

# ***S. GROUP OF FOUNDATION***

***We Are One Stop Solution***

## **Signal & Telecom Solutions**

**We will Provide  
Inspection By RDSO &  
RITES As Per Required  
Description**

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## ***Describe of all S&T Materials***

1	Maintenance free earth 197/2008(with all accessories including cable)
2	Supply of insulation for 'L' bracket for IRS type point machine fitting Cosisting of Insulation plate- 01 No., Ferrules- 2 Nos. Washers- 4 Nos. (Material Nylon- 66).Inspection by
3	Supply of Gauge tie plate insulation as per RDSO drg.no. T-10372/ Alt. 2, T-10371/Alt.2 ,T10368/Alt. and to IRS S-23 and S-40. Inspection by consignee
4	Supply of insulation for 'P' bracket for IRS type point machine fitting. Cosisting of Insulation plate01 No., Ferrules- 2 Nos. Washers- 4 Nos.
5	Supply of william stretcher bar insulation set suitable for ground connection RDSO Drg n. T-1.367,T-10368, T-10384 to IRS-23 and S-40 with latest amendement. The material should be procured from RDSO approved firm. Inspection by Consignee
6	Supply of Andig Make Cable Fault Locator Model No- 5289 Inspection by consignee
7	Cable Fault Locator (Stanley)
8	Apparatus Case Full
9	Apparatus Case Half
10	Shunt Signal Complete
11	IP Commnication
12	IPS Module 24-32 volt
13	Krone Purchasing Tool
14	Secureye SM/SF 10/100 Base TX to 100 base FX Media Converte
15	DP Box 2o Pair
16	TP 850 ADSL
17	HDPE 40.33 (RDSO)
18	24 Fibre Armoured Optic Fiber Cable
19	8PCM ISAD Multiplexer
20	Sliding Boom As per Ner Dwg no. SW-17150200



21	KICR
22	QNA1
23	QTA2
24	QSPA1
25	QBCA1
26	QNA1K
27	QNNA1
28	QNN1
29	QL1
30	QN1
31	Point Contractor
32	48V25Amp SMPS modules
33	Optical Fiber Joint Enclosure 24 Fiber
34	24 Port 10/100/1000, layer 2
35	Electronic LC Gate Telephone System as per RDSO Specification No. RDSO/SPN/TC-51/2011 Revision - 3.0 with Amendment No.1. (WITHOUT VOICE LOGGING FACILITY) Master Telephone
36	Electronic LC Gate Telephone System as per RDSO Specification No. RDSO/SPN/TC-51/2011 Revision - 3.0 with Amendment No.1. (WITHOUT VOICE LOGGING FACILITY) Slave Telephone
37	24V DC Power Supply Unit with MF Battery
38	Secureye SM/SF 10/100 Base
39	Krone Punching tool
40	24 Fibre Armoured Optic Fiber Cable
41	Pvc Insulated cable 60C x0.60 mm
42	Pvc Insulated cable 1 x 24 x 1 mm
43	Single Core Multi Strand Wire 16 x 0.2 mm
44	Flexible cable 1 x 6 sqmm
45	Flexible cable 1 x 16 sqmm
46	Pvc Insulated cable 40C x0.60 mm
47	Independent Shunt Signal Complete
48	PPTC Fuse 2/6 Amp 30 Volt
49	FRP Enclosure Of Size 350 mm height x 250 mm width x 150 mm depth with 6 mm thickness
50	FRP Enclosure Of Size 260 mm height x 260 mm width x 150 mm depth with 6 mm thickness



51	FRP Enclosure Of Size 800 mm height x 650 mm width x 300 mm depth with 4 mm thickness
52	DIGITAL TMS KIT AS PER RDSO SPEC.NO IRS/TC-43/87 WITH LATEST AMENDMENTS MAKE:- ANUVIDYUT PVT LTD
53	PACETRACE(UK) P700 UNDERGROUND LIVE CABLE LOCATOR
54	DXL3 Cable Avoidance tool with SGA3 Signal generator & Signal Clamp
55	ST25 TDR Cable fault locator 8kms with Bridge
56	DD120 Cable Avoidance Tool (Receiver & Transmitter -ACCESSORIES: DIRECT CONNECTION WIRE EARTHING ROD, DIRECT CONNECT CABLE(UTILITY SIZE: CLIP 5/8", GROUND ROD, CABLE USER GUIDE, PENDRIVE)
57	3C X 2.5 SQ.MM 1.1KV XLPE CU ARMD CABLE AS PER IS: 7098-I Make- Havells/Polycab
58	120mm OD DWC Pipes.
59	Supply of Indoor Telephone PVC Cables 10 pair 0.5 mm
60	19" 6 U wall mounted Rack
61	19" 12 U Rack
62	egate K9 Android 4000 Lumens LED
63	ELCOR lite series Electric projection screen 150" Diagonal In 4:3 Format
64	HDMI Splitter 2.0 / 1 In 4 Out
65	HDMI Cable 10 Meter with Connector
66	Laser Pointer
67	1.5 Sqmm X 12 Core Copper Armoured (as per IS:7098)
68	Copper bus bar electric grade 50mmx6m 200kg 25mm x 4mm 500kg 100mmx 6mm 200kg
69	CAT4+, Metric with Depth 10/CAT4+XX11 GENNY4 with Bag 10/Signal Clamp/BAGPACK4-UK
70	ARA Terminal



71	SS (Finish) Wire Mesh as per IS 2405/63 1.4 MM Op. x 0.35 MM Wire Dia Roll Size - 3' x 100'
72	Polyfien cable channel of size width 240/340mm :
73	Electronic Magneto Telephone Desk Type as per RDSO Specification No. IRS-TC-79/2000
74	Hand Driven Megger Range 500 V
75	G.I. Pipes with thread collars ( Coupling Socket ) 80mm nominal bore,
76	G.I Pipes 100mm dia B class medium
77	Annunciator for Multiway Telephone Exchange 10 Lines (Suitable for Magneto Telephone as per IRS-TC- 36/97) (METAL BOX TYPE)
78	Annunciator for Multiway Telephone Exchange 10 Lines ( <u>Suitable for Magneto Telephone as per IRS- TC-79/2000</u> ) (METAL BOX TYPE) .
79	Alarm Bell with Pilot Lamp ,24 VDC Transmitting visual signal and audible signal simultaneously by the bell and pilot lamp. Bell Volume : 90±5dB At 1m Material : Bell-Steel, Housing(Body)- ABS Protection Class : IP56
80	Gong Bells, single, 6", Make : Indian Single phase, 220/250V
81	SMPS Based battery Charger 48V/50A (2+1)
82	Battery Charger 12v10amp.
83	Battery Charger 24v10amp
84	Smps Battery Charger 12vdc 10amp
85	Smps Battery Charger 24vdc 10amp
86	DYNAMIC BRAKING RESISTOR
87	12-inch(300mm Digit height) GPS Digital Clock Single face
88	12-inch(300mm Digit height) GPS Digital Clock Double Face
89	KRONE TOOL
90	Threaded type ground fittings for IRS type point machine as per E.Rly Drg No. /29/721,722,723, 724,725,726,726A,726B,726C and 727 or latest.
91	Tubular steel signal post for independent shunt signal as per IRS: S-6/81 or latest complete with bracket, foundation bolts, signal base, etc.



92	Track Feed battery Charger working on 110V AC, 50Hz , 10A for Charging 1 or 2 or 3 lead acid cells of 80AH capacity as per IRS: S-89/2013 (Ver.1.0) or with latest amendment / specification
93	Track lead junction Box & Angle for TLJB (mounting stump) complete with cover made of FRP materials as per RDSO specification No. RDSO/SPN/151/1997 or latest complete with two bakelite brass terminal blocks, HDPE pipe, M10 terminal links as per technical specifications
94	Track Feed Variable resistance(with Phenolic moulded base ) 0-30 ohm as per specification IRS: S-23 and Drg. No. SA-20166 with latest amendments /specification
95	Supply of B type Choke as per RDSO specn No. IRS : S-65/83(Amnd.3) or latest
96	Supply of Network Management System suitable for Webfil make PD MUX as per IRS-TC-68/12 with latest amendment. (Without any Hardware) Make Webfill
97	Supply of NMS with application software and hardware (Server, Monitor 19 inch, Key board, Mouse) as per given technical specification ( Item to be inspected by Consignee) Make Tejas
98	DWC Pipe
99	Electronic LC Gate Telephone System as per RDSO Specification No. RDSO/SPN/TC/51/2021 Revision - 1.0 Latest.Master Telephone
100	Electronic LC Gate Telephone System as per RDSO Specification No. RDSO/SPN/TC/51/2021 Revision - 1.0 Latest.Slave Telephone
101	24V DC Power Supply Unit with MF Battery
102	Electronic LC Gate Telephone System as per RDSO Specification No. RDSO/SPN/TC-51/2011 Revision - 3.0 with Amendment No.1. (WITH VOICE LOGGING FACILITY) Master Telephone
103	Slave telephone
104	24V DC Power Supply Unit with MF Battery
105	Supply of CLS signal post 4.6M and Ladder 4.5M with CI tubular bases and platform conforming to IRS:S-6-81 or latest and RDSO Drg. No. SA-23153 (Adv.) for ladder
106	Supply of colour light signal unit 2-Aspect complete without lamp holder, lamp, lense and signal transformer as per IRS-S-26/64 and RDSO Drg. No. SA 23003 A/M(Adv.) or latest with hand cuff lock 2 no
107	Supply of arm type junction route indicator complete without lense and light unit 2 way suitable for LED signal units as per RDSO specification No. IRS:S:66/84 amendment and RDSO Drg. No. 23402 (Adv.) 4 with latest amendment if any.
108	Supply of PVC Jacketed wire rope for Track Lead connection



109	Supply of NDT low voltage electric fuse non indicating type as per IRS:S:78/ 92 round edge 14mm dia. 51mm length - 2 Amp
110	Supply of PBT BASE Track Feed Adjustable Resistance DISC TYPE 15/ 30 ohms
111	Supply of Route LED signal lighting unit 110V - AC Retro fittble in existing CLS housing compatible with AC LED ECR as per RDSO specification no. RDSO/ SPN/ 153/ 2011 Rev. 4.1 or latest amendment
112	Supply of Shunt LED signal lighting unit 110V-AC retro fittable in existing CLS housing and compatible with AC LED ECR as per RDSO specification no. RDSO/ SPN/ 153/ 2011 (Rev 4.1) or latest amendment
113	Supply of Integrated LED Signal for Green aspect as per Specification No. RDSO/ SPN/ 199/ 2010 Rev. 1.0 or latest
114	Supply of Integrated LED Signal for Yellow aspect as per Specification No. RDSO/ SPN/ 199/ 2010 Rev.1.0 or latest.
115	Supply of Integrated LED Signal for Red aspect as per Specification No. RDSO/ SPN/ 199/ 2010 Rev. 1.0 or latest
116	Supply of insulating material for ground connection of EPM
117	Supply of track lead junction boxes made from fibre glass including ARA terminals, MS angle size 40 x 40 x 6 mm of 1 mtr. length and bent pipes as per RDSO spn. no. RDSO/ SPN/ 151/ 1997
118	Supply of cartridge fuse block made of PBT as per RDSO Drg. No. SA-23748 Alt.4 and Spec. No. IRS: S - 78/92 with latest amendments. Fuse Block shall be suitable for round head type low voltage fuses
119	Supply of ARA terminal Block PBT 6 Way 25 mm center as per RDSO Drg. No. SA - 23756 Alt. - 3 and spec. No. IRS : S : 75/ 2006 with latest amendment if any as per technical specification attached
120	Supply of Track Feed Battery Charger (Potential free).
121	Supply of low maintenance lead acid stationary Secondary Cell 2V, 80AH capacity of 10 hrs 27 Degree Centigrade end voltage of 1.85 V per cell. Each cell assembled with tubular positive and pasted negative plates in a hard rubber container plate nuts and bolts dry under charged conforming to IRS : S : 88/ 2004 or latest
122	Electric Point Machine 143 mm



123	Electric Point Machine 220 mm
124	Supply of 2 Mb programmable primary mux
125	STM-1
126	Supply of PUNCOM Make 2MB Programmable mux
127	NMS (customized software only)(if required)
128	Supply of 2W/4W E&M interface card (4 Circuits per card)
129	Supply of Subscriber Interface card (4 Circuits per card)
130	Supply of Subscriber Interface card (4 Circuits per card)
131	Supply of Subscriber Interface card (4 Circuits per card)
132	PVC Signalling Cable 12 C X 1.5 sqmm
133	PVC copper wire single C X 25 Sqmm
134	PVC copper wire single C X 16 Sqmm
135	MUX With all Accessories
136	Bakelite Sheet Brown SIZE: 4' x8' x 3MM To 25MM Thick
137	Bakelite Sheet Brown SIZE: 4' x 4' x 3MM To 25MM Thick
138	RTU with 32 Digital Inputs & 16 Analog Input(110V/28V DC 7 Amps)
139	Gate Telephone
140	Power Supply for Gate Telephone
141	Thermoshrink jointing kit
142	lead acid stationary battery of 48 volt-200AH
143	4 Conductor Modular Terminal 2.5 sq mm Knife Edge Disconnecting Type
144	End Plate for Above Terminal
145	End Clamp
146	Mounting Din-Rail
147	MARKING TAG (Printed) (1 Strip contain 1-10.... marking)
148	Heat Shrinkable Signaling Cable Jointing KIts suitable 12 Core Cable
149	Heat Shrinkable Signaling Cable Jointing KIts suitable 19 Core Cable
150	Heat Shrinkable Signaling Cable Jointing KIts suitable 24 core cable



151	Heat Shrinkable Signaling Cable Jointing Klts suitable 30 core cable
152	Fail Safe Electronic Time Delay Unit ( <b>Plug-In-Type</b> )
153	Colour Light Signal 2 Aspect FRP Unit
154	Colour Light Signal 3 Aspect FRP Unit
155	Supply of Colour Light Signal Post, Tubular Mild steel, 4.5 m length, 140 mm
156	Digital Multimeter model Fluke 289, Make: Fluke
157	Digital Multimeter Model Fluke 287, Make: Fluke
158	Electric Point Machine
159	Microtex LMLA cells of 2volts 300Ah
160	Multi Strand copper power wire 1 x 10 sqmm
161	HDMI SPLITER 1*8PORT 4 NUMBER
162	HDMI SPLITER 1*2 PORT 3 NUMBER
163	HDMI CABLE 20 MTR 2 NUMBER
164	HDMI CABLE 5MTR 4 NUMBER
165	MS Flat size 32mm x 5mm TRIP
166	Transmitter coil for CEL Make SSDAC
167	Receiver coil for CEL Make SSDAC
168	Relay Time Element Clock type / Fail safe Electronic Timer
169	NED make 110V 300Ah AGM VRLA Battery (consisting of 2V?200Ah? 55 Cells)
170	Supply of Electrical Key Transmitter for Crank Handle Interlocking



171	Supply of Magneto Telephone Handle
172	Magneto telephone as per RDSO spec.No. IRS:TC:36/97 with amdt-2
173	Colour Light Unit 2 Aspect as per SA 23003/A/M
174	Route Indicator 2 way as per SA 23402
175	Supply of Central link type ( Wago/ phoenix) terminal block , screw less solder less with knife disconnect clamp type for simultaneous test & measurement of four conductors with end stopper & suitable adequate DIN rail, Each terminal block equipped with two markers on top & bottom conforming to specification no.RDSO/SPN/189/2004  Revision 2.0 or latest Inspection by Consignee
176	Supply of Main Signal Post 140 mm outer dia 4.5 Mtr Length as per spec No IRS S 6/81 with latest amendments.(Inspection by Consignee)
177	Supply of Main Signal Post 140 mm outer dia 5.5 Mtr Length as per spec No IRS S 6/81 with latest amendments.(Inspection by Consignee)
178	Supply of Shunt Signal Post with Base (GI Pipe of 80 mm Dia of min. 1 meter length.) (Inspection by Consignee)
179	Supply of Cast Iron Main signal 140 mm surface base as per spec No IRS S-10/78 and Drg No 2011/M with latest amendments, with CLS ladder assembly complete for CLS signal 5.5/4.5 mtrs long as per RDSO drg.No SA23156/23153 as the case may be & signal front staging complete assembly for CLS unit as per Drg.No.RST/11413 & signal back staging as per extant C.Rly practice. (Inspection by Consignee)
180	Supply of Signal No.plates. as per Drg No RST-11393 (Inspection by Consignee)
181	Supply of OFF set bracket 5-1/2 " for Signals & Routes. (Inspection by Consignee)
182	Supply of A/AG/C/P/G Board as per RDSO Drg No SA 23455-56 RST-11445 & SA 23476-77 as applicable .(Inspection by Consignee)
183	Supply of Tongue attachment nylon insulation set consisting of one insulating plate as per Drg no: RST-106961 & 3 nos of Ferrules with collars to suit rodding supplied as per RDSO spec & Drg.no: RST-10692. (Inspection by Consignee)
184	QT2
185	QN1K



186	QN1 50V
187	QNN1 50 V
188	35 SQMM MULTI STAND WIRE
189	POWER WIRE 1 X 25 SQMM
190	1.0 SQMM TINNED FLEXIBLE SINGLE CORE
191	POWER WIRE 1 X 6 SQMM
192	POWER WIRE 1 X 10 SQMM
193	POWER WIRE 1 X 16 SQMM
194	Digital Clock with GPS Synchronization with RED LED (STAND ALONE MODE) (Size : 510 mm (H) x 1200 mm X 250 mm (D) as per RDSO Specification No. RDSO/SPN/TC/62/2008 (Rev.3.0) with Amendment No.2 Latest (Platform Clock Single Sided) with 180 minutes battery backup.
195	Supply of electrical key transmitter for crank handle interlocking
196	Rotary Electric Key Transmitter conforming to RDSO Specn. No.IRS S-21/01 and Drg.No.SA-22601 Alt.-4 or latest
197	Supply of steel carrier rail 35 x 7.5 mm, 1 mm/ 0.039 in thick unslotted, yellow with chrome wago or similar
198	Supply of Shunt LED signal lighting unit 110V-AC retro fittable in existing CLS housing and compatible with AC LED ECR as per RDSO specification no. RDSO/ SPN/ 153/ 2011 (Rev 4.1) or latest amendment
199	Supply of Route LED signal lighting unit 110V - AC Retro fittble in existing CLS housing compatible with AC LED ECR as per RDSO specification no. RDSO/ SPN/ 153/ 2011 Rev. 4.1 or latest amendment
200	Supply of Relay, Plug in Type, Style AC-LED all aspect, AC Lamp Proving Relay, Slow to release, neutral line relay 4F/ 4B Contacts, front and back contacts metal to carbon, shall be suitable for working in series with 110VAC LED signal lamp rated at 15W conforming to RDSO specification No. STS/ E/ Relays/ AC-Lit LED/ Signal/ 09-2002, BRS : 941A, IRS : S34 and IRS : S23 or latest. The interlocking code for this unit shall be ABDHK Type



201	Threaded type ground fittings for IRS type point machine as per E.Rly Drg No. /29/721,722,723, 724,725,726,726A,726B,726C and 727 or latest.
202	Tubular steel signal post for independent shunt signal as per IRS: S-6/81 or latest complete with bracket, foundation bolts, signal base, etc.
203	Track Feed battery Charger working on 110V AC, 50Hz , 10A for Charging 1 or 2 or 3 lead acid cells of 80AH capacity as per IRS: S-89/2013 (Ver.1.0) or with latest amendment / specification
204	Track lead junction Box & Angle for TLJB (mounting stump) complete with cover made of FRP materials as per RDSO specification No. RDSO/SPN/151/1997 or latest complete with two bakelite brass terminal blocks, HDPE pipe, M10 terminal links as per technical specifications
205	Track Feed Variable resistance(with Phenolic moulded base ) 0-30 ohm as per specification IRS: S-23 and Drg. No. SA-20166 with latest amendments /specification
206	Supply of Indicative type of fuse inserts with holder, 0.6 Amp, as per IRS S: 78/92 or latest, make Rapid, Malnad, L&T or similar of reputed make
207	Supply of Rx Coil with 5.5 as spare of Single section digital axle counter
208	Supply of Tx Coil with 5.5 as spare of Single section digital axle counter
209	Supply of Reset Box ( ERBS - 03) as spare of Single section digital axle counter
210	Supply of SGE Double Line Block Instrument: -  20. The contractor shall supply the SGE Double Line Block Instrument as per RDSO specification no IRS:S-22/91 which shall be procured from RDSO approved firms only followed by RDSO inspection.
211	GI Boom  1st section - 3,500 2nd section - 3,400 3rd section - 2,600
212	KRONE TOOL



213	CT BOX 10 PAIR
214	CT BOX 20 PAIR
215	KRONE BOX 50 PAIR
216	FIBER TERMINATION BOX 12 P
217	Supply of Reflex of Hom Ahuja make or similar UHC 30XT (UHC 30)
218	Supply of PA Column Speakers Ahuja Make or similar ASC 20T (SCM 15)
219	Supply of microphone Ahuja Make AGN- 500or similar (AGN 500)
220	Supply of microphone Stand Ahuja Make ATS 5 or similar (ATS 5)
221	Supply of speaker cable 2 core PVC sheathed (VG 2 Core)
222	Supply of CCD Day/Night camera in weather proof Enclosur for outdoor Make-Bosch (CP Plus IHPT)
223	Supply of Outdoor Mounting hardware for mounting each camera as per technical specification (Raise combo Mounting Braket)
224	Supply of Desktop PC with 32" LCD Monitor as per technical specification (PC with 32 LCD)
225	Supply of Hard disk 2 TB Make Samsung Segato Western as per technical specification(Segate 2 TB EHD)
226	Supply of Ethernet gigs Byte high speed switches 16 port as per technical specification (TL S1016D - 16 Port)
227	Supply of Video amplifier unit for each camera Make Bosch Samsung Technical as per technical specification.(NS CCTV VDA -1/8)
228	Supply of Hybnd digital video logger 16 CH1 with Ethernet facility along with all accessories Make- Bosch Samsung Techno as per technical specification(DS-7A16HGHI- 16 Channel Logger)
229	Supply of media converter EI to Ethernet as(TD-CNV-ETH-E1)
230	Supply of 24 Port cat 6 jack panel as per technical specification(MCAT 24)



231	Supply of 15 U Rack as per technical specification. Installation. Testing & Commissioning of complete unit CCTV camera with creation of user. (MR 15U)
232	Supply and installation of rack mounted 24 F FMS fibre part No FMS IU 24FS 24 FP Raychem make including 24 Nos. 0.2 db FC/PC adaptors and 24 Nos. 900 micron 1.2 meter FCPC pigtails RDSO Spec No. RDSO/SPN/TC-037 2000 (ver 3) or latest(FMS SC 24P Loaded 11650)
233	Pig Tail of Optical Fibre Cable for (Pigtail to OFC Termination cable)
234	Supply and transportation of Krone type city box (10 pair) as per DOT Nos. Tech Spec No O/CTN/11.01 Sept-92 (CT Box 10P)
235	Supply of 250 Watt Power amplifier Model:(SSA 250 Amp)
236	supply of Quartz Clock of standard make
237	Digital multimeter Rishab model 18-5 with accessories (Crosset DM)
238	Crimping Tool (RJ-11-RJ-45) Dlink or similar (D Link)
239	Krone Tool Dlink or similar (Krone)
240	Supply of HDSL Modem (2Mbps) V 35 & g 703 CYGNUS, RAD or similar (TL3002)
241	Supply of 48 Ports DSLAM unit of D link or Net-xcess or similar with power supply & cabinet(DSLAM 48 port)
242	Supply of managed Switch 24 ports (D-Link) or similar(DES 1024)
243	Supply of CAT 6 Cable Make AVAYA, D-Link(Dlink)
244	Supply of RJ-45 patch cord 10 mtr. Length D-Link or similar(Yaksha 10M)
245	Cat-6 Patch Cord (2 Mtr 1 D-Link or similar(GLC 2M/6FT)
246	Supply of U link panel 32 way as per sample(U Link Panel 32)
247	Supply of RJ-45 connector gold plated of D-Link or similar(D - link)



248	Supply of 2200 VA on line UPS with 30 mints. Back up. APC Smart UPS 2200 VA (SUA 2201)(BVX2200LI UPS)
249	Supply of KVA on line UPS WITH 30 mints.Back up APC make or similar(SRC 1KI UPS)
250	Supply of VAL. Rack 6 U (HCL) or similar(Croto 6U)
251	Supply and installation of optical fibre cable termination box alongwith accessories as per Specification No. IRS TC 81/2000 or latest(NES RS - 12)
252	Supply and Fixing of 20 pair CTB and termination of quad/ jelly filled Cable(CT Box 20P)
253	Supply of Telephone instrument (Beetel Make or similar TFC approved one member installation and testing of telephone at each premisies residence office or duty place this include supply and wiring of 10mtr switch board cable? pair of size 063mm dia for indoor wiring along with supply and fixing of PVC conduit pipe 25mm dia at its wiring. All others materials required such us RJ-11, wall mounted etc in any for Commmissioning of Telephone to be supplied by Tenderer also.(Beetel Phone)
254	42U server Rack Size WxDxH 600x1000x2068 Server Rack Size 19Inch 42U Depth-1000MM with accessories
255	12V-80AH AGM VRLA MAXLIFE
256	Supply of Krone 230mm x 80mm x 50 mm Indoor Krone Box ,14
257	Supply of Kron tool Make D-Link or similar as per technical specification. Inspection:
258	42U server Rack Size WxDxH 600x1000x2068 mm
259	DC Motor for Electric Point Machine (Rotary Type) 110 VDC,as per Specn. No. IRS-S-37/82 With Amendment-3
260	E Type Lock



261	Key For E Type Lock
262	Key Lock Relay (KLCR) working on 24 V DC NON ACI type TMA, INTEGRA Make with different ward combination and contact configuration 2F/2B (TMA 1122/116 – OLO)
263	DC DC Converter 8504 Nos 10 12035.00 120350.00 9 10831.50 9 10831.50 0 0.00 Suppl of DC-DC Converter (24-32V/10A). As per RDSO Spec No. RDSO/SPN/165/2012 or latest
264	Supply of Complete barrier pedestal without boom, complete with gear drive unit clutch motor timing belt terminal and wiring pedestal with limit switches frame housing and counter balance channels, operating voltage 24V, conforming to RDSO Specification No. RDSO/SPN/208/2012 with latest amendment without hand generator. Make: HEIDZ India
265	Supply of Motorized Lock Box assembly for ELB operating voltage 24V Capacity 40 Watt motor. Make: Heidz
266	Supply of GI Octagonal Boom 32 feet long as per RDSO Drawing No. RDSO/S-11600 in 4 section of 8 feet each. Make : HEIDZ
267	Supply of Aluminium boom section 8 feet 1 in 100 tapering First section made of 3mm sheet of size approx. 195mm at larger end tapers in 100 suitable for Heidz or Similar make lifting barrier
268	Supply of Aluminium Boom section 8 feet long Second section made of 2.5mm sheet of size approx 170mm large and tapers is 100 suitable for Heidz or Similar make lifting barrier gate
269	Supply of Aluminium Boom section 8 feet long 1 to 100 tapering Third section made of 1.6mm sheet of size approx 153mm at large and tapers is 100) is suitable for Heidz or Similar make lifting barrier
270	Supply of Aluminium boom section 8 feet long 1 to 100 tapering Fourth section made of 1.9mm sheet of size approx 130mm at larger and tapers is 100 suitable for Heidz or Similar make lifting barrier gate
271	Supply of timing belt type L300 width 18mm suitable for HEIDZ make electrically operated lifting barrier. Supply of timing belt type L300 width 18mm suitable for HEIDZ make electrically operated lifting barrier.
272	Supply of PMDC motor 24V motor 90W, 1500 rpm with base mounting (only for DC barriers & hand generator barriers HELB 601) Make: Heidz



273	Supply of 24V DC/110V DC/110V AC Hooter with 2 speakers, 15 watt amplifier and built in flasher unit. Make HEIDZ
274	Supply of Control Panel Make (ELB 24V DC) Control Panel <b>for Barriers without hand Generator</b> with Motor Contactors, relays, Buttons and indication lights etc. complete as per Spec RDSO/SPN/208/2012 or latest (Make: Heidz)
275	Supply of Limit Switch new top roller with 2 NO + 2 NC contacts for HEIDZ or similar Make Electrically operated lifting barrier as per IRS S-41/70 and As per RDSO specification no . RDSO/SPN/208/2012 ver 2.0 or lat
276	Supply of Push Button for operating Gate Heidz or Similar make Electrical lifting Barrier. Make Siemens, L&T, Schinder <u>or as approved by RDSO</u>
277	Time element Relay
278	Phenolic sheet 10 mm 1.22 mtr x 1.22 mtr
279	Nd Fuse
280	Tik Tak Piano type Switches
281	Apparatus Case Full
282	Apparatus Case Half
283	Lamp holder two Pin bakelite type
284	TLJB
285	Adjustable track feed resistant 30 ohm
286	8 SWG GI wire
287	Hydrometer
288	Nylon Insulation set for ground connection
289	Ground connection
290	Cable Route Marker
291	DLP Trunk 32x20 mm make regrand
292	DLP Trunk 32x20 mm make wonder
293	Conduit Pipe
294	SS 304 Full location box. Drawing no. 948 Body material 1.6 mm think. Door material 2 mm thick.
295	SS 304 Half location box. Drawing no. 945. Body material 1.6 mm think. Door material 2 mm thick.



296	MC4 CONNECTOR
297	Y CONNECTOR
298	Fuse Holder (1000V Mersen) with link (30 A)
299	6sqmm dc cable (2000m)
300	HDMI SPLITER 1*8PORT 4 NUMBER
301	HDMI SPLITER 1*2 PORT 3 NUMBER
302	HDMI CABLE 20 MTR 2 NUMBER
303	HDMI CABLE 5MTR 4 NUMBER
304	SINGLE MODE FIBER PATCH CORD
305	FMS FOR 12 FIBER 19" RACK MOUNTABLE
306	JOINT ENCLOSURE FOR 6 CORE
307	Supply of 12 Core metal strengthened outdoor unarmoured optic fibre cable (ITU-TG-652-D) and all the accessories required
308	fiber terminalbox 12 way., 10 numbers
309	Supply of Kron tool Make D-Link or similar as per technical specification. Inspection: Color White Material krone Compatible Devices Punch down tool Weight 200 g Packaging Type Box Dimensions 7.2 x 5.3 x 1 inch 02 numbers
310	SC-SC duplex patch cord 10 mtr D-link/priston
311	Imported motorised screen with remote Hd screen 3d 4k supported 4:3 ratio 150"(90x120) 8x10
312	Manual projection screen 4:3 ratio 150" (8'x10'
313	Fuse Alarm system as per Rdso specification 32 fuse module
314	Logitech Wireless Presenter R400
315	Krone tool
316	Supply of PVC Jacketed wire rope for Track Lead connection. (INSPECTION : Consignee)
317	Bolt for Tljb 25mm
318	40x40x6Angel for Tljb
319	Sunsignal Hud
320	Channel Bond Pin



321	Gi perforated pipe Dia 50mm, length 3mtr, jindal A class, thickness 2.9mm, with clamp
322	B class, thickness 3.6mm
323	C class, thickness 4.5mm
324	Maintainance free earthing Rod + 30kg + 150*25*6 exothermic rod + 1 separate 150*25*6 strip + 1 separate 300*25*6 strip
325	Hand Cuff
326	Supply of 24 fiber optical fiber cable straight joint enclosure (SJC) complete with all accessories along with enclosures with heat shrinkable splice protection sleeve as per RDSO spec. RDSO/SPN/TC68/2014 Revision 1.0, Amndt. 1.0 or latest. Splice losses in no case should be more than 0.1 dB.(Inspection by consignee)
327	2V-200AH AGM VRLA MAXLIFE
328	2V 300AH AGM VRLA MAXLIFE
329	Route tracer CAT4+, Genny, with clamp of RD
330	Supply of OFC patch cord/jumper cable, 10 m long, with (1) FC/PC connectors on both sides or (2) One end FC/PC connector and other end compatible to work with STM-1.(Inspection Agency:-RITES)
331	SUPPLY OF AUTOMATIC MEDIA
332	Shunt signal post 90mm dia 1m Long to IS-1239/90
333	Shunt signal surface base 90mm dia
334	Position light shunt signal unit without lenses, lamps & lamp holder unit as per RDSO Dwg. No. SA-23840.
335	Nos. Anchor bolt complete (305mmx50mmx20mm).
336	20 Pair dp box with krone module.
337	Punching tools.
338	Dynamic Breaking Resistor 25 Ohm & 1kw.



# PRODUCT LIST

1. **BPAC:**
  - (A) Axle Counter Based (Block Proving by MUX, UAC)
  - (B) *SSBPAC (DIGITAL) For Double Line and Single Line*
  - (C) Block Proving By Axle Counter (BPAC) using UFSBI (For double line and single Line)
2. Universal Fail safe Block Interface
3. Double Line Block Instrument
4. **Single line Block instrument (token less):**
  - (A) Push Button Type Single Line tokenless Block Instrument
  - (B) Single Line Tokenless Block Instrument Handle type
  - (C) *Push Button TLBI with UFSBI*
5. Single Line Neale's Ball Token, 'A'
6. **Block Bell Equipment :**
  - (A) Block Bell Equipment Used In 25KV AC Electrified Area
  - (B) *DTMF Based Block Bell And Telephone Equipment*
7. Filter Unit for Use in Conjunction With Block Instrument In 25kv, 50 Hz, Ac Traction Areas
- B. CABLE:**
8. PVC Insulated Armoured, Unscreened Underground Power Cable
9. **Signalling Indoor cable:**
  - (A) *PVC Insulated Railway Signalling Indoor Single Core Cable*



PVC Insulated Railway Signalling  
Indoor Multi Core Cable

- 10 PVC Insulated Armoured, Unscreened,  
Underground Railway Signalling Cable
- 

**C. COLOUR LIGHT SIGNALS:**

- 11 **COLOUR LIGHT SIGNAL UNIT/HOUSING:**

- (A) Multi Unit Type - Without Side Light
  - (B) Shunt Signal- Position Light Type
  - (C) Route Indicator Direction Type 5  
Lamps Unit Arms (1 To 6 Way)
  - (D) *Non-Metallic Colour Light Signal  
Housings of Various Types for  
Railway Signalling*
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- 12 **LED SIGNAL LAMPS:**

- (A) LED Signal- Lighting Units for  
Railway Signalling
  - (B) *LED Signal Lamps For Main Color  
Light Signal For Railway Signalling*
- 

- 13 Battery operated LED Based Flashing Tail Lamp  
for Railway Vehicles
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- 14 FOG PILOT ASSISTANCE SYSTEM for  
SAFETY (FOG PASS)  
Fuse Auto Change Over System for Railway  
Signalling
- 

**D. ELECTRO-MECHANICAL ITEMS:**

- 16 Circuit Controller (Modified Design) Lever an  
Arm, DW Lever Circuit Controller (Rotary  
Type)



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17 Electric Point & Lock Detector

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18 Electric Key Transmitter

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19 Electric Point Machine  
(Non-Trailable Type )

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20 Motors For Electric Point Machine

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**E. FUSES, FUSE BLOCK & TERMINALS BLOCK:**

21 Non Deteriorating Type of Low Voltage Electric  
Fuses For Railway Signalling

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22 120/160/200 Way TAG Blocks For Signalling  
Installations

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**23 TERMINAL/FUSE BLOCKS:**

(A) *ARA Terminal Blocks And Fuse  
Blocks- Made of PBT/Polycarbonate*

(B) Multiway Isolating Terminal Blocks  
(Barrier Type) For Signalling  
Installations

(C) Modular Terminal Blocks, Fuse  
Terminal Blocks & Miniature fuse  
link of international standard for  
Railway

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**24 BATTERY CHARGER FOR S&T:**

(A) Battery Charger For Railway S&T  
Installations

(B) Track Feed Battery Charger

(C) ~~DOXA~~ *Regulated (Sealed) Lead Acid  
Stationary Battery Charger for  
Railway S&T Installations*

(D) Transformer-Rectifier Set For  
Railway S&T Installations

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25 SITEL' Primary Cells (Dry, Lachlanche Type)  
For Railway S&T Installations

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**26 SECONDARY BATTERY /CELLS FOR  
S&T:**

(A) *Low Maintenance Lead Acid  
Stationary Secondry Cells For S&T*  
,QVWDOODWLRQ



(B) Regulated (Sealed) Lead Acid  
Stationary Battery For Railway S&T  
Installations

27 TRANSFORMER 230/110 V 1KVA to 5KVA

28 DC-DC Converter For Railway S&T

29 Inverter For Railway Signaling Installations For  
'On- Line' Applications

30 Ferro Resonant Type Automatic AC Voltage  
Regulator For Railway signalling Installations

31 SMPS Based Integrated Power Supply (IPS)

32 Earth Leakage Detector

33 Code of practice for earthing and bonding  
system for equipment

34 **RELAYS (METAL TO CARBON) :**

(A) RELAYS -- Universal Plug-in type  
AC Lamp Proving Relay (M-to-C  
Contact) for LED Signal Lamp

(B) Relays - 'Q' Series Neutral Line (ACI  
& NON-ACI)

(C) Relays – Plug in Type, Track Relay  
9 & 4 Ohm (ACI & Non-ACI)

(D) Relays – Special Type ( Metal-to-  
Carbon )

35 **RELAYS (METAL TO METAL) :**

(A) Relays - Neutral Line (Metal-to-  
Metal Contact) , (ACI & Non-ACI)

(B) Relays – Special Type (Metal to  
Metal)

(C) Relay – Metal to Metal 110V AC  
LED ECR for LED Signal Lamp

(D) Relays – Point Contactor Unit

36 Relays – 3-Position DC Polarized (Metal to  
Metal)

37 Relay Contacts – SIG– (For'Q' series plug-in  
type relays only)

38 Fail Safe Electronic Time Delay Device For  
Railway Signalling



39 Fail- safe electronic flasher device

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## **H. TRACK CIRCUIT EQUIPMENT:**

40 Audio Frequency Track Circuit

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## **41 DIGITAL AXLE COUNTER:**

(A) Single Section Digital Axle Counter

(B) *High Availability Single Section  
Digital Axle Counter*

(C) Multi Section Digital Axle Counter

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42 Choke Coil for single rail track circuits on 25 KV  
50 Hz AC electrified sections

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43 Track Feed Resistance (Porcelain Base, Phenolic  
Moulding Base) 7.5 Ohm, 15 Ohm, 30 Ohm

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## **44 INSULATION FOR TC:**

(A) *Nylon Insulated Joints*

(B) Thermoplastic Poly Urethane  
Insulators for railway Signalling

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## **I. ELECTRONIC SIGNALLING EQUIPMENT:**

45 Electronic Interlocking

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46 Data logger system for Railway S&T  
Installations

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47 Train Collision Avoidance System (TCAS)

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48 Advanced Auxiliary Warning System (AAWS)

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49 Electric Lifting Barrier

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50 Automatic Fire Detection & Alarm System  
Signalling installations (AFDAS)

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51 Power supply arrangements for level crossing  
gate/intermediate block working/intermediate  
relay hut



## **MACHANICAL ITEMS**

*52. Rodding Compensator*

*53. All Types Of cranks*

*54. Facing Point Lock*

*55. Lock Bar Clip ( 90r , 52 kg , 62 kg)*

*56. Lifting Barrier for Interlocking Gate*

*57. Rodding Joints*

*58. Color Light Signal Post , Base & Anchor Bolts*

*59. Apparatus Case*

*60. Key Lock ' E ' Type*

*61. Ground Connection For Point Machine*

*62. All Type Of Clamp Lock And Point Machine*



## **Procurement**

Shorter Lead times  
Best Prices  
Quality Suppliers  
Lower Overheads

## **Logistics**

Point-to- Point Delivery  
Shortest time  
Hassle Free  
No follow-ups requires

## **Inspection & Documentation**

Preferential Inspection  
Pre-delivery Checks  
Documentation Support  
Invoicing & Billing

## **Services**

Design Works  
Fabrication

### **Ordering Process**

1. Please email your requirement to [sg.foundation00001@gmail.com](mailto:sg.foundation00001@gmail.com) with the project details, (in Excel PDF) File.
2. Please provide complete signed details to ensure that we can finalize our offer to you at the earliest.
3. Depending upon the requirement, we will be submit our best rate for your Consideration for you

**We would be happy answer any queries. You can email us at [sg. foundation00001@gmail.com](mailto:sg.foundation00001@gmail.com)**