 6 223867.32 d, Unscreened	with contractor's per instructions of per instructions of per from Asian Pai illiant white and you inside) 4774.60 aamel paint over with contractor's per instructions of per from Asian Pai illiant white and you inside) 26864078.40 Railway signaling	own supply site-in-char nts/ Nerolacellow) will be AT Par one coat oown supply site-in-char nts/ Nerolacellow) will be AT Par g cable (Hea	f primer on the fo of paints. Wherever ge. Epoxy paint will be / Dulux / Berger. See as per (IS 5660 of 4774.60) f primer on the for of paints. Wherever ge. Epoxy paint will be / Dulux / Berger. See as per (IS 5660 of 1856)	Illowing after ver required be supplied. The primer of 1970 / (IS Above, Below/Par Illowing after ver required be supplied. The primer of 1970 / (IS Above, Below/Par Conductivity
157	scraping contracto by Railwa enamel p 2932 of 1 157 Descript scraping contracto by Railwa enamel p 2932 of 1 158 Descriptic copper copper copper copper contracto	& cleaning sur shall apply coays. NOTE: - Total (Aluminu 974) of Appara 20.00 ion:- Painting & cleaning sur shall apply coays. NOTE: - Total (Aluminu 974) of Appara 120.00 ion:- Undergrounductor of size	urface wherevoating of epoxy. The paint and mynthetic, but the coate of two coats o	er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8 238.73 of synthetic er er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 6 223867.32 d, Unscreened	with contractor's per instructions of per instructions of per from Asian Pai illiant white and you inside) 4774.60 aamel paint over with contractor's per instructions of per from Asian Pai illiant white and you inside) 26864078.40 Railway signaling	own supply site-in-char nts/ Nerolad ellow) will be AT Par one coat o own supply site-in-char nts/ Nerolad ellow) will be AT Par g cable (Hea S-63/2014 (f primer on the fo of paints. Where ge. Epoxy paint will c / Dulux / Berger. as per (IS 5660 of 4774.60) f primer on the fo of paints. Where ge. Epoxy paint will c / Dulux / Berger. as per (IS 5660 of 26864078.40) 26864078.40 avy Duty) with high	llowing after ver required be supplied. The primer of 1970) / (IS Above Below/Par llowing after ver required be supplied. The primer of 1970) / (IS Above Below/Par conductivity Amdt.if any
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157	scraping contracto by Railwa enamel p 2932 of 1 157 Descript scraping contracto by Railwa enamel p 2932 of 1 158 Descripti copper co Inspection 159 Descript SIGNALL	& cleaning sur shall apply coays. NOTE: - Taints (Aluminu 974) of Appara 20.00 ion:- Painting & cleaning sur shall apply coays. NOTE: - Taints (Aluminu 974) of Appara 120.00 ion:- Underground on the state of the	urface wherevoating of epoxy. The paint and m synthetic, beatus Case Full Numbers of two coats urface wherevoating of epoxy. The paint and m synthetic, beatus Case Half Kilometre e 12 Core X 1. Kilometre GROUND RAILECOM INST.	er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8 238.73 of synthetic er er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8 223867.32 d, Unscreened 5 sq mm as pe 282270.00 LWAY JELLY ALLATION CO	with contractor's per instructions of per instructions of per from Asian Pai illiant white and you inside) 4774.60 4774.60 amel paint over with contractor's per instructions of per from Asian Pai illiant white and you inside) 26864078.40 Railway signaling r Specn. No.IRS: 11290800.00 FILLED TELECO	own supply site-in-char nts/ Nerolad ellow) will be AT Par one coat o own supply site-in-char nts/ Nerolad ellow) will be AT Par g cable (Heas-63/2014 (AT Par DM 6 QUA SPECN.NO	f primer on the fo of paints. Where ge. Epoxy paint will c/Dulux / Berger. e as per (IS 5660 of paints. Where ge. Epoxy paint will c/Dulux / Berger. e as per (IS 5660 of paints. Where ge. Epoxy paint will c/Dulux / Berger. e as per (IS 5660 of paints) with high Rev.4.0) with latest	Illowing after ver required be supplied The primer / of 1970) / (IS Above, Below/Par Illowing after ver required be supplied The primer / of 1970) / (IS Above, Below/Par conductivity Amdt.if any. Above, Below/Par Illowing Above, Below/Par Illowing after ver required to be supplied to be
157	scraping contracto by Railwa enamel p 2932 of 1 157 Descript scraping contracto by Railwa enamel p 2932 of 1 158 Descriptic copper contractor in the series of 1 159 Description contractor in the series of 1 159 Descrip	& cleaning sur shall apply coays. NOTE: - Taints (Aluminu 974) of Appara 20.00 ion:- Painting & cleaning sur shall apply coays. NOTE: - Taints (Aluminu 974) of Appara 120.00 ion:- Undergrounductor of sizen: RDSO 40.00 cion:- UNDERGING AND TE OOR LATEST. 35.00	reface wherevoating of epoxy. The paint and mynthetic, blatus Case Full Numbers of two coats reface wherevoating of epoxy. The paint and mynthetic, blatus Case Half Kilometre 2 Core X 1. Kilometre GROUND RAI LECOM INST. Inspection: RI Kilometre	er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 8 238.73 of synthetic er er necessary v y paint also as p primer should b lack enamel, br Size. (Outside 9 223867.32 d, Unscreened 5 sq mm as pe 282270.00 LWAY JELLY ALLATION CO DSO 71908.77	with contractor's per instructions of one from Asian Pai illiant white and you illiant white and you illiant white and you inside) 4774.60 4774.60 4774.60 amel paint over with contractor's per instructions of one from Asian Pai illiant white and you illiant wh	own supply site-in-char nts/ Nerolacellow) will be AT Par one coat oown supply site-in-char nts/ Nerolacellow) will be AT Par g cable (Heas-63/2014 (AT Par DM 6 QUA SPECN.NO	f primer on the fo of paints. Where ge. Epoxy paint will compared to the paints. Where ge as per (IS 5660 of paints. Where ge. Epoxy paint will compared to the paints. Where ge. Epoxy paint will compared to the paints. Where ge as per (IS 5660 of paints.) 26864078.40 avy Duty) with high Rev.4.0) with latest 11290800.00 D CABLE 0.9 MM. IRS-TC-30/2005	Illowing after ver required be supplied The primer of 1970) / (IS Above, Below/Par Illowing after ver required be supplied The primer of 1970) / (IS Above, Below/Par conductivity Amdt.if any. Above, Below/Par Illowing Above, Below/Par Illow/Par Illow/Illo

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101	Latest wit	h socket & cou all material re	ipling on culve quired for fixin	rts bridges or a g arrangement	t any other location	ons as decid lso supply fl	as per IS 1239 (Par ded by Site Enginee exible/corrugated F	r. It includes
	162	500.00	Metre	101.76	50880.00	AT Par	50880.00	Above/ Below/Par
162	1}: 2004 includes i	with socket & nstallation of a e end of GI pi	coupling on oull material req	culverts bridges uired for fixing	s or at any other arrangement. Coi	locations a	thickness} as per I as decided by Site install flexible/corru e cables from shar	S 1239 {Part Engineer. It gated HDPE
100	163	30.00	Numbers	2231.24	66937.20	AT Par	66937.20	Above/ Below/Par
163	-	on:- Supply of 7/ 2012 revisio			nting kit for Quad	Cable (for st	raight joints) as pei	RDSO spec
	164	30.00	Numbers	990.30	29709.00	AT Par	29709.00	Above/ Below/Par
164	material r Joint Kit/F carried ou	equired for the Rapid Joint kit.	e work are to be After joining the ailway Enginee	e arranged by e cable through	contractor himsel test such as insu	f at his own lation test, o	ght through Jointing cost except Therm continuity cable loss luring jointing, the c	o shrinkable ses etc. to be
	165	2000.00	Metre	1813.30	3626600.00	AT Par	3626600.00	Above/ Below/Par
165	pucca roa the track/ and all of instructio material r laid cautio	ad/crossing, boroad/pucca roather items etc. of site engirequired for boously so that it	oring trench shad crossing are and crossing are which will be neer.HDPE PI ring and adeq should not get	all be minimum ea. This includes required for la PETOBE SUF uate nos. of lab damage due to	3 (three) meter be supply of access aying of cable the PPLIED AS PER ours for proper laber to rough handling 8	below the riversite or the sories for HE cough it the RDSO SPE cying of cable or the sories of the s	ples together a brid for bed and 1(one) OPE pipes, including work shall be exec EC. Contactor shall les into the bore. Con cable. Boring up ence of Railway Rep	meter below y, cost of fuel cuted a s per I provide all able shall be to the length
100	166	1500.00	Metre	2419.95	3629925.00	AT Par	3629925.00	Above/ Below/Par
166	-	on:- Boring ab	_		. Preparation of s	ite for Horiz	ontal Boring shall b	e carried out
	167	3500.00	Metre	8.05	28175.00	AT Par	28175.00	Above/ Below/Par
167	_	on:- Laying of filling of boring		Illing cable/ Pov	ver Cable/OFC w	ith nylon rop	oe through 110 mn	n HDPE pipe
	168	20.00	Numbers	375.82	7516.40	AT Par	7516.40	Above/ Below/Par
168	work inclu of 2C/6C disconned of Railwa includes arranged disconned cable to a	ide breaking/ Ide breaking/ Ide/12C/19C/24C, cted and remove y staff present neatly dressin by contactor. Totion within the avoid undue fa	Dismantling of /30C/Quad caved from the et at site. The g of cable, many the work is retime that may ilure. (Termina)	Existing foundations which materials which materials which materials which making wiring to the dolor of the allowed. Thation charges we be allowed which will be allowed which will be allowed.	tion of locations, of ay be about 10 one by one as poor be inserted and the etc. The maine systematically be excavation work	excavating a mtrs. in let er the instru terminated terial requir and with du k to be done	pox to New Location and removing / segrength. These cable ction and under the in new location bed to dressing /1a e precaution during a carefully without dot: Proportionate pay	egating coils s are to be e supervision ox. The item acing will be the block or amaging the
	169	400.00	cum	152.91	61164.00	AT Par	61164.00	Above/ Below/Par
169	refuges, arranged of contrac rates sha removing handling/i	rain bunds if by the contract including all include all of shrubs, re-handling. Ta	provided, pla tor at his own leads, royalty dressing of ba bots of veget axes, Octroi ar	tforms etc. wit cost as per RDS lifts, ascents, ank to final pro ations growth, and royalty etc. a	h earth excavate SO's latest guideli descents, crossin- file, demarcation heavy grass, be s a complete job.	od from out nes and spe g of nallahs and setting enching of e Cut trees s	abutments, bridge side railway bound crifications and specor any other obstruction of profile, site existing slope of cohall be property of ditions of contract.	gaps, trolley dary entirely cial condition ructions. The e clearance, Id bank, all

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		, , , , , , , , , , , , , , , , , , , ,						
	170	400.00	cum	15.72	6288.00	AT Par	6288.00	Above/ Below/Par
170	rollers of incl. cost	suitable capac of water, T&P	ity, type and s consumable n	ize to achieve s naterial and all	specified density a	as per speci lete job. Th	n embankment with fication, testing as pe work is to be executed by the contract of the modern of the contract	per IS codes
	171	400.00	cum	143.44	57376.00	AT Par	57376.00	Above Below/Pa
171	Railway I labour ar mud/slush coping of roads if re	and/premises, nd material as n, slipped eart toe/breast /re equired, all lea	including all a complete the in catch was taining walls and, lift, ascent,	excavations, ha job. Removal o ter drains, side etc. including of descents, or a	andling, re-handlin of Earth (all kinds o drains, over ber rossing of nallah,	ng, loading, s of soils)/ rms in cutti railway tra	orks to any other p unloading and lead ROCKS, BOULDEF ng, water way of b cks, making/repairir poils to be dumped	ding, etc. all RS including ridges, over ng approach
	172	27000.00	cum	605.73	16354710.00	AT Par	16354710.00	Above/ Below/Par
172	bottom as distances cable laid shall be c (a)for all uppermos 1:2:4 con required o	s per RDSO sk as per cable in trench by k done as per th trenches fron st cable in the creting should depth is not av	etch No. SDO/ route plan and pose soil for a de extant pract n distant signate trench should be done. Note vailable at site.	CABLE LAYING I refilling. This value of 50mm layer of 50mm lice on Eastern al to home sig be 600mm. If e:-(b-1) paymer (b-2) if the de	A/003 or latest alc work includes cleathickness approxi Railway and instranal and to relay due to a large not wifi be made as pth of trench is no	ongside the uring of rout mately befoructions of I room, the or of cables or actual of uniform in	d of 0.3 Mtr. to 0.6 track in hard soil, core from bushes etc. re covering by brick Railway Engineer at minimum headway headway is not avoiced work done on prona span of 100 mten for that particular	onforming to, covering of ss. The work t site. Note:-y above the ailable, 4" of rata basis, if r. Or shorter
	173	5000.00	Metre	723.59	3617950.00	AT Par	3617950.00	Above/ Below/Par
173	-		•	•	•		as per Site and app	
							perties (minimum o SI Marked). Inspect	
					oupler as per IS:14		SI Marked). Inspect	ion : Rites Above/
174	mm & mir 174 Descripti RDSO Sp in 6 meter must proof the follow Suitable sitems is 6	5000.00 ion:- Supply of the properties of the p	Numbers f Double Wall RDSO/SPN/2 gth and of siz cense and sho arrangements r with rubber (f pipes supplie	ed Corrugated 04/2011 or late e 120 mm oute should also b D-Ring 2) Spaced.) DWC pipe	3409000.00 (DWC) HDPE Pipst anti-rodent & a er dia IN 103.5 mm under ISO 9000 a e supplied with eers, 3)Tees, 4)Be shall be marked	AT Par pe/duct with nti-oxidant am inner dial and shall sue each pipe and, 5)End-cat every 1	SI Marked). Inspect	Above/Below/Par etc. as per agating type rs, suppliers cate). One of uirement. 1) tity of above a way that
	mm & mir 174 Descripti RDSO Sp in 6 meter must proof the follow Suitable sitems is 6	5000.00 ion:- Supply of the properties of the p	Numbers f Double Wall RDSO/SPN/2 gth and of siz cense and sho arrangements r with rubber (f pipes supplie	ed Corrugated 04/2011 or late e 120 mm oute should also b D-Ring 2) Spaced.) DWC pipe	3409000.00 (DWC) HDPE Piptest anti-rodent & attraction and a supplied with early 3) Tees, 4) Be shall be marked afacture can be early 3409000.00	AT Par pe/duct with nti-oxidant am inner dial and shall sue each pipe and, 5)End-cat every 1	3409000.00 a associated collars and non-flame prop (The manufacture bmit copy of certific as per the site requap (The total quan mtr. length in such	Above/Below/Par setc. as per agating type rs, suppliers cate). One of uirement. 1) tity of above n a way that
	mm & mir 174 Descripti RDSO Sp in 6 mete must proc the follow Suitable s items is e manufact 175 Descripti	5000.00 ion:- Supply of pecification No. ers straight lenduce valid IS lieving coupling snap fit couple equal to no. of urer's name, v	Numbers If Double Wall RDSO/SPN/2 gth and of siz cense and sho arrangements r with rubber (f pipes supplie endor name at Running Metre	ed Corrugated 04/2011 or late e 120 mm oute ould be certified should also b D-Ring 2) Space ed.) DWC pipe nd year of manu	3409000.00 (DWC) HDPE Pipest anti-rodent & aper dia IN 103.5 mm under ISO 9000 appeared with ears, 3)Tees, 4)Be shall be marked afacture can be ear 307300.00	AT Par De/duct with nti-oxidant a m inner dia. and shall su each pipe a nd, 5)End-c at every 1 asily identifie	SI Marked). Inspect 3409000.00 a associated collars and non-flame prop (The manufacture bmit copy of certific s per the site requ cap (The total quan mtr. length in such ed. Inspection: Rites	Above/Below/Par a etc. as per agating type rs, suppliers cate). One of uirement. 1) tity of above n a way that s Above/ Below/Par
174 175	mm & mir 174 Descripti RDSO Sp in 6 mete must proc the follow Suitable s items is e manufact 175 Descripti	5000.00 ion:- Supply of pecification No. presstraight lenduce valid IS lieving coupling snap fit couple equal to no. of urer's name, vice 10000.00 ion:- Placing of	Numbers If Double Wall RDSO/SPN/2 gth and of siz cense and sho arrangements r with rubber (f pipes supplie endor name at Running Metre	ed Corrugated 04/2011 or late e 120 mm oute ould be certified should also b D-Ring 2) Space ed.) DWC pipe nd year of manu	3409000.00 (DWC) HDPE Pipest anti-rodent & aper dia IN 103.5 minunder ISO 9000 applied with ears, 3)Tees, 4)Be shall be marked afacture can be ear 307300.00 along with collars	AT Par De/duct with nti-oxidant a m inner dia. and shall su each pipe a nd, 5)End-c at every 1 asily identifie	SI Marked). Inspect 3409000.00 associated collars and non-flame prop (The manufacture bmit copy of certific s per the site requ cap (The total quan mtr. length in such ed. Inspection: Rites	Above/Below/Par a etc. as per agating type rs, suppliers cate). One of uirement. 1) tity of above n a way that s Above/ Below/Par
175	mm & mir 174 Descripti RDSO Sp in 6 meter must proof the follow Suitable s items is e manufact 175 Descripti crossings	5000.00 ion:- Supply of the cification No. ers straight lend duce valid IS lieving coupling snap fit couple equal to no. of the cification No. of the cification of the cific	Numbers If Double Wall RDSO/SPN/2 gth and of siz cense and sho arrangements r with rubber (f pipes supplice endor name an Running Metre If DWC HDPE ngs etc. Metre	th out socket /cc 681.80 ed Corrugated 04/2O11 or late e 120 mm oute ould be certified should also b D-Ring 2) Spac ed.) DWC pipe nd year of manu 30.73 /RCC/GI pipes	3409000.00 (DWC) HDPE Pipest anti-rodent & aper dia IN 103.5 minunder ISO 9000 applied with ears, 3)Tees, 4)Be shall be marked afacture can be ear 307300.00 along with collars	AT Par De/duct with nti-oxidant and shall su each pipe a nd, 5)End-c at every 1 asily identifie AT Par in trenches	SI Marked). Inspect 3409000.00 associated collars and non-flame prop (The manufacture bmit copy of certific s per the site requan mtr. length in such ed. Inspection: Rites 307300.00 at places near trace	ion: Rites Above/ Below/Par setc. as per agating type rs, suppliers cate). One of uirement. 1) tity of above n a way that s Above/ Below/Par ck and road,
175	mm & mir 174 Descripti RDSO Sp in 6 meter must proof the follow Suitable s items is e manufact 175 Descripti crossings	5000.00 ion:- Supply of the cification No. or straight lend duce valid IS lieving coupling snap fit couple equal to no. of the cification No. or straight lend duce valid IS lieving coupling snap fit couple equal to no. of the cification of the c	Numbers If Double Wall RDSO/SPN/2 gth and of siz cense and sho arrangements r with rubber (f pipes supplice endor name an Running Metre If DWC HDPE ngs etc. Metre	th out socket /cc 681.80 ed Corrugated 04/2O11 or late e 120 mm oute ould be certified should also b D-Ring 2) Spac ed.) DWC pipe nd year of manu 30.73 /RCC/GI pipes	3409000.00 (DWC) HDPE Pipest anti-rodent & aper dia IN 103.5 mm under ISO 9000 aper supplied with evers, 3)Tees, 4)Be shall be marked ufacture can be eas 307300.00 along with collars 106060.00 in level crossing a	AT Par De/duct with nti-oxidant and shall su each pipe a nd, 5)End-c at every 1 asily identifie AT Par in trenches	SI Marked). Inspect 3409000.00 associated collars and non-flame prop (The manufacture bmit copy of certific s per the site requan mtr. length in such ed. Inspection: Rites 307300.00 at places near trace	ion: Rites Above/ Below/Par setc. as per agating type rs, suppliers cate). One of uirement. 1) tity of above n a way that s Above/ Below/Par ck and road,
	mm & mir 174 Descripti RDSO Sp in 6 meter must proof the follow Suitable sitems is effective manufact 175 Descripti crossings 176 Descripti Trunking, of coloure each Gais supervision	sion:- Supply of the cification No. The couple of the coup	Numbers If Double Wall RDSO/SPN/2 gth and of siz cense and sho arrangements r with rubber (f pipes supplie endor name at Running Metre If DWC HDPE ngs etc. Metre pucca roads t Running Metre S&T Cables of cudes laying of esive tapes or cometre post.(() Representative	th out socket /cc 681.80 ed Corrugated 04/2O11 or late e 120 mm oute ould be certified should also b D-Ring 2) Space ed.) DWC pipe nd year of manu 30.73 /RCC/GI pipes 265.15 o original state 5.40 of various cores cables in track any other ider Cables will be e and he will s	3409000.00 (DWC) HDPE Pipest anti-rodent & aper dia IN 103.5 minunder ISO 9000 aper supplied with evers, 3)Tees, 4)Be shall be marked ufacture can be easily and an another isologous along with collars 106060.00 in level crossing a 1053000.00 / pairs/ quads in the crossings & road natifiable material comeggered before	AT Par De/duct with nti-oxidant and shall sue each pipe a nd, 5)End-cat every 1 asily identified AT Par in trenches AT Par at exercian trenches AT Par at exercian trenches AT Par at eafter cat after cat after cat after cat after cat and after ring report	SI Marked). Inspect 3409000.00 associated collars and non-flame prop (The manufacture bmit copy of certific s per the site requan mtr. length in such ed. Inspection: Rites 307300.00 at places near trace 106060.00 ble laying.	ion: Rites Above/ Below/Par etc. as per agating type rs, suppliers cate). One of uirement. 1) tity of above n a way that s Above/ Below/Par Above/ Below/Par DWC pipes/ cion of labels e number at ractor under

17Q

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110	ramming, & sand to protected	curing and pland be supplied as :- Prepar	astering with co by the contract ation of ceme	ement & sand motor). Wherever ent mixture 1:3	nixture (aggregate depth of 0.5 m	not exceed cable trench or's own ma	B: 6. Item includes ing 3.8 cm.) (Aggre in is not feasible, ca aterials and spread d trench.	gate cement ble shall be
	179	3.00	Numbers	170786.69	512360.07	AT Par	512360.07	Above/ Below/Par
179	as per RI 110V AC/ indication supply of	OSO specificati /DC and/or 60\ & buzzer in A material. This	on no. RDSO/ //24V/12V DC SM room at sta includes supp	SPN/256/2002 of measurement in ation. The tendentials of fuse term	or latest having 6- n 19" sub rack ald erer should submi	digit counter ong with insu t three year ning power	age Detector (12 n r, 12 Channel bus bulation resistance m s' warranty certificat supply wires. On jo ion by RDSO.	ar voltage of eter, remote e along with
	180	30.00	Lot	18203.91	546117.30	AT Par	546117.30	Above/ Below/Par
180	RDSO/SF testing co long, 17.2 enhancer terminate (SEEB) = connectin sq. mm m to MEEB	PN/197 Ver.1.0 ertificate of UL 2 mm dia with one material erearth rod - 1 and 1 no. (ii) Supag main earth enulti strand sing (minimum 10 r	or latest and, IEC to be proceed to be proceed to be proceed to leave the proceeding of the proceeding	conforming to loduced. It consigns thickness of maled bags of miler strip of 3000mm multi strandeEB in the equiposulated copperpoly of 10 sq. m	RDSO Drg. No. S ist of following: (a ninimum macrons nimum 10 kg = 3 (25x6 mm (MEEE d single core PVC oment room in dup cable as per IS: (m multi strand sin	DO / RDSO (1) Copper b and UL liste nos. (c) Co (3) = 1 no. (c) (4) insulated collicate. (mining (6) for configle core PV	arth as per RDSO / E&B/001 or Latest onded steel electro ed and marked = 1 i opper strip of 150x2 e) Copper strip of I copper cable as per mum 10 meter) (iii) necting MEEB to SE C insulated copper eeve for 3/16 cable	t. Necessary de of 3.0 m no. (b) Earth 25x6 mm, to 50x25x6mm r IS: 694 for Supply of 16 EB and SPD cable as per
	181	30.00	Set	6107.87	183236.10	AT Par	183236.10	Above/ Below/Par
181	earth to the Provision material that 1.5 ft. 1 ft earth to the meter long copper be latest. Cox 25 mm bus bar in enhancer (Inside dithis item	he required de of exothermic cools and featu t wall thickness pusbar, busbar by high tensile conding thickness per strips of x 6 mm for man relay room, ment material imension) of ay shall be carried	pth. (ii) Insertice weld connection weld connection in the series required for a content of the series of 250 mice. The series of 250 mice. The series of 250 mice. The series of 250 mm x 25 mice. The series of 250 mm are approximate 50 mice. The series of 250 mice. The	on of electrode. ons to copper to ons to copper to or weld will be an over 3 inch thick d bus bars to valued circular rods or ons to made of om x 6 mm to be ontial bus bar, co ond panel room. The Earth Electro omm thick with poontractor as persons to copper to the contractor as persons to copper to the contractor as persons to copper to the copper to	(iii) Filling of eart ape of 25 mm x 6 rranged by contra ness. Cables 35 S rious equipments molecularly bondor equirement of ur be welded with ear opper strips of 15 GI strip 25 mm x de. Inspection cha bulling hooks to co	h enhancing mm x 150 ctor. (v) This Sq mm / 16 Sq mm / 16 Sq ed with coppider writer's ch earth election mm x 25 2 mm for riamber of sitover the eart. No RDSO	em. It includes (i) g compound (Appromm to the earth else also includes CC of mm/10 sq mm for trode of 17.20 mm of trode of 17.20 mm of trode, copper strips mm x 6 mm sub equal formation of ear e 300 mm x 300 mm th pits. Note: The in /SPN/197 Ver.1.0 of ee"	x.30 Kg) (iv) ectrodes. All cover 1.5 ft x r connecting dia and 3.00 ce (minimum 467-2007 or s of 300 mm uip-potential th pits Earth m x 300 mm estallation of or latest and
	182	100.00	Numbers	1522.81	152281.00	AT Par	152281.00	Above/ Below/Par
182	pipe show with clam threaded	uld be with 3 m up of MS FLAT cap. Materials or value of materials	nm thick, 50 m (galvanised) o to be procure	m dia and performance of size 35 mm : ed and designer	orated(staggered) x 6 mm (SPEC. N d as per CSTE/E	,5 mm dia h NO.226 STD R'S DRG.N	o(PART-I) -1979.ean noles, 2 nos per 309 I). Earth pipe shoul O.S&T-1/2007. Insp value of material be	5 mm length d include Cl pection: - BY
	183	200.00	Numbers	874.83	174966.00	AT Par	174966.00	Above/ Below/Par
183							x 6 mm with lengt st). Inspection : by c	h 5 mtr with
	184	200.00	Numbers		240662.00		240662.00	Above/ Below/Par

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184	length 5 r cases, sig cases/ sig 40 mm sh from outs the contra and other	mtr or as per e gnal post & oth gnal post/other nould be welde ide or from ins actor for fixing miscellaneous lat. Note:-all m	extant practice of the requipment of the equipment should be required by the requirement of the requirement	of Eastern Raily as per instruction ould be made b ratus cases in s arrangement wi uipment end wh uired for installa	vay. As per CSTE, ion of site engine y the firm at site. uch way that the th accessories an ere required as pation to be supplie	PER'S DRG er. Provision Full threade MS flat at a d welding n er instruction d by the co	at of size 35 mm x NO. S&T 1/2007 for for fixing MS flat a d bolts of 10 mm di pparatus case end naterials should be n of site engineer. Intractor except eart 2 core cable will be	or apparatus at apparatus a and length can be fixed arranged by All hardware h electrodes
185	185	200.00	Numbers	591.93		AT Par		Above/ Below/Par
	_				inspected by cons		DRG. NO. S&T/C-36	o(INNG). THIS
	186	1.00	Set	484745.69	484745.69	AT Par	484745.69	Above/ Below/Par
186	amendmer roller type booms, 2 weights a buttons a set. This arrangem items incl be done to room. The amendmer arequiremer Contactor type and	ent. One set of a limit switches nos. of steel ond 2 nos. of b nd indicating la includes suppertand 20 Wouding supply on the contract e complete electric inspection is below - Follogent of the pure 1 no. v) Mod 2 top roller type on the contract type of the pure 1 no. v) Mod 2 top roller type	onsisting of 2 r, hand crank, 2 octagonal bool oom support vamps, motor c ply and instal att horn working f nuts & bolts, or for commissectric lifting barbaser i) Stee for protection Noe) viii) Fuses	nos. of lifting ba 2 electric motors ms of 32 feet le with motorised b connectors and I llation of gate ag on 24 V DC/ foundation as re sioning. Only 23 rrier set shall c g with Spares & nall be supplied I boom - 1 no. MCB- 1 no. vi) F used - 2 sets T	rrier pedestals, e.s., 24vdc of capacingth with 2 nos. Stoom locking but with 2 and locking but a MCB and hand get hooter - 1 no a 110 V AC- 1 no with a more alongwith each stoom locking alongwith each stoom locking button complete. ii) Bel Push button complete of the stoom locking alongwith each stoom locking with a locking with a locking button complete. iii) Bel Push button complete of the stoom locking alongwith each stoom locking alongwith each stoom locking alongwith each stoom locking alongwith each stoom locking along with a locking along with a locking along the stoom locking along with a locking with a locking with a locking along with a locking with a l	ach with 8 of ty suitable to stop boards without fring enerator (24 and Dual Trith all fixing of cement, collection of the arrange SPEC NO. If I in RDSO Set (02 nos. of standard stand	pec. SPN/208/2012 contact circuit control of operate barriers up, boom light boxes, es along with control VDC) to operate 2 one Bell /Buzzer warrangements. All of civil work materials a certain by the railway in RDSO/SPN/208/2012 of Electric lifting be control of Electric liftin	oller with top upto 32' long MS counter of panel with barriers of 1 with Flasher of the above nd etc. Shall nearby relay 2 with latest clause 10.1 arrier as per 10. iv) Motornos. (1 lever
	187	1.00	LC Gate	48534.29	48534.29	AT Par	48534.29	Above/ Below/Par
187	of cemen rest post,	t concrete fou	ndation (includer supply conne	ding supply of s	and, stone, ceme	ent, bolt, pla	g barrier, complete ate etc.) for pedesta as per approved dra	al and boom
188	188	2.00	Set	1772.70	3545.40	AT Par	3545.40	Above/ Below/Par
	-			reflective sneet spection: Consig		smatic grad	e reflective sheets of	of size 305 x
	189	1.00	Numbers	21965.30	21965.30	AT Par	21965.30	Above/ Below/Par
189	system a switch(Gr No. iv) Ve 1 No vi)G yellow-4 quality 6" switch an wiring ,ca	s per CSTE/ een) - INo ii) F eeder counter t Good quality 10 No ix)Robust x6" box with to d veeder coun	ER'S Typical Rugged 'NO' pro record the community of the community of the control	circuit diagram ess switch (Recount of emerger een- INo vii)Goo rd with white h ver with locking eactor has to pro	No-S.I./TYP/ 00 d)- INo iii) Robust ncy key operation od quality 10mm I ylam sheet top (and sealing arra byide all other iten	62 Which type rotary - INo v)Super LED Red-1 approx dimingement to require li	and emergency ke requires i) Rugged switch similar to P.I. erior quality 24VDC No viii)Good quality ension 8"x12"x2")-accomodate emerging the flexible wire 16/0 item from item no	'NO' press SM'S key-1 pizo buzzer- 10mm LED INo. x)good gency rotary 0.2sq mm for
	190	1.00	Numbers	16041.40	16041.40	AT Par	16041.40	Above/ Below/Par
190	size as p height for operation	er site engine mounting of for gate close	er and as per panel, cable e & open instea	signalling plan ntry in panel w	including supply ith 50 mm dia ga e switch for signal	of wooden llant. Note-	um-indication panel table (hard wood) gate panel should referably should ha	of required of standard have button

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	101	0.00	Number	E0E0 00	10101.04	AT Dox	10101.04	Above/
191	191	2.00		5050.82		AT Par	10101.64	Below/Par
	Descripti	on:- G.I. toun	dation 'A' type '	with hole SPEC	.IRS-5- 10/78 (LA	IESI). Insp	ection - Consignee.	Above/
192	192	2.00		1766.82		AT Par	3533.64	Below/Par
	Descripti	on:- C.I. foun	dation 'B' type	with hole SPEC	.IRS-5- 10/78 (LA ⁻	ΓEST). Insp	ection - Consignee.	
193	193	4.00	Numbers	2800.86	11203.44	AT Par	11203.44	Above/ Below/Par
190	-	on:- Casting cement, sand		oundation for fi	xing adjustment	arc lever, a	ccommodating cra	
	194	5.00	Numbers	53725.31	268626.55	AT Par	268626.55	Above/ Below/Par
194	51/2011 F years full	REV 4.0. Inspe warranty. Not ores. 2)Insta	ection-consigne e: - 1) the date	ee. Material to b of manufacture	e supplied from Re of the item shoul	DSO's appr d be of curr	OSO SPEC.NO.RDS oved source only went year at the time recording facility.	ith 03(three) of supply to
	195	5.00	Numbers	7513.37	37566.85	AT Par	37566.85	Above/ Below/Par
195				er telephone w material to be s			y. This Includes er site requirement.	
196	196	5.00	Numbers	5600.61	28003.05	AT Par	28003.05	Above/ Below/Par
	Descripti	on:- Supply o	f Gate (slave)te	e1ephone. Insp	ection : Consigned	Э.		
l	197	5.00	Numbers	797.18	3985.90	AT Par	3985.90	Above/ Below/Par
197				e)telephone. The		g and comm	nissioning, all install	ation related
198	198	5.00	Numbers	7239.08	36195.40	AT Par	36195.40	Above/ Below/Par
190	Descripti Consigned		f 24V Power s	upply unit with	MF Battery and 0	Charger for	Master Telephone.	Inspection:
	199	5.00	Numbers	1025.10	5125.50	AT Par	5125.50	Above/ Below/Par
199		esting and co					er for Master Tele d by the contractor	
200	200	2.00	Numbers	34236.05	68472.10	AT Par	68472.10	Above/ Below/Par
200	-				ONAL PANEL (DP EPRESENTATIVE	•	PEC. NO. RDSO/SF E/HWH	PN/186/2004
	201	6.00	Numbers	203.55	1221.30	AT Par	1221.30	Above/ Below/Par
201	For each including	phone with supply of 2 no	wooden batter	ry box. This in each telephone	cludes supply of	magneto t	cessories and dry celephones with all SPEC.FOR magne	accessories
000	202	6.00	Numbers	3664.64	21987.84	AT Par	21987.84	Above/ Below/Par
202	Descripti by consign		f magneto tele	phone, desk typ	oe, spec. No IRS-	TC-79/ 200	O AMDT. 1 or latest	. Inspection:
	203	2.00	Numbers	5399.31	10798.62	AT Par	10798.62	Above/ Below/Par
203	Description:- Supply of Universal 2/4 wire way side DTMF control telephone as per RDSO spec. no. IRS: TC:82 2005 (with Amdt. 3) or latest. Inspection: Consignee							
	204	2.00		4020.95	8041.90	AT Par	8041.90	Above/ Below/Par
			•					

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	equipmer		pe (12V/7AH)			-	ation suitable to ope RDSO spec. No. IR	
	205	2.00	Numbers	7213.98	14427.96	AT Par	14427.96	Above/ Below/Par
205	(with 4 w	vire telephone	as per spec.	No IRS- TC@4		est. Make- I	IRS- TC@45<45@ Bentron, Epsilon or	
	206	2.00	Numbers	1350.65	2701.30	AT Par	2701.30	Above/ Below/Par
206	latest(wi		none as per s	oec. No IRS-TC			ec. no IRS-TC@47	
	207	10.00	Numbers	840.04	8400.40	AT Par	8400.40	Above/ Below/Par
207	_	ion:- Supply, F	-	ing of 10 Pairs	Krone type D.P	. box as pe	er Tech spec, mak	e Hensel or
	208	10.00	Numbers	1208.70	12087.00	AT Par	12087.00	Above/ Below/Par
208	-	ion:- Supply, F	-	ing of 20 Pairs	s Krone type D.P	. box as pe	er Tech spec, mak	e Hensel or
209	209	135.00	Metre	45.28	6112.80	AT Par	6112.80	Above/ Below/Par
	Descript	ion:- Supply of	PVC cable ch	annel of 15 MM	x 15 MM I as per	specificatio	n. Inspection: consi	gnee.
	210	135.00	Metre	18.48	2494.80	AT Par	2494.80	Above/ Below/Par
210	-		-		VC channel on w erial to the railway	-	supply of all fixing	materials &
211	211	138.00	Metre	66.54	9182.52	AT Par	9182.52	Above/ Below/Par
	Descript	ion:- Supply of	PVC cable ch	annel of 25 MM	x 25 MM as per s	specification	. Inspection: consig	nee.
212	212	138.00	Metre	20.33	2805.54	AT Par	2805.54	Above/ Below/Par
212			J		VC channel on w erial to the railway	_	supply of all fixing	materials &
	213	10.00	Numbers	8415.19	84151.90	AT Par	84151.90	Above/ Below/Par
213	-				l 19",9U Steel Rad W or Similar. Insp		00mm Section with the signee	an and 6 no
	214	2.00	Numbers	290541.20	581082.40	AT Par	581082.40	Above/ Below/Par
214	conformir supply, 2 and 2 no DDFs an Ethernet DDF insta Necessar Firmware	ng to GR No. T no. STM 4 of a ss. of STM-1 S d cable assem on SDH [EoS] allation materia cy/ Firmware for interface to	EC/GR/TX/SD aggregate L.4 1.1 optical in ably for termin 10/100 Base- al, manuals an or local/remote work all Netw	H 010/03.Jan 2 .2 Optical interface modules ation to DDF a l interface modid other accesses monitoring/ cooks elements	011 (with latest and ace modules/ Cares complete with 5 and minimum 8 nule/card supporting cries. Complete Eonfiguration of the as Gateway Net	mendment) ds one each i mtrs long os. of 10/10 ng with LCA ngineering one e equipment work Eleme	d-Drop STM-4 SDM complete with reduit in for East and west optical fibre cords, 00 Base-T Ethernet S and GEP, order worder wire (EOW) and through EMS arent [GNE], 2 nos odules. "Inspection	ndant power side, TX/RX 21 E1s with ports, Fast vire subrack rrangement. d Software/ of MCBs of
	215	2.00	Numbers	24389.88	48779.76	AT Par	48779.76	Above/ Below/Par
215	-	ion:- "Installati esired by the si		issioning of ST	M-4 in the existing	ng rack with	ready infrastructur	
	216	3.00	Numbers	23941.90	71825.70	AT Par	71825.70	Above/ Below/Par
216								

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	174 MHz connecto	(full band), wit rs, with 3m of	h DTMF micro	ophone and cor nd 12V/13.5V I0	ds, with GP anten	na, 30 m of er supply st	in frequency band feeder cable and s uitable for 25W VHF SO	suitable BNC
	217	3.00	Numbers	21043.49	63130.47	AT Par	63130.47	Above/ Below/Par
217	DC DC c from -48\ output sh 2 mA, inp	onverter shall / nominal input ort circuit prote ut- output insu	be independe t (-48V to -60V ection & ripple lation by 2.5 K	nt for each vhf	base equipment utput 12V DC. The an 5mv for telecor	(voice equi e power cap n circuit. Sh with ERTL	V.H.F. as per speci pment) and shall a acity to deliver 10A ort circuit current no certification. Make:	llow to work current with ot more than
	218	2.00	Numbers	14038.23	28076.46	AT Par	28076.46	Above/ Below/Par
218	channel s nominal v DC conve	shall be 600 of roice frequency erter. Burn in of	nms balanced is signal shall be fithe complete	4W (viz. 2W for e 0 dbm level the equipment at 5	or transmit, 2W fo ne buffer amplifier	r receive) a should wor	V.H.F. As per voic and 2W for E&M sig k of -48vdc or can f infancy failures. Du	nalling. The rom the DC-
	219	3.00	Numbers	60227.20	180681.60	AT Par	180681.60	Above/ Below/Par
219		E FOR INTERF		•			ROTOCOL CONVE NG EQUIPMENT. II	
000	220	3.00	Numbers	776.55	2329.65	AT Par	2329.65	Above/ Below/Par
220	Descript consigned		of V.F. transf	ormer 1220:60	0/470 /:1220 as	per IRS:TC	-22/ 76 or latest.	Inspection -
	221	3.00	Numbers	456.15	1368.45	AT Par	1368.45	Above/ Below/Par
221	Descript consigned		on of V.F. trai	nsformer 1220:	600/470 /:1220 a	s per IRS:T	C-22/ 76 or latest.	Inspection:-
	222	5.00	Numbers	7248.91	36244.55	AT Par	36244.55	Above/ Below/Par
222	surge pro antenna specificat	otection for co and 25 W VH ions. this inclu	paxial signal, i IF sets, make udes mounting	nterfaces N-co - Phoenix Con g plate and res	nnector plug/socl tact model CN-U	ket installed B- 280DC-S surge arres	t plug module with I as surge protecti SB-28 18148 or sin tor (one no.) with	on between milar as per
	223	3.00	Numbers	6423.95	19271.85	AT Par	19271.85	Above/ Below/Par
223	equipmer tenderer	nt room and lig	htning arrestor material to be	rs also to be mo	ounted on a GI pip	oe. All fixing	nich is to be fitted o materials to be sup enna, GI pipe(50 r	oplied by the
	224	10.00	Numbers	116903.87	1169038.70	AT Par	1169038.70	Above/ Below/Par
224	consisting be got ap core i7 or front and or Bigger Combo D	of a PC (Mak oproved from the r higher version four rear USB Size, Sound C Drive, Microsoft minimum back	e- Dell /HP or ne Engineer in n processor (s port,1 Serial 8 ard with Speal Windows 10	Equivalent) as charge before peed 3.2 GHZ, k 1 Parallel Port ker,1000 MBPS Licensed OS w	per Technical Spe supply. Note: The 4 MB cache mer ;,1VGA Port,21" L Network Card, Ke ith Licensed (Anti	ecifications. e minimum s nory), 8 GB ED Colour M eyboard, Op ivirus, MS C	Goftware (Datalogge The specification of specification should RAM,2TB HDD or Monitor (HP/DELL o trical Mouse,10/100 Office etc.),UPS 750 o 1108 or superior)	FAS should be as given Higher, Two r equivalent) T Lan Card, VA with 30
	225	30.00	Numbers	3686.55	110596.50	AT Par	110596.50	Above/ Below/Par
225	_	t amendment				-	ion no. G/OJC-02/0 es for fibre splicing.	1, March'99

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	226	30.00	Numbers	11008.36	330250.80	AT Par	330250.80	Above/ Below/Par		
226	of joint cl	osures in the	pit required a	t various locati		sportation	of termination box/of all the jointing & railway store.			
	227	2.00	Set	108331.15	216662.30	AT Par	216662.30	Above/ Below/Par		
227	Service to equipment recomme This shall measuring tester, du 287/ Rish	est panel inclut and standanded list adeq lalso include g set as per R mmy wheel, to abh Model 28:	luding meter fard jig for dri uate for installakit for making DSO SPEC. To orque wrench (s. Each measu	for test of trace lling holes in ation, day to da and drilling of h C 45-88 or lates 2) multimeter slring tools & equ	k equipment, too rail. It should be y maintenance, an loles on rail. Note st, dB meter for mould be pure sine ipments to be supplements to be supplements.	ols for mounted as per Fund adjustments: (1) this all easuring at the wave digital policed with C	section. This include nting and adjustme Principal manufactu ent of indoor and ou so includes supply tenuation loss & 500 al multimeter make DEM'S test certificate ument. Inspection:	ent of track rers (OEM) tdoor gears. of cross talk 0v insulation Fluke Model e/ guarantee		
	228	200.00	Metre	254.40	50880.00	AT Par	50880.00	Above/ Below/Par		
228	Descript LAYING	ion:- RE-INST	TATEMENT O	F PLATFORM	AND REPAIRING	G TO ORK	GINAL STATE AFT	TER CABLE		
	229	38.00	Numbers	733.42	27869.96	AT Par	27869.96	Above/ Below/Par		
229	FOLLOW COATING ENGG. M SUPPLY FOLLOW YELLOW: COMPLE	ING SIGNALL A FOLLOWED IANUAL). ALL APPROVED Q IING. ALLUMIN : ISS:356 & IS TE WITH POS	ING EQUIPMI BY FINAL PA MATERIALS V UALITY OF PA VIUM: IS:2339 5:8662 OR LAT	ENT.THIS INCL INTING. (COLO WILL BE SUPPI AINTS LIKE ASI 9/63 WITH AMD EST RED OXID DER STAGE ET	UDES SCRAPING DURS OF THE SI LIED BY THE CO AN / BARGER / S DT.1 OR LATEST. DE: ISC:446 & IS	G OF OLD GNALLING NTRACTOF HALIMAR. (BLACK: IS ::123/62WIT	TION OF PRIMEI PAINT & RUSTS A EQUIPMENT AS P AND CONTRACTO GRADE OF THE PA 8662/93 OR LATES H AMDT.1OR LAT GON SIGNAL, SHU	AND PRIMA PER SIGNAL OR HAS TO INT AS PER ST GOLDEN EST MACLS		
	230	27.00	Numbers	185.20	5000.40	AT Par	5000.40	Above/ Below/Par		
230		. THIS INCLU					IACHINE NUMBER PER INSTRUCTIO	IN WHITE		
	231	27.00	Numbers	69.03	1863.81	AT Par	1863.81	Above/ Below/Par		
231		on:- POINT J NT NUMBERB	`	SIDE ALLUMINI	UM AND OUTSID	E BLACK).	THIS INCLUDES W			
232	232	27.00	Numbers	193.96	5236.92	AT Par	5236.92	Above/ Below/Par		
	Descripti	on:- PAINTIN	G OF GROUN	D FITTING OF	POINT MACHINE					
	233	100.00	Numbers	2558.00	255800.00	AT Par	255800.00	Above/ Below/Par		
233	memory f		user specific		•		S&T Cable with pro	-		
234	234	19.00	Numbers	2558.00	48602.00	AT Par	48602.00	Above/ Below/Par		
	Descripti	on:- Single pւ	ısh button teler	phone. Inspection	on : consignee		1			
235	235	5.00	Day	3533.00	17665.00	AT Par	17665.00	Above/ Below/Par		
	Description:- Hiring of DG 2 nos round the clock during non interlocking period including supply of Diesel									
	236	5.00	Day	10233.00	51165.00	AT Par	51165.00	Above/ Below/Par		
			•					Bolow, a		
236	Descript i	y goomty 4 no	of Communions S Chair-12 Nos	s, Table 4 Nos f	or Operational fac	cility during	ocking period and NI Period. All requir nt at site Goomty as	provision of ed materials		

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Tender No: SDSTE-GSU-RNGR-MSAE Closing Date/Time: 22/05/2023 15:00

237	Description:- Preparation of Cable Route Plan , Cable Core Chart, SWRD, Power Supply Layou Termination Chart, in Relay Room, Location Box, Location Wiring Plan, Cable Insulation Chart, Fuse Equipment disposition plan, Track Bonding Plan, , work to be made by qualified engineer convers Signalling work along with endrosement.Note: Cable protection arrangement and the tail cables should be in the cable route plan.				use Analysis versant with					
	238	2.00	Numbers	2181.98	4363.96	AT Par	4363.96	Above/ Below/Par		
238	DC-DC si	mplex VHF ba ipment, DC-D0	se equipment,	DC-DC conver	ter, buffer amplifie	er and laying	SIMPLEX VHF base g of co-axial cable s of suitable size and	simplex VHF		
000	239	17.00	Month	43300.00	736100.00	AT Par	736100.00	Above/ Below/Par		
239	-	_	Vehicle non A cludes driver a	-	s Cab & Taxi Hirir	g Services	- SUV; 24x7; Local	24*7 on Km		
	240	1.00	Numbers	50430.84	50430.84	AT Par	50430.84	Above/ Below/Par		
240	to be sup	plied by the c		ired for the wor			anel Face Diagram. ose to be procured			
241	241	2.00	Numbers	811.52	1623.04	AT Par	1623.04	Above/ Below/Par		
	Descripti	on:- Releasing	g of existing bl	ock instrument a	and allied gadgets					
	242	2.00	Set	9151.63	18303.26	AT Par	18303.26	Above/ Below/Par		
242	Description:- Installation, interconnection and commissioning of single / double line/ tokenless block instrument in the station. All materials (except block instrument) to be supplied along with wooden stand for keeping the instrument, filter unit & block bell.									
0.40	243	2.00	Numbers	35887.81	71775.62	AT Par	71775.62	Above/ Below/Par		
243	Description:- Supply of Panel cum Block Instrument table complete as per approved drawing. It includes any modification to it if required by Engineer-in-charge at site. Inspection: Consignee									
0.4.4	244	2.00	Numbers	4327.48	8654.96	AT Par	8654.96	Above/ Below/Par		
244							. No. IRS-TC-44/ 8 pection: by RDSO	8 (LATEST).		
245	245	2.00	Numbers	9989.43	19978.86	AT Par	19978.86	Above/ Below/Par		
	Description:- BLOCK BELL. Inspection: by RDSO									
246	246	2.00	Numbers	4610.31	9220.62	AT Par	9220.62	Above/ Below/Par		
	Descripti	on:- BLOCK T	ELEPHONE. I	nspection: by R	DSO					
247	247	2.00	Numbers			AT Par	589696.98	Above/ Below/Par		
	Descripti	on:- Supply of	f Double Line E	Block Instrumen	ts(DLBI) RDSO ty	pe (MFG)	I			
	248	114.00	Man-Days	372.00	42408.00	AT Par	42408.00	Above/ Below/Par		
248	Inspector, Petrolmer	Description:- Supply of Labour for Installation & Taking Measurement of Signalling Gears Assistance to Inspector/Officer during supervision of field work in measurement. By action as look out men, Chowkiders, Petrolmen, etc and to assit in Office work as per instruction of Site Engineer In Charge. The inspector concerned well maintained proper record of supply of labour by the agency.								
	249	5.00	Numbers	27538.37		AT Par	137691.85	Above/ Below/Par		
249	_	ion:- "Supply rspection : Cor		commissioning	of 500 watt Amp	olifier Make	Ahuja model SSA	5000EM.or		
250	250	14.00	Numbers	6344.42	88821.88	AT Par	88821.88	Above/ Below/Par		
200	Descripti	on:- Supply of	f high fidelity P	A horn speaker	IP-65 rated mode	I AMH-402T	, make Ahuja or sin	nilar.		

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3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Important: All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Special 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)

Special Technical Criteria

S.N	lo. Description	Confirmation Required		Documents Uploading
1	The tenderer must have successfully 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 costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works costing not less than the amount equal to 40% of advertised value of the tender, or One similar work costing not less than the amount equal to 60% of advertised value of the tender. Similar Nature of work for this tender is -" Panel Interlocking work {Indoor or (Indoor+ Outdoor)}/ Route Relay Interlocking work {Indoor or (Indoor+ Outdoor)} of RDSO approved make)".	No	No	Allowed (Mandatory)

Submission of Document Verification Certificate

S.No.	· •	Confirmation Required		Documents Uploading
1	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	INo	Allowed (Mandatory)

5. COMPLIANCE

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Commercial-Compliance

S.No.	· ·	Confirmation Required		Documents Uploading
	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.		Vac	Allowed (Optional)

Technical-Compliances

S.N	Description	Confirmation	Remarks	Documents
		Required	Allowed	Uploading

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Tender No: SDSTE-GSU-RNGR-MSAE Closing Date/Time: 22/05/2023 15:00

1	Successful bidder has to subr	t MOU from	RDSO	approved	firm	before	Yes	Yes	Allowed
ľ	starting execution of work.						103	100	(Optional)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	E-TENDER-DOCOPENTENDER_1.pdf	E Tender Document
2	DescriptionofSchitemno1.pdf	Description of Sch item 1
3	Annexure-VI-ABidSecurity.pdf	Annexure VI A
4	Annexure-VI-BAnnualturnoverdeclaration.pdf	Annexure VI B
5	Annexure-X.pdf	Annexure X
6	Annexure-XI.pdf	Annexure XI
7	CheckListAnnexItoVIII.pdf	Chek list Annexure I to VIII
8	GCC_April-22_pdf_27.04.22.pdf	GCC ACS 14th July 2022
9	GCCACS14thJuly2022.pdf	GCC ACS 14th July 2022
10	Termsofpayment1.pdf	Terms of Payment
11	Updatedtenderdocument.pdf	Updated Tender Document
12	Annexure-IX.pdf	Annexure IX
13	Description of Mail ntenance for Schedule I tem No. 4. pdf	Description of Maintenance Item 4
14	TentativeSIPMSAE.pdf	Tentative SIP

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: ARYAN KUMAR

Designation: DSTE/1/HWH

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