

**NORTHERN REGION-O AND M/RAILTEL NORTHERN REGION
TENDER DOCUMENT**

Tender No: RCIL-SIG-NR-21-22-OT-1

Closing Date/Time: 02/11/2021 11:30

GM/OP acting for and on behalf of The President of India invites E-Tenders against Tender No **RCIL-SIG-NR-21-22-OT-1** Closing Date/Time 02/11/2021 11:30 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.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	Provision of Up-gradation of Signal Interlocking to Standard II with Electronic Interlocking at five stations (i.e. Verka Jn. Kathunangal, Jaintipura, Batala and Chhina) in Amritsar - Pathankot section of Firozpur Division , Northern Railway		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	02/11/2021 11:30	Date Time Of Uploading Tender	01/10/2021 19:19
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	172853717.53	Tendering Section	O AND M
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money /Bid Security (Rs.)	0.00	Validity of Offer (Days)	60
Obtain Bid Security Declaration in lieu of Bid Security	Yes		
Tender Doc. Cost (Rs.)	0.00	Period of Completion	8 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	19/10/2021	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Revenue

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-Works schedule (Supply, inst., wiring, testing & commissioning of new EI Indoor)							85145151.45	
1	1	5.00	Lumpsum	12971699.66	64858498.30	AT Par	64858498.30	
	Description:- Design & Supply of EI system with hot standby architecture as per RDSO spec. No. RDSO/SPN/192/2019 Ver 1.0 or latest to cover the following:i) Centralized EI at (Verka Jn. , Kathunangal, Jaintipura, Batala, Chhina). Essential spares of cards and Relays @ 10% for all stations as per RDSO specification.It includes a) all required cards, DC-DC convertors for power supply, mother boards, housings, communication/networking eqpt to make the EI system functional as per the approved SIPs of stations attached. b)All interface Relays (for Indoor only) Like QN1, QNA1, QBCA1, QSPA1, ECR Relays etc. should be included along with this item. Railtel will supply only Outdoor Relays. c) It also includes power supply arrangements for all cabins & relay huts (railtel to provide 110VDC only), OFC connectivity/ patch cords as per requirement of system. d) Design & supply of Relay racks, wire coils and relay wiring accessories. This includes indoor wiring of vital I/Os from EI system upto CT rack alongwith design of circuits & preparation of wiring Diagrams. e) Lightening protection arrangement at all locations as prescribed by RDSO for EI installations. Any other item necessarily required for working of EI installation and to make system functional and not getting covered under the Schedule shall be incorporated under this item. Tenderer shall submit along with the financial bid the detailed list of break up of sub-items of EI system covering Station wise Qty. (working & spares separate), total qty, rate & total amount for each sub-item with grand total matching to the Tendered cost for this item. Spares @ 10% rounded off (min.1) of essential items as specified by OEM. (Inspection : Inspection of EI System/ Cards, data-logger, Relays, Power Supply equipments, wire coils for wiring by RDSO and rest of the material by Consignee)							
2	2	5.00	Numbers	746705.27	3733526.35	AT Par	3733526.35	
	Description:- Supply of Maintenance terminal for Event and fault logging with 42" commercial LED monitor as per Latest RDSO guidelines With A-4 size color laser Printer, UPS and with all necessary communication arrangement. This should also include furniture i.e. table and chair for keeping MT with all accessories. (Inspection - Engg. Representative)							
3	3	10.00	Numbers	821977.38	8219773.80	AT Par	8219773.80	
	Description:- Supply of VDU/operator console with 55" minimum size of display. Microprocessor based equipment as per latest RDSO Guidelines with Changeover facility between VDUs. . This also includes the necessary furniture for keeping the VDU & its accessories.(Inspection: Engg representative.)							
	4	5.00	Numbers	590732.71	2953663.55	AT Par	2953663.55	

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4	Description:- Supply of 512 port digital input and 32 port analog input datalogger with built in network internal modem and power supply as per RDSO Specification No. IRS : S-99/2006 (Amend-3) or latest amendments or as per latest specification. This includes supply of Failure analysis system alongwith 42" monitor, A- 4 size lazer printer and Protocol convertor for data logger. Inspection: RDSO)						
5	5	5.00	Numbers	88161.96	440809.80	AT Par	440809.80
5	Description:- Installation, Wiring, Testing,Validation and Commissioning of 512/1024 port digital input and 32 port analog input datalogger systems with networking. Datalogger system to be supplied by Railtel (included as separate item in this schedule).This includes wiring of all the functions terminated at terminal strip in RR/RH to data logger (All material necessary for this work like wire/ cable , wiring material and strip connectors to be supplied by the contractor). Provision of cable carrier is included as seprate item of this schedule. This includes complete supply and provision of indoor cables and wires of 1X1, 1X0.6, 3/0.29, 16/0.02 flexible, 40X0.6, 40X1, 60X0.6, 60X1mm dia copper conductor as per NR practice conforming to latest spec- 76/89. between relay room/equipment room/panel room and data logger. Provision of cable carrier has been covered as seprate item in this schedule. Note:- 1. All wires / Cables (except underground signalling cables/ telecom cables if required) required for the work will be supplied by the contractor, 2. Where ever outdoor signalling/ telecom cable is to be laid will be supplied by the Railtel and work of trenching and laying etc. shall be coverd seprately under the item of cable trenching and laying etc. , networking shall be commissioned on availabilty of communication media, to be provide by Railtel/Railways. (inspection : Engg representative.)						
6	6	5.00	Numbers	355865.95	1779329.75	AT Par	1779329.75
6	Description:- Installation, testing & commissioning of Electronic interlocking system as per latest RDSO specification (Inspection:Consignee)						
7	7	5.00	Numbers	421371.41	2106857.05	AT Par	2106857.05
7	Description:- Earthing of SSI/EI equipment, Relay Racks and Power equipment etc to be done along with supply of all requisite materials as per Signal Engineering practice. As per RDSO TAN No: STS/E/TAN/3012 dt: 10.8.2016 and STS/E/TAN/3007 dt: 2.11.2012 or other latest TAN.						
8	8	50.00	Man-Days	741.09	37054.50	AT Par	37054.50
8	Description:- Training of RCIL/ Railway personnel with supply of hard / soft copies of course materials. (Inspection: Railtel representative.)						
9	9	5.00	Numbers	75174.56	375872.80	AT Par	375872.80
9	Description:- Submission of As made Documents for EI. Six sets of complete documents as laid down in the pera 10.2 of RDSO spec. RDSO/SPN/192/2019, ver. 2 or latest alongwith completion documents. This also includes i. Wiring Diagrams ii. Selection Table iii. VDU layout iv. Application Program listing v. Relay/ Cable termination Particulars vi. Input output assingment details Vii.Layout and contact analysis chart viii. Equipment disposition layout ix. Any other drawing as required by RCIL/ Railways. (Inspection: Engg representative.)						
10	10	5.00	Set	127953.11	639765.55	AT Par	639765.55
10	Description:- Supply of tools & measuring instruments required for maintenance of EI system-Details of items as per details given in annexure of tender document. (Inspection: Consignee)						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-Works schedule (Supply of items other than new EIs indoor)							32274768.06	
1	1	1500.00	Numbers	207.94	311910.00	AT Par	311910.00	
1	Description:- Supply of electric fuse complete with fuse block made of PBT for Railway signaling as per IRS-S-75/2006 Rev 2 or latest, fuses non-deteriorating type low voltage, to suit Specn. No. IRS: S-78/92 or latest, 2 Amp/4 Amp/10 Amp/16 Amp fuses in ratio of 50:20:20:10. Fuse block shall be suitable for round head type fuses. (Inspection: RDSO)							
2	i	150.00	Numbers	4912.60	736890.00	AT Par	736890.00	
2	Description:- Supply of QTA2, AC immunised plug in type DC 9 Ohm neutral track relay miniature tractive armature with 2F/1B contacts as per BRS : 939A or latest amendments if any, BRS :966-F2, IRS-S-34 & IRS-S-23 (as applicable) (Inspection: RDSO)							
2	ii	482.00	Numbers	3039.56	1465067.92	AT Par	1465067.92	
2	Description:- Supply of AC immune ,plug in type,style QNA1,DC neutral line relay,24 V DC 8F/8B contacts, front & back contacts metal to carbon with plug board retaining clip & connectors confirming to BRS:931A,IRS:S@45<47N44@ IRS:S@45"47@68 & IRS:S-23/88 as applicable.The interlocking code for this unit shall be ABDGH or latest.(Inspection: RDSO)							
2	iii	60.00	Numbers	2884.85	173091.00	AT Par	173091.00	
2	Description:- Supply of Non AC immune ,plug in type,style QN1,DC neutral line relay,24 V DC 8F/8B contacts, front & back contacts metal to carbon with plug board retaining clip & connectors confirming to BRS:931A,IRS:S@45<47N44@ IRS:S@45"47@68 & IRS:S-23/88 as applicable.The interlocking code for this unit shall be ABCDF or latest.(Inspection: RDSO)							

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2	iv	294.00	Numbers	2885.85	848439.90	AT Par	848439.90	
	Description:- Supply of Non AC immune ,plug in type,style QN1,DC neutral line relay,24 V DC 12F/4B contacts, front & back contacts metal to carbon with plug board retaining clip & connectors confirming to BRS:931A,IRS:S@45<47N44@ IRS:S@45"47@68 & IRS:S-23/88 as applicable.The interlocking code for this unit shall be ABCDF or latest.(Inspection: RDSO)							
2	v	15.00	Numbers	3162.68	47440.20	AT Par	47440.20	
	Description:- Supply of Electronic Timer relay, 24 V DC (60 sec). (Inspection: RDSO)							
2	vi	263.00	Numbers	5795.33	1524171.79	AT Par	1524171.79	
	Description:- Supply of plug in type, style AC LED all aspect AC lamp proving relay.Unit with in built current transformer type slow to release neutral line relay 4F/4B contacts, front & back contacts metal to carbon, shall be suitable for working in series with the 100 V AC, LED signal lamp rated at 15 W confirming to RDSO spec STS/E/Relays/AC Lit LED signal/09-2002 Amdt 1 or latest, BRS:941A, IRS-S-34 & IRS-S-23/88, as applicable. The interlocking code for this unit shall be ABDHK type. (Inspection : RDSO)							
3	3	5.00	Set	41900.29	209501.45	AT Par	209501.45	
	Description:- Supply of SI/ESM furniture of Godrej or any reputed brand consisting of the following :- 1. Executive revolving bearing series low back floating chair with normal arms cushioned chair =1 No. 2. Executive Table size 72"x36"x30" with 3 drawers one side, lockers cabinet on other side = 1 No. 3. Visitors chair seat & back cushion with high density Foam with plastic PVC handle capsule type flat pipe duly painted black = 3 Nos. (Inspection: Consignee)							
4	4	25500.00	Numbers	69.80	1779900.00	AT Par	1779900.00	
	Description:- Supply of ARA terminal block 25mm centre small M-6 terminal made of PBT as per RDSO drg. no.SA-23741-A,(Alt.-4) spec.no.IRS-S-75/2006 amendment -2 or latest.(Inspection: RDSO)							
5	a	6000.00	Numbers	65.83	394980.00	AT Par	394980.00	
	Description:- Disconnect type terminal as per spec. no. RDSO/189/2004 or latest as below : (i) Supply of Screw less mounted 2.5 Sq.mm - 4 wire front entry two input , two output disconnect cage clamp terminals block for test and measurement (wago or Phonix or Elmex) as per site requirement. As per RDSO/SPN/189/2004. The procurement should be done from RDSO recommended sources. The color will be decided by Engineer in charge (Preferably in Blue, Red and Grey color in the ratio of 1:2:3) (Inspection by Consignee)							
5	b	250.00	Numbers	14.13	3532.50	AT Par	3532.50	
	Description:- Disconnect type terminal as per spec. no. RDSO/189/2004 or latest as below : (ii) Supply of End and intermediate plate, 2mm/0.091 in thick as per site requirement. (Inspection by Consignee)							
5	c	100.00	Numbers	12.07	1207.00	AT Par	1207.00	
	Description:- Disconnect type terminal as per spec. no. RDSO/189/2004 or latest as below : (iii) Supply of End stopper for above item 10mm/0.0394 in wide as per site requirement. (Inspection by Consignee)							
5	d	125.00	Numbers	113.74	14217.50	AT Par	14217.50	
	Description:- Disconnect type terminal as per spec. no. RDSO/189/2004 or latest as below : (iv) Supply of carrier Rails for above 35mm*7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.(Inspection by Consignee)							
6	6	253.00	Numbers	20987.49	5309834.97	AT Par	5309834.97	
	Description:- Supply of apparatus case Single with 'E' type lock and key ward no.42 and handle as per RDSO drg. No. RDSO/S-11500. (Inspection: RITES)							
7	7	112.00	Numbers	16241.74	1819074.88	AT Par	1819074.88	
	Description:- Supply of apparatus case steel half with E type lock and key ward no. 42 and handle as per RDSO Drg.no. RDSO/S-11507. (Inspection: RITES)							
8	8	51.00	Numbers	18365.71	936651.21	AT Par	936651.21	
	Description:- Supply of CLS Signal post 4.6 M and ladder 4.5 M long with base (S-2011/M), and platform as per RDSO spec.No.IRS-S-6/81 or latest. (Inspection: Consignee)							
9	9	15.00	Numbers	16709.01	250635.15	AT Par	250635.15	
	Description:- Supply of CLS Signal post 3.6 M and ladder 3.5 M with base (S-2011/M) and platform as per RDSO spec.No.IRS-S-6/81 or latest. (Inspection: RITES)							
10	10	33.00	Numbers	15568.69	513766.77	AT Par	513766.77	
	Description:- Supply of colour light signal unit 2 Aspect complete without lamp holder, lamp, lenses and signal transformer as per IRS -S- 26/64 Ver. 1 and RDSO Drg no.SA-23003 A/ M(Adv.) or latest. (Inspection: RITES)							
11	11	27.00	Numbers	19749.72	533242.44	AT Par	533242.44	
	Description:- Supply of colour light signal unit 3 Aspect complete without lamp holder, lamp, lenses and signal transformer as per IRS -S- 26/64 Ver. 1 and RDSO Drg no.SA-23002 A/ M(Adv.) or latest. (Inspection:RITES)							
12	12	4.00	Numbers	20127.28	80509.12	AT Par	80509.12	

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			Description:- Supply of colour light signal unit 4 Aspect complete without lamp holder, lamp, lenses and signal transformer as per IRS -S- 26/64 Ver. 1 and RDSO Drg no.SA-23001 A/ M(Adv.) or latest. (Inspection: RITES)				
13	13	30.00	Numbers	8453.35	253600.50	AT Par	253600.50
			Description:- Supply of shunt signal position light complete with unit post and surface base mounting socket 90mm dia, without holders & bulbs as per drg. No. SA 23840, adv.specs.no.IRS-S-23/88 or latest Independent post type.(Inspection: RITES)				
14	14	25.00	Numbers	8311.36	207784.00	AT Par	207784.00
			Description:- Supply of shunt signal position light with unit offset bracket 3.5" dia. without holders & bulbs as per drg.no. SA -23840 adv.specs.no.IRS-S-23/88 or latest Dependent post type.(Inspection: RITES)				
15	15	12.00	Numbers	4353.08	52236.96	AT Par	52236.96
			Description:- Supply of Calling ON signal unit position light type complete with mounting socket 90 mm dia. & lock. All items shall be as per latest RDSO drawing and specifications.(Inspection: RITES)				
16	i	15.00	Numbers	22522.67	337840.05	AT Par	337840.05
			Description:- Supply of 1-way route indicator junction type Drg. No. SA-23401 (Adv.) or latest with hoods & offset bracket 5½ " without signal transformer as per RDSO Specn.No.IRS-S-66/84 Amd. 1.(Inspection: RITES)				
16	ii	5.00	Numbers	29315.16	146575.80	AT Par	146575.80
			Description:- Supply of 2/3/4/5-way route indicator junction type Drg. No. SA-23402-6 (Adv.) or latest with hoods & offset bracket 5½ " without signal transformer as per RDSO Specn.No.IRS-S-66/84 Amd. 1 (Inspection: RITES)				
17	17	50.00	Numbers	63578.97	3178948.50	AT Par	3178948.50
			Description:- Supply of Electric Point Machine (IRS type) AC immunity 160 V AC, Non trailable to operte on 110 V DC, 143 mm throw with interlocking complete with lock, detector, cable terminal box and slides for lock & detector, rotary locking as per specification No. IRS-S-24/2002 with amendment-1 or latest. (Inspection : RDSO)				
18	18	50.00	Set	9150.00	457500.00	AT Par	457500.00
			Description:- Supply of complete set of point rodding for point machines of IRS type as per latest drg. & specifications along with 'P' brackets, all type of nuts & bolts and Lugs as reqd also to be supplied with each set. (Inspection:RITES)				
19	19	50.00	Set	372.68	18634.00	AT Par	18634.00
			Description:- Supply of Insulation for 'L' type bracket for point fitting IRS type complete consisting of Insulation plate - 01 No. Ferrule - 02 Nos. Washers - 04Nos. (Material Nylon 66). (Inspection: Consignee)				
20	20	100.00	Set	963.41	96341.00	AT Par	96341.00
			Description:- Supply of Insulation for P bracket for point fitting IRS type complete.(Inspection: Consignee)				
21	21	39.00	Numbers	7436.10	290007.90	AT Par	290007.90
			Description:- Supply of Key lock relay, type TMA 24V DC with 2F/2B contacts configuration with different wards combination. Details of ward combination will be provided during execution of work.(Inspection: RDSO)				
22	22	450.00	Numbers	2692.90	1211805.00	AT Par	1211805.00
			Description:- Supply of Lead acid secondary cell 2V/80 AH with tubular positive & pasted negative plates assembled in hard rubber case container as per spec no IRS-S-88/2004 Ver. 1 or latest. (Inspection: RDSO)				
23	23	300.00	Numbers	3568.33	1070499.00	AT Par	1070499.00
			Description:- Supply of choke type 'B' to suit RDSO spec no IRS-S-65/83(Amndt.3) or latest.(Inspection: RDSO)				
24	24	300.00	Numbers	1201.97	360591.00	AT Par	360591.00
			Description:- Supply of Fiber type Track lead Jn. Box as per IRS(s) Drg. No.SA-20101/M made of FRP material (FRP material conforming to RDSO SPN 151/97 or latest) complete with 450 mm long 25 mm dia. pipe. (Inspection: Consignee)				
25	25	150.00	Numbers	3872.33	580849.50	AT Par	580849.50
			Description:- Supply of track feed batt. charger 110VAC/2-4-6 VDC / 10 Amps as per RDSO spec. no.IRS S-89/2013 Ver. 1 with Amdt. 1. (Inspection: RDSO)				
26	26	55.00	Numbers	4659.24	256258.20	AT Par	256258.20
			Description:- Supply of desk type magneto telephone to suit IRS TC:36-97(Amndt.1) (Inspection:Consignee)				
27	27	2.00	Numbers	3332.99	6665.98	AT Par	6665.98
			Description:- Supply of Megger 500VAC philips or similar make.(Inspection: Consignee)				
28	28	2.00	Numbers	5938.85	11877.70	AT Par	11877.70
			Description:- Supply of Electric drill machine of size 6mm of model no.EG2C of Ralliwolf make or equivalent (Inspection: Consignee)				
29	29	2.00	Numbers	7414.68	14829.36	AT Par	14829.36
			Description:- Supply of Portable digital auto range multi-meter Philips, Motwani, Fluke or Rishabh make or similar capable to measure from (0.1mv/0.01ma) AC/DC upto 10Amp(AC/DC), 600V(AC/DC) and 0.1 ohms-40 M ohms suitable for measurement of Frequency & capacitance.(Inspection: Consignee)				

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30	30	5.00	Per Unit	11533.73	57668.65	AT Par	57668.65	
	Description:- Supply of Maintenance Tool kit : Each kit consists of item No. 1 to 13 as per list below: - i) Spanner D/E 30x32 mm =1 No. ii) Spanner D/E 18x19 mm =1 No. iii) Spanner combination Ring and open end 19 mm = 1 No. iv) Spanner open end 50 mm = 2 Nos. v) Spanner combination ring & open end 30 mm = 01 No. vi) Spanner combination ring & open end 40 mm = 02 No. vii) handle extension = 01 No. viii) L- handle = 01 No. ix) Box Spanner 30 & 19 mm = 01 Nos. x) Cutter cum stripper 4" = 01 No. xi) Screw driver 6" = 02 Nos. xii) Adjustable wrench 375 mm = 01 No. xiii) Hammer ball 1.5 lb = 01 Nos. (Inspection: Consignee)							
31	31	5.00	Kilometre	51259.91	256299.55	AT Par	256299.55	
	Description:- Supply of Power wire as per IRS specification No.S-76/89 (Amndt.2) or latest with latest amendments (1 x 6 sq.mm, Red & Black colour). (Inspection: RDSO)							
32	32	5.00	Kilometre	143498.19	717490.95	AT Par	717490.95	
	Description:- Supply of Power wire as per IRS specification No.S-76/89 (Amndt. 2) or latest with latest amendments (1x 16 sq.mm, Red & Black colour). (Inspection: RDSO)							
33	33	1.00	Kilometre	224363.84	224363.84	AT Par	224363.84	
	Description:- Supply of Power wires as per IRS specifications No.S-76/89 (Amd. 2) or latest with latest amendments (1 x 25 sq. mm, Red & Black colour). (Inspection: RDSO)							
34	34	1.00	Kilometre	432010.56	432010.56	AT Par	432010.56	
	Description:- Supply of Wiring materials as per IRS Spec no IRS-76/89 with amendment no 2 or latest duly inspected by RDSO, Copper Wire, PVC sheathed and PVC insulation of size 60 x 1 Sq mm (Inspection: RDSO)							
35	35	6.00	Numbers	8356.41	50138.46	AT Par	50138.46	
	Description:- Supply of Annunciator Multiway telephone exchange 10 lines RDSO Drg. No.TCA-3352 (Adv.) or latest.(Inspection: Consignee)							
36	36	15.00	Numbers	8510.29	127654.35	AT Par	127654.35	
	Description:- Supply of 4 wire way station equipment consisting of 4 wire control telephone, battery charger/Power supply with battery back up (Inspection : Consignee)							
37	37	10.00	Numbers	1383.54	13835.40	AT Par	13835.40	
	Description:- Supply of 200 way tag block complete with cover conforming to Drg No. SA-24753 or latest as per IRS S-77/2006 rev 1 or latest (Inspection : Consignee)							
38	38	5.00	Numbers	70898.37	354491.85	AT Par	354491.85	
	Description:- Design, manufacture & Supply of AMF panel for 3 phase SEB and 2 nos. single/three phase DG sets suitable for steady load of 63 amp on each phase (Inspection: Consignee/Site Engg)							
39	a	3.00	Kilometre	55400.00	166200.00	AT Par	166200.00	
	Description:- Supply of Permanently Lubricated High Density Polyethylene (PLB-HDPE duct) duct of outer dia 40 mm & inner dia 33mm, for use as underground cable conduits for armoured optical fibre cable.as per RDSO specn No. RDSO/SPN/TC/45/2013 Revision 2.0. (Inspection : RITES)							
39	b	20.00	Numbers	28.06	561.20	AT Par	561.20	
	Description:- Supply of End plug 40 mm for Permanent Lubricated High Density Polyethylene Duct. (Inspection : RITES).							
39	c	20.00	Numbers	35.44	708.80	AT Par	708.80	
	Description:- Supply of Cable sealing plug for Permanent Lubricated High Density Polyethylene Duct. (Inspection : RITES).							
39	d	40.00	Numbers	72.22	2888.80	AT Par	2888.80	
	Description:- Supply of Plastic coupler -split fit/push fit type for Permanent Lubricated High Density Polyethylene duct. (Inspection : RITES).							
40	40	2.00	Numbers	14750.82	29501.64	AT Par	29501.64	
	Description:- Supply and installation of optical fibre cable joint enclosure as per TEC spec no. GR/OJC-02/01/March 99 (Inspection : Engg. Rep.)							
41	41	8.00	Numbers	473395.16	3787161.28	AT Par	3787161.28	
	Description:- Design, Manufacturing & supply of electrically operated lifting barrier 110V AC/DC as per requirement (as per RDSO spec RDSO/SPN/208/2012 ver.2.0 or latest) complete set along with pedestal driving and driven mechanism, booms length as per site requirement up to 9.76 mtr (approx.10Mtr), balancing weight, boom support and motorised boom locking arrangement, circuit controllers, operating panel for gate and gate signals operation in case of independent interlocked gates , road warning bell, hand generator (applicable only for DC operated Gate) & crank handle for emergency operation with all accessories complete in all respect (A set consists of two boom and other accessories as per RDSO's latest Specifications).							

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42	42	16.00	Set	34180.28	546884.48	AT Par	546884.48	
	Description:- Spare Booms for Electric Lifting Barrier as per RDSO Drg No RDSO/S-11600 or latest & RDSO specification no RDSO/SPN/208/2012 ver. 2.0 or latest. (Inspection: RDSO)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-works schedule for Supply & installation of items other than new Els indoor:							14417779.23	
1	i	30.00	Set	29878.15	896344.50	AT Par	896344.50	
	Description:- Fuse failure monitoring system with automatic changeover - Design, Fabrication, Supply, Installation, wiring, testing & commissioning of fuse alarm system of various type of fuses with automatic change over system along with audio visual indication. Per Module configuration to be decided by Engineer Incharge as per site requirement. To be supplied & installed as per RDSO spec. no. RDSO/SPN/209/2012 Rev.1 or latest (Inspection: RDSO)							
1	ii	5.00	Kilometre	172440.25	862201.25	AT Par	862201.25	
	Description:- Fuse failure monitoring system with automatic changeover- Supply of cable indoor Cu conductor multi core plain annealed, high conductivity 660V PVC insulated unarmored but PVC sheathed to specification No: IRS/S/76/89 amendment 2 or latest size 1*60C*0.60sq mm dia.(Inspection: RDSO)							
1	iii	5.00	Kilometre	7921.41	39607.05	AT Par	39607.05	
	Description:- Fuse failure monitoring system with automatic changeover - Supply of 1C*.79 Sq.mm.(1/1 mm) PVC insulated unsheathed single core cable as per IRS/S:76/89 with latest amendment (Inspection: RDSO)							
2	2	7.00	Numbers	17454.38	122180.66	AT Par	122180.66	
	Description:- Fabrication, supply and fixing of relay racks along with scaffolding as per Drg. No. NR/S&T/Project/14/2015 fitted with M.S. squares bars duly ionized along with description strips to accommodate Plug-in-type relay groups/Point contractor units/ Route checking relays etc. Scaffolding/ cable carrier to be fabricated of angle iron of size 35 mm X 35mm X 6mm and flat of size 25mm X 5mm as per instructions of site Engineer. The Separation between two flats shall be 250 mm or less as per site requirements. All fixing material like anti-tilting device if required, bolts, nuts, washers, insulators, shoe, angle irons, flats, L - bolts, sand, cement & concrete etc. will be supplied by the contractor. This also includes cleaning, priming by Red oxide, painting of racks and writing of description of relays by Indian Standard mark paints.(Inspection: Engg representative.)							
3	3	17.00	Numbers	18793.50	319489.50	AT Par	319489.50	
	Description:- Fabrication, supply and fixing of cable termination board of size as per Drg. No.NR/S&T/Project/13/2015 duly fitted with Bakelite sheet of size 6mm thick. This also includes fixing of ARA terminals & fuse bases. Supply and fixing of hard wood of size 100 cmx 100 cm x 5 cm in the back for jamming of cables. All the fixing materials like bolts, nuts, washers, Insulators, shoe, angle irons, flats, L- bolts, cement, sand and concretes etc. will be supplied by the contractor. This includes cleaning, priming by red oxide, painting & writing of description etc. with Indian standard mark paints. (Inspection:Engg representative)							
4	4	1000.00	Metre	356.23	356230.00	AT Par	356230.00	
	Description:- Supply & installation of Double walled corrugated HDPE Pipe of outer dia 120 mm (other than black in colour) (in 6m straight length with one coupler for every 6m length) conforming to BSEN-50086-2-4 for latest IS specification 14930 Pt II wherever required as per approved cable route plan. This includes brick work and other arrangements required to secure the pipe as per specifications, drawings and stipulations of tender documents & as per approved cable route plan including road crossing/platform/track crossing & for bridges and culverts etc. (Inspection:Engg representative)							
5	5	1500.00	Metre	852.76	1279140.00	AT Par	1279140.00	
	Description:- Supply and fixing of G.I. pipe 80 mm dia, 3mm thick, as per specn No. IS-1239, Medium grade, perforated at a distance of 20 CM or less of required length at culverts/ bridges/along the cuttings, suitably concreted at both ends as per drg. No. (NR/S&T/CON/1. 4/97). G.I. clamps of M.S. flats bolts & nuts to be supplied by the contractor. (Inspection: Engg representative)							
6	6	10.00	Numbers	6549.72	65497.20	AT Par	65497.20	
	Description:- Supply of thermo shrink jointing kit as per IRS : TC 77-2006 (Rev-1)with Amndt-1 or latest & provision of straight joints with the help of thermo shrink jointing kit as per specifications, drawings and stipulations of tender documents and as per approved cable route plan at various locations for 06/04 Quad cable. (Inspection: Consignee)							
7	7	25.00	Numbers	734.54	18363.50	AT Par	18363.50	
	Description:- Supply and fixing of P/G/C markers with complete fittings as per drg. No. NR/S&T/Project/15/2015. All material required for the job such as MS sheet, MS angle. Nut and bolts, paint and painting materials will be supplied by the Contractor. (Inspection: Engg representative)							
8	8	25.00	Numbers	9133.96	228349.00	AT Par	228349.00	

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9	Description:- Casting, concreting, curing of foundations and erection of WARNING BOARDS (SLB/BSLB/SB/ GWB/ Calling on Boards) as per drg. No. NR/S&T/Proj/17/2017 Supply of Warning boards as per SEM has to be done by the contractor. Board should be provided on I -Shaped channel having minimum weight of 8.9 kg/meter and length 5000mm.Channel to be supplied by the contractor. (Inspection: Engg representative)						
9	9	41.00	Numbers	6883.23	282212.43	AT Par	282212.43
	Description:- Supply & installation of 30 lines JB with prov. of terminals & board 6mm thick hylum sheet to be supplied by contractor including terminals.(Inspection: Consinee)						
10	10	10.00	Set	137615.54	1376155.40	AT Par	1376155.40
	Description:- Supply & installation of Earth leakage detector for monitoring different AC and DC, supplies including all accessories as per RDSO specifications no RDSO/SPN/256/2002 or latest. (Eight channels). (Inspection: RDSO)						
11	11	2.00	Numbers	34756.11	69512.22	AT Par	69512.22
	Description:- Supply and Installation of Demineralizer plant of aquaguard make or similar capacity 65 Litres per hour approx. This includes all the pipe connections from water source to unit and also to collection unit. (Inspection:Engg representative)						
12	12	40.00	Numbers	10877.86	435114.40	AT Par	435114.40
	Description:- Supply & installation of Carbon dioxide type fire extinguishers confirming to IS-2878 or latest, having 9 kg capacity complete with hose, horn, bed pipe, bracket and trolley mounted with ISI mark. (Inspection: Consinee)						
13	13	20.00	Set	22816.48	456329.60	AT Par	456329.60
	Description:- Supply, installation & commissioning of maintenance free earth suitable kit as per RDSO specification RDSO/SPN/197/2008 and Drg No. SDO/RDSO/E&B/002 dated 19.9.2008 or latest with latest amendments. Earthing kit consist of earthing electrode of 17mm dia and 3 meter long-01 no. 2 MEEB (300mmX25mmX6MM) -01 no 3. SEEB (150mmX25mmX6mm) -01 no. 4 Earth enhancing compound -30 Kg (minimum). This include provision of earth connection from MEEB to S&T equipment i.e. cable sheath, apparatus case, IPS, data logger, MSDAC, SSDAC etc. with PVC earth wire of size 16/25 Sq.mm through copper lugs of suitable size. PVC wire shall be supplied by RCIL. Note: At certain locations it may not be possible to achieve earth resistance of less than 1.0 ohm with one earth electrode/pit due to soil resistivity. In such case provision of loop earth consisting of more than one earth pit shall be done. For interconnection of two earth pits copper tape of size 25X2 sq. mm shall be provided by contractor. The number of pits required shall be decided based upon the resistance achieved for the earth pit already installed. The procedure mentioned above for one earth pit shall be repeated for other earth pits. The other earth so installed for the purpose of loop earthing arrangement shall be counted as separate earth. (Inspection by RITES)						
14	14	6.00	Set	117888.04	707328.24	AT Par	707328.24
	Description:- Installation & commissioning of UFSBI for Single/Double line complete with all accessories as per RDSO spec No RDSO/SPN/188/ 2004 ver 1.0 or latest amendment. (1Set). Each set consisting of following: i) UFSBI (RDSO SPN No SPN/147/2005 or latest amendment = 2 no. ii) Relay rack with due locking & sealing arrangement including relays = 2 Nos. iii) Block Panel complete with accessories as per latest amedment= 2 nos. iv) Block telephone with accessories as per RDSO spec no RDSO/SPN/191/2006= 2 Nos. (Inspection : Engr rep)						
15	15	10.00	Numbers	1408.75	14087.50	AT Par	14087.50
	Description:- Supply and installation of 20 Pair DP boxes and termination of cables as per specification & instruction ofEngg representative This includes all material required for fixing including hylum board and the hardware required for fixing. (Inspection: Consinee)						
16	16	750.00	Numbers	33.85	25387.50	AT Par	25387.50
	Description:- Supply & installation of PPTC fuse (Consinee)						
17	17	25.00	Sqm	1214.60	30365.00	AT Par	30365.00
	Description:- Supply & laying of antistatic PVC flooring with adhesive (2 mm thickness) in relay room/eqpt room/data logger room/axle counter room or as required and instructed byEngg representative (Inspection :Engg representative)						
18	18	5.00	Numbers	6506.50	32532.50	AT Par	32532.50
	Description:- Installation of master VHF set 25 W on ASM's table & wiring of the same with power supply wiring with 120 AH VRLA Battery. 230V AC from IPS is to be extended to the power supply unit of the VHF and provision of power socket. This includes foundation (500 mm x 500 mm x 1000 mm) and erection of the 50 mm GI pipe on rooftop and fixing of antenna with GI pipe and wiring from antenna to VHF set with provision of GUY wires for support of the GI pipe. All the material cement, sand, GI pipe, GUY wires, power wires with socket etc except the VHF set, antenna and 120 AH VRLA battery is to be supplied by contractor. (Inspection :Engg representative)						
19	19	50.00	Numbers	1567.25	78362.50	AT Par	78362.50
	Description:- Supply and Installation of VF tapping & termination transformers 2T/1120:470 Ohm as per IRS-TC-22/76 with amendment 1 or with latest amendment. (Inspection : Consinee)						
20	20	10.00	Pair	60526.39	605263.90	AT Par	605263.90

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20	Description:- Supply & installation of Modem compatible with existing UFSBI system work on back up media. (Inspection : Consignee).						
21	21	12.00	Numbers	91369.66	1096435.92	AT Par	1096435.92
	Description:- Supply ,installation of MROtech -TEC make mapple or equivalent 4c 1U 19 rack mountable device consisting of 4 EI pounts and slots and 1 slot populated with 2W/4W E&M supporting upto 8 interface balance 2 slots empty connect with 50 pin cable 1 No. for supporting 2W/4W E&M AC adaptor 1 No. for BPAC connectivity. (Inspection : Consignee)						
22	i	10.00	Numbers	4995.42	49954.20	AT Par	49954.20
	Description:- Fire Alarm System (Inspection: RDSO)(i) Supply, installation, commissioing of fault locator for short circuit detection in the fire alarm loop required as per UL listed solution and RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	ii	55.00	Numbers	5159.48	283771.40	AT Par	283771.40
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioning Heat and smoke Multi sensor detector with automatically adjusts sensitivity levels without the need for operator intervention or programming sensivity increase with heat varying and floating sensitivity from 0.5 to 4% /feet and shall be plug in type facility and address through switch. The base should also be supplied as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	iii	5.00	Numbers	489811.03	2449055.15	AT Par	2449055.15
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioning of analogue addressable UL listed Fire alarm Control Panel with 80 character display with battery charger and battery, backup for 24 Hr normal operation and 15 Min alarm operation addressable power supply and aplhanumaric keypad for installation for the FAS panel and 1000 event recording facility without GSM interface module as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	iv	400.00	Metre	1524.29	609716.00	AT Par	609716.00
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioning of analogue type Linear Heat sensing (LHS) cable which is self restorable after the fire event as long as its temperature does not exceed specified resettable temperature limit of 120 degree celsius as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	v	5.00	Numbers	152428.26	762141.30	AT Par	762141.30
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioning of GUI software to monitor health of detector and other devices along with control panel. The software shall be accessible over TCP/IP. It shall be able to indicate in the device whenever the detector or the device would require to be serviced as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	vi	5.00	Numbers	22464.15	112320.75	AT Par	112320.75
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioning of GSM interface module suitable to interface with the control panel as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	vii	5.00	Numbers	4950.67	24753.35	AT Par	24753.35
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation , commissioning of UL listed glass break manual call point RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	viii	5.00	Numbers	9790.73	48953.65	AT Par	48953.65
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioning of audio visual alarm unit as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	ix	5.00	Numbers	126898.97	634494.85	AT Par	634494.85
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioing of Linear heat sensing interface module as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	x	5.00	Numbers	4486.65	22433.25	AT Par	22433.25
	Description:- Fire Alarm System (Inspection: RDSO)- Supply, installation, commissioning of end of line box for liner heat sensing cable as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
22	xi	10.00	Numbers	247.93	2479.30	AT Par	2479.30
	Description:- Fire Alarm System (Inspection: RDSO) - Supply, installation, commissioning of circuit integrity cable 2 core 1.5 sq.mm as per RDSO/SPN/217/2016 Ver 2.0 or latest.						
23	23	10.00	Numbers	963.69	9636.90	AT Par	9636.90
	Description:- Supply and installation of 10 Pair DP boxes and termination of cables as per specification & instruction ofEngg representative This includes all material required for fixing including hylum board and the hardware required for fixing. (Inspection: Consignee)						
24	24	52.00	Numbers	222.68	11579.36	AT Par	11579.36
	Description:- Supply & fixing of Spigot for point machine						

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Schedule D-Works schedule for misc. Execution items other than new Els indoor							41016018.79	
1	i	5.00	Station	41184.75	205923.75	AT Par	205923.75	
	Description:- Prep. of cable route plan, Track crossing plan, Cable core chart, Power supply arrangement, Cable termination chart in relay room, relay huts and location boxes, Location Description plan, Cable insulation chart and register, Track circuit history card, Track circuit plan, Outdoor circuits and other outdoor diagram for way side stations. Three sets of above diagrams will be submitted for approval & for execution of work. The supply of completion document after commissioning of the work shall be as per following details:- (Inspection Engg representative)(i) Supply of 6 copies of completion set of A-3 size drawings of superior quality paper, laminated, properly bound in steel clip jaw file with cushioned cover. Cable route plan, cable core plan & other bigger size prints to be of ferro prints but without lamination.(ii) Software back up of complete set in the form of CDs(3 sets). (iii) One complete set of tracings.(iv) Design through CAD(v) Drawings in A3 & plans in bigger size. (six sets)Small Station							
2	2	150.00	Metre	463.15	69472.50	AT Par	69472.50	
	Description:- Fabrication, supply and fixing of scaffolding / cable carriers made of angle iron size 35mmx35mmx6mm and flat of size 25mmx5mm to be fabricated and supplied as per instructions of site engineer. Separation between two flats shall be 250mm or less as per site requirement.All materials required for scaffolding/cable carrier to be supplied by the contractor. All the fixing materials i.e. bolts nuts washers insulators, cement, concrete etc. will be supplied by contractor. This includes cleaning, priming by red oxide, painting with standard mark paints. (Inspection :Engg representative.)							
3	3	10.00	Numbers	158.14	1581.40	AT Par	1581.40	
	Description:- Fixing, wiring & soldering of 200 way tag blocks, conforming to drg no. SA-24753 or latest and as per IRS:S-77/2006(Rev.1) or latest, on cable termination rack/relay rack/block rack/HV rack . All fixing material like flats, bolts, nuts, washers etc. will be supplied by the contractor.Only 200 way tag blocks shall be supplied by RCIL/Railway. (Inspection : Engg representative.)							
4	4	200.00	Numbers	439.25	87850.00	AT Par	87850.00	
	Description:- Wiring of relays in relay room/relay huts as per approved wiring diagrams. All material required including indoor cables and wires of 1x1, 1 x0.6, 3 /0.29, 16/0.02, 40 x 0.6, 40 x 1, 60 x 0.6, 60 x 1 dia of copper conductor as per NR practice conforming to IRS specifications, resistance and condensers is to be supplied by the contractor. This also includes wiring from CT rack to tag block, tag block to relays & wiring of fuse etc. required in connection with relay room /relay hut wiring and soldering, dressing, bunching, lacing, fixing of relay bases etc. and provision of LED indication of vital relays in relay room and provision of potential free contacts for relays on tagblock for data logger as per instruction of site Engineer. This also includes dressing, bunching, lacing and fixing of relay bases. (Inspection: Engg representative)							
5	5	5.00	Numbers	5779.09	28895.45	AT Par	28895.45	
	Description:- Fabrication, wiring & supply of Simulation panel as per drawing no. SSTE/ PS/1562 dt. 5.9.2001. This includes wiring from Relay room to the simulation panel. Only indoor cables (for wiring between relay room and simulation panel), ARA terminals and fuse bases shall be supplied by Railway.All materials such as on/off/2way switches, wires, strips & tagblocks etc. to be supplied by the contractor(unless explicitly mentioned in this item as Railway supply). (Inspection: Engg representative)							
6	6	5.00	Numbers	9754.24	48771.20	AT Par	48771.20	
	Description:- Fabrication, wiring & supply of lamp board as per drawing no. SSTE /PS / 1563 dt. 5.9.2001. This includes wiring from Relay room to the lamp board. Only indoor cables(for wiring between relay room and lamp board) shall be supplied by RCIL/Railway. All materials such as wires, strips, tagblocks, lamps & holders etc. including sufficient lamps for testing to be supplied by the contractor(unless explicitly mentioned in this item as RCIL/Railway supply). (Inspection: Engg representative)							
7	7	15.00	Sqm	2309.24	34638.60	AT Par	34638.60	
	Description:- Supply, writing and fixing of description boards made of ply 6mm thick with white sunmica glued over its surface and 1"x1" wooden batton fitted all around on the rear as per instruction of Engineer at site. All the materials to be supplied by contractor. (Inspection: Engg representative)							
8	8	5.00	Numbers	9176.22	45881.10	AT Par	45881.10	
	Description:- A set consisting of one shelf 0.3 mtr wide adjoining operating panel two side desk of size 0.6 mtr X 1.2 mtr with two shelves & two drawers in each desk one revolving chair for ASM to operate the equipments. The desk & shelf must be made with prelaminated wooden board of size 20 mm thick of reputed make light NOVAPAN (Colour of the lamination to match with the colour of panel). The chair should be Godrej make model No. PCH 7112R or similar. The desk is o be fitted as per instructions of site engineer. (Inspection: Engg representative)							
9	9	28000.00	Metre	72.65	2034200.00	AT Par	2034200.00	

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		Description:- Excavating and refilling of trench in Normal Soil to the level of ground with rammed earth as per drg. No.(NR/S&T/CON/1.1/97-A) so as not to form a drain 0.3 Mtrs. Wide & 1 Mtr. Deep on both side of the station alongside the track. It shall conform to the safe distance as per signalling and cable plan. It also includes clearance of routes of trees & bushes. Lesser depth of the trench is to be paid proportionately. (Inspection: Engg representative)					
10	10	224000.00	Numbers	7.77	1740480.00	AT Par	1740480.00
		Description:- Supply and laying of 2nd class bricks in the trench and laying as per drg. No.(NR/S&T/CON/1.1/97-A) as per instructions of the site Engineer. (Inspection:Engg representative)					
11	11	934.00	Numbers	255.00	238170.00	AT Par	238170.00
		Description:- Fabrication, supply and fixing of cable marker of 1:3:6 concrete as perNo.NR/S&T/CON/1. 5/97A. The marker shall be fixed at various places of cable route as per instructions of Engr. at site. (Inspection: Engg representative)					
12	12	1000.00	Metre	93.99	93990.00	AT Par	93990.00
		Description:- Excavating and refilling of trench 0.3 Mtr. Wide & 1 Mtr. Deep from bottom of rail flange across the track or 0.5Mtr. from ground level which ever is more (NR/S&T/CON /1.2/97). Earth should be rammed so as not form a drain. This includes removal and refilling of ballast & restoration of surface under normal traffic conditions. Lesser depth of the trench is to be paid proportionately. (Inspection: Engg representative)					
13	13	1000.00	Metre	114.41	114410.00	AT Par	114410.00
		Description:- Excavating and refilling of trench 0.3 Mtr. Wide and 0.8 Mtr. Deep on pitched/Stone/bricks paved surface, road crossing/platform etc. and restoring the surface to its original conditions. Lesser depth of the trench is to be paid proportionately. (Inspection: Engg representative)					
14	14	5000.00	Metre	1738.39	8691950.00	AT Par	8691950.00
		Description:- Boring & trenchless cabling along with supply and insertion of HDPE self-lubricated pipes of 90 mm nominal dia (DN) with material classification as PE-80 and Nominal Presssure PN-6 as per IS:4984-95 (with latest Amendments) in the bore for the laying of Signaling/Telecom./Power cables under the track/road. Depth of horizontal boring should be minimum 1500 mm from bottom of rail flange/Road level. (Cable laying is covered separately). (Inspection of HDPE Pipe: RITES)					
15	15	500.00	Metre	416.43	208215.00	AT Par	208215.00
		Description:- Supply & laying of RCC pipe including split pipe where required of size 150 mm inner dia, 2 meter long with collar (or ring at joints) as per latest IS spec. No. 458 -1988 (with latest amendments) in trench across the track / road & L-xing gates etc. as per Drg. No. NR/S&T/ CON/1.2/ 97 & 1.1/97-A and as per instructions of site engineer. (Inspection : Engg representative.)					
16	16	551000.00	Metre	8.35	4600850.00	AT Par	4600850.00
		Description:- Laying of signalling/Telecom/power cables of different sizes as per drg. No.(NR/S&T/CON/1.1/97-A) and as per cable route plan approved by RailTel/Railway and meggering of cable before and after its laying of all type of outdoor cables. Meggering to be done for each drum separately Meggering sheets to be supplied and filled up by contractor and submitted to RailTel. (Inspection: Engg representative.)					
17	17	15000.00	CORE	13.42	201300.00	AT Par	201300.00
		Description:- Testing & meggering of all types of outdoor cables before & after its laying and termination on both ends and providing identification ferrule on each core under supervision of RCIL/Railway representative. This also includes preparation of test report for core to core & core to earth on prescribed proforma for each core of the cable separately after termination of cable. This also includes dressing & lacing of cable on both ends. Proforma for testing & material for lacing to be supplied by the contractor. (Inspection: Engg representative)					
18	18	253.00	Numbers	5788.17	1464407.01	AT Par	1464407.01
		Description:- Casting, concreting and curing of foundation and erection of Single app.cases as per Drg.No.NR/S&T/CON/2.7/97. All material such as cement,sand,aggregate and anchor bolt shall be supplied by contractor . App. Case Single will be supplied by Railway. Contractor is required to execute all type of repair works of foundation if required during inserting the cable for termination. (Inspection: Engg representative)					
19	19	112.00	Numbers	5078.33	568772.96	AT Par	568772.96
		Description:- Casting, concreting and curing of foundation and erection of half app.cases as per Drg.No.NR/S&T/CON/2. 8/97. All material such as cement,sand,aggregate and anchor bolt shall be supplied by contractor . App. Case half will be supplied by RCIL/Railway. Contractor is required to execute all type of repair works of foundation if required during inserting the cable for termination. (Inspection :Engg representative.)					
	i	125.00	Numbers	5968.17	746021.25	AT Par	746021.25

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20	Description:- Preparation of App. Case single involving wiring of relays. it includes - (i) Preparation & fixing of bakelite hylum sheet 910x800x6mm and teak wooden shelf 900x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts & bolts. (ii) Fixing of fuses, ARA terminal shelf type Q series relays and other type relays on square bars fixing and jamming of cables with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank & all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry works covered with sand and plastering. (iii) Description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. (iv) All materials including hard wood shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specn., non deteriorating type HRC fuses, bases, nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the RailTel. (Inspection :Engg representative.)						
	ii	80.00	Numbers	4908.68	392694.40	AT Par	392694.40
20	Description:- Preparation of App. Case single not involving wiring of relays. it includes - (i) Preparation & fixing of bakelite hylum sheet 910x800x6mm and teak wooden shelf 900x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts & bolts. (ii) Fixing of fuses, ARA terminal shelf type Q series relays and other type relays on square bars fixing and jamming of cables with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank & all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry works covered with sand and plastering. (iii) Description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. (iv) All materials including hard wood shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specn., non deteriorating type HRC fuses, bases, nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the RailTel. (Inspection :Engg representative.)						
	iii	48.00	Numbers	2935.21	140890.08	AT Par	140890.08
20	Description:- Preparation of App. Case to be used as battery box. (Not requiring shelf . Hylum of size 910x150 x 6mm only required).it includes - (i) Preparation & fixing of bakelite hylum sheet 910x800x6mm and teak wooden shelf 900x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts & bolts. (ii) Fixing of fuses, ARA terminal shelf type Q series relays and other type relays on square bars fixing and jamming of cables with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank & all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry works covered with sand and plastering. (iii) Description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. (iv) All materials including hard wood shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specn., non deteriorating type HRC fuses, bases, nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the RailTel. (Inspection :Engg representative.)						
	i	27.00	Numbers	4008.03	108216.81	AT Par	108216.81
21	Description:- Preparation of App. Case half involving wiring of relays. (i) Preparation and fixing of bakelite hylum sheet 450x800x6mm and teak wooden shelf 450x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mm/25mm/3mm. Angle iron frame will be fixed in location box secured by nuts & bolts.(ii) Fixing of fuse ARA terminal, shelf type Q series relays and other type of relays on square bars, fixing and jamming of cable with 2 inch thick salwood plank provided at the bottom. This will include opening, twisting and jamming armor of each cable in the hole drilled separately for each cable through the salwood plank and of cable entry points on location boxes, location nuts JB's relays room battery/room to be closed with suitable masonry work covered with sand & plastering.(iii) Wiring description for terminal, drawing of circuits inside app. Case. Painting from outside as well as inside with RED oxide aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engr. at site.(iv) All material including teak wood shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS spec. Non deteriorating type HRC fuses and bases nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the RailTel. (Inspection Engg representative)						
	ii	35.00	Numbers	3390.24	118658.40	AT Par	118658.40

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21	Description:- Preparation of App. Case half not involving wiring of relays.(i) Preparation and fixing of bakelite hylum sheet 450x800x6mm and teak wooden shelf 450x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mm/25mm/3mm. Angle iron frame will be fixed in location box secured by nuts & bolts.(ii) Fixing of fuse ARA terminal, shelf type Q series relays and other type of relays on square bars, fixing and jamming of cable with 2 inch thick salwood plank provided at the bottom. This will include opening, twisting and jamming armor of each cable in the hole drilled separately for each cable through the salwood plank and of cable entry points on location boxes, location nuts JB's relays room battery/room to be closed with suitable masonry work covered with sand & plastering.(iii) Wiring description for terminal, drawing of circuits inside app. Case. Painting from outside as well as inside with RED oxide aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engr. at site. (iv) All material including teak wood shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS spec. Non deteriorating type HRC fuses and bases nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the RailTel. (Inspection Engg representative)						
	iii	50.00	Numbers	2404.94	120247.00	AT Par	120247.00
21	Description:- Preparation of Apparatus Case half to be used as Battery Box (Not requiring shelf .Hylum of size 450 x 150 x 6 mm only required) (i) Preparation and fixing of bakelite hylum sheet 450x800x6mm and teak wooden shelf 450x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mm/25mm/3mm. Angle iron frame will be fixed in location box secured by nuts & bolts.(ii) Fixing of fuse ARA terminal, shelf type Q series relays and other type of relays on square bars, fixing and jamming of cable with 2 inch thick salwood plank provided at the bottom. This will include opening, twisting and jamming armor of each cable in the hole drilled separately for each cable through the salwood plank and of cable entry points on location boxes, location nuts JB's relays room battery/room to be closed with suitable masonry work covered with sand & plastering.(iii) Wiring description for terminal, drawing of circuits inside app. Case. Painting from outside as well as inside with RED oxide aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engr. at site.(iv) All material including teak wood shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS spec. Non deteriorating type HRC fuses and bases nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the RailTel. (Inspection Engg representative)						
22	22	20.00	Sqm	4980.80	99616.00	AT Par	99616.00
	Description:- Supply & fixing of bakelite sheet 6 mm thick of grade P-1001 (paper based) hylum Make or any other reputed brand conforming to IS spec.no.IS-1998-1962 B22 in existing locations or any other place as per instructions of site engineer. (Inspection: Engg representative).						
23	23	70.00	Numbers	10722.32	750562.40	AT Par	750562.40
	Description:- Casting, concreting and curing of foundation for main signal as per Drg. no. NR/ S&T/ CON/2.1/97 all material such as anchor bolts cement & aggregate to be supplied by contractor. (Inspection: Engg representative)						
24	24	30.00	Numbers	3593.83	107814.90	AT Par	107814.90
	Description:- Casting, concreting and curing of foundations for shunt signal as per drg. No. NR/ S&T/ CON/2.1/97-A. All material such as cement, sand, aggregate & foundation bolts will be supplied by contractor. (Inspection: Engg representative)						
25	i	39.00	Numbers	2832.74	110476.86	AT Par	110476.86
	Description:- Installation, erection, wiring of 2 aspect color light signal - it includes (a) Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off set bracket and fitting ladder and guard to the post at the top. Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 feet between the height 6' 9" and 7' 9" from the rail level by MS angle and MS sheet 6mm thick wherever required.(b)Provision of wooden (sal) cross arm 1 M x 1M for CLS unit prior to the commissioning, fixing of lense, lamp holder/lamp current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit & foxing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways published by Govt. of India and approved drawings. (c) All items for the above works except signal unit, LED signal, Signal post, base and ladder shall be supplied by the contractor including but not limited to the following: (i) "U" bolt for offset brackets.(ii) Wooden cross arm 1 mtr. x 1 mtr.(iii) MS angle and MS sheet for blanking of ladder.(iv) Wire mesh guard, lock for unit if required, nuts and bolts etc. (v) Supply and fixing of Signal Number Plate (Retrorefelctive Type) with complete fittings as per standard railway practice.(Inspection:Engg representative.)						
	ii	31.00	Numbers	4146.73	128548.63	AT Par	128548.63

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25	Description:- Installation, erection, wiring of 3/4 aspect color light signal - it includes (a) Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off set bracket and fitting ladder and guard to the post at the top. Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 feet between the height 6' 9" and 7' 9" from the rail level by MS angle and MS sheet 6mm thick wherever required.(b)Provision of wooden (sal) cross arm 1 M x 1M for CLS unit prior to the commissioning, fixing of lense, lamp holder/lamp current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit & foxing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways published by Govt. of India and approved drawings. (c) All items for the above works except signal unit, LED signal, Signal post, base and ladder shall be supplied by the contractor including but not limited to the following: (i) "U" bolt for offset brackets.(ii) Wooden cross arm 1 mtr. x 1 mtr.(iii) MS angle and MS sheet for blanking of ladder.(iv) Wire mesh guard, lock for unit if required, nuts and bolts etc. (v) Supply and fixing of Signal Number Plate (Retrorefelctive Type) with complete fittings as per standard railway practice.(Inspection:Engg representative.)						
	iii	20.00	Numbers	4083.24	81664.80	AT Par	81664.80
25	Description:- Installation, erection, wiring of 2/3/4 aspect colour light signal including 1/2/3/4/5 way Jn. type/Stencil/Theatre type route indicator which also includes fixing of route indicator on the top of the signal post or on offset bracket including fixing of offset bracket, wiring the whole unit, focusing of signal & route indicators. All items for installation and erection including unit junction type route indicator and offset bracket to be supplied by Railway. Wiring & other fixing material, 'U' bolts will be supplied by the contractor - it includes (a) Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off set bracket and fitting ladder and guard to the post at the top. Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 feet between the height 6' 9" and 7' 9" from the rail level by MS angle and MS sheet 6mm thick wherever required. (b) Provision of wooden (sal) cross arm 1 M x 1M for CLS unit prior to the commissioning, fixing of lense, lamp holder/lamp current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit & foxing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways published by Govt. of India and approved drawings. (c) All items for the above works except signal unit, LED signal, Signal post, base and ladder shall be supplied by the contractor including but not limited to the following: (i) "U" bolt for offset brackets.(ii) Wooden cross arm 1 mtr. x 1 mtr.(iii) MS angle and MS sheet for blanking of ladder.(iv) Wire mesh guard, lock for unit if required, nuts and bolts etc. (v) Supply and fixing of Signal Number Plate (Retrorefelctive Type) with complete fittings as per standard railway practice.(Inspection:Engg representative.)						
	26	30.00	Numbers	1124.11	33723.30	AT Par	33723.30
26	Description:- Installation, erection and wiring of independent position light shunt signal/F Marker.This includes fixing of shunt signal, surface base & signal post, LED & wiring of shunt unit. All material such as wire etc. will be supplied by the contractor. (Inspection:Engg representative)						
	27	40.00	Numbers	925.67	37026.80	AT Par	37026.80
27	Description:- Installation, erection and wiring of calling-on / shunt signal on the same post below main signal on offset bracket. Which also includes fixing of stencil and hoods, wiring and focussing of the signal. Offset brackets, calling on signal/shunt signal complete will be supplied by RailTel (Supply of calling on signal is covered separately, elsewhere in the schedule). U-bolts for offset bracket & wire and wiring material will be supplied by the contractor. (Inspection:Engg representative)						
	28	50.00	Numbers	8383.81	419190.50	AT Par	419190.50
28	Description:- Fixing, wiring, testing and proper adjustment of point machines as per std. Practice. It also includes -i) Fixing of switch extension / P bracket, providing insulation for switch extension bracket/P-bracket/L-bracket , fixing ground connection, adjusting the correct opening of switches and adjusting the point machines with crank handle. ii) Supply of wiring material and wiring inside the point machine & 30 line junction box provided with terminals strip for cable termination. iii) Supply and fixing of GI pipes with flange for taking cable into point machine and junction box through Gland/ GI pipe.iv) Complete material for installation viz.GI pipes/Gland Pipe, wiring materials, various fixing nuts and bolts, angle irons (75mm x 75mm x 10mm), channel for fixing the machine, lugs for point rodding and insulation for stretcher bar 90R/52/60Kg. As per RDSO drawing No.SA-23172(Adv.) Alt. 1 will be supplied by the contractor.						
	29	39.00	Numbers	9437.20	368050.80	AT Par	368050.80
29	Description:- Installation of KLCR & its box in location boxes, supply & installation of heavy duty push button, LED indicator on M.S sheet of 4.5 mm thick inside location box for crank handle locking. The wok includes fixing & wiring of magneto telephones, wiring of KLCR, push buttons and termination of tail cables as per instructions of site Engineer. All material except KLCR relay & its box and magneto telephone to be supplied by the contractor. This also includes fixing of wards on point machine.Foundation & installation of location box is covered as separate item of schedule. (Inspection:Engg representative)						
	i	106.00	Numbers	9547.89	1012076.34	AT Par	1012076.34

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30	Description:- Installation & wiring of Berthing and straight track circuits to suit RE area as per std. Practice - This will include following :- (a) Drilling of holes 7.2 mm dia or size as required. Provision of continuous GI wire bonding on switch portion & crossing of points with two bond wires at each joints. 8 SWG GI soft bond wire, channel bond pins & all other material required will be supplied by the contractor.(b) Jumpering from rail to rail or to track lead junction box including polarity jumpers /cables in case of point track circuit as per drg. No.NR/S&T/CON/3.1/97 and as per jumpering plan. This includes drilling holes, fixing of jumpers to the rails , terminating the jumpers in the TLJBs and fixing the jumper as per site requirement and instructions of site Engineer. One TLJB to be provided extra for each polarity jumper/cable. All materials including fiber TLJBs, GI pipe are to be supplied by the contractor. (c) Fixing of insulated block joints complete with provision of skimmed fish plates (where ever required). Fish plates shall be supplied by the RailTel but skimming is to be got done by contractor. Supply of insulation material is not included. (d) Fixing of TLJBs as per drg. No.(NR/ S&T/ CON/ 3. 2/ 97) along with providing concrete foundation and plastering on both ends i.e. T.F. and TR end and termination of tail cables at both ends. All material for fixing including angle iron, cement, sand etc. shall be supplied by the contractor. This also include supply of TLJBs with provision of M-6 terminals. TLJBs to be written with track circuit number. (e) Wiring in the app. Case of TF battery chargers, TF resistances 30 Ohm, track relays, chokes (at both feed end and relay end) & batteries etc. as per the standard practice using NDT fuses with fuse bases and terminals. This include supply of all material by contractor except TF battery charger, batteries, fuse with bases, Choke and relays which shall be supplied by the RCIL / Railway. The wiring shall be done with 3/0.029" copper conductor PVC wire of approved quality. (f) Commissioning of track circuits as per provisions of paras of IRS spec. No. S-36/81. This includes adjustment of track feed resistance and testing with train shunt resistance. (Inspection:Engg representative.)						
	ii	44.00	Numbers	16509.76	726429.44	AT Par	726429.44
30	Description:- Installation & wiring of Point track circuits having single point (excluding traps.Trap points & one main point to be counted as single point track circuit) to suit RE area as per std. Practice - This will include following :- (a) Drilling of holes 7.2 mm dia or size as required. Provision of continuous GI wire bonding on switch portion & crossing of points with two bond wires at each joints. 8 SWG GI soft bond wire, channel bond pins & all other material required will be supplied by the contractor.(b) Jumpering from rail to rail or to track lead junction box including polarity jumpers /cables in case of point track circuit as per drg. No.NR/S&T/CON/3.1/97 and as per jumpering plan. This includes drilling holes, fixing of jumpers to the rails , terminating the jumpers in the TLJBs and fixing the jumper as per site requirement and instructions of site Engineer. One TLJB to be provided extra for each polarity jumper/cable. All materials including fiber TLJBs, GI pipe are to be supplied by the contractor. (c) Fixing of insulated block joints complete with provision of skimmed fish plates (where ever required). Fish plates shall be supplied by the RailTel but skimming is to be got done by contractor. Supply of insulation material is not included. (d) Fixing of TLJBs as per drg. No.(NR/ S&T/ CON/ 3. 2/ 97) along with providing concrete foundation and plastering on both ends i.e. T.F. and TR end and termination of tail cables at both ends. All material for fixing including angle iron, cement, sand etc. shall be supplied by the contractor. This also include supply of TLJBs with provision of M-6 terminals. TLJBs to be written with track circuit number. (e) Wiring in the app. Case of TF battery chargers, TF resistances 30 Ohm, track relays, chokes (at both feed end and relay end) & batteries etc. as per the standard practice using NDT fuses with fuse bases and terminals. This include supply of all material by contractor except TF battery charger, batteries, fuse with bases, Choke and relays which shall be supplied by the RCIL / Railway. The wiring shall be done with 3/0.029" copper conductor PVC wire of approved quality. (f) Commissioning of track circuits as per provisions of paras of IRS spec. No. S-36/81. This includes adjustment of track feed resistance and testing with train shunt resistance. (Inspection:Engg representative.)						
	31	30080.00	Ampere Hour	2.52	75801.60	AT Par	75801.60
31	Description:- Charging of sec. cells (with contractor's own charging equipment) as per standard charging procedure. Two number of charged/discharged cycles should take place as per standard practice. All the charging materials including sulphuric acid conforming to latest IRS spec. and battery grade distilled water conforming to latest IRS spec. will be supplied by the contractor. (Inspection:Engg representative)						
	32	50.00	cum	129.81	6490.50	AT Par	6490.50
32	Description:- Earth work around location boxes, signals etc. where necessary including 50m lead and 1.5m lift by excavation. The lead be measured from the centre of gravity of excavation to the centre of filling and the lift, from mean ground level. The earth shall be rammed including breaking of clods, levelling and dressing. The earth work around the location/junction boxes shall be upto the plaster level and for width sufficient for the maintainer to attend the box both from front & back side). (Inspection: Engg representative.)						
	33	50.00	cum	2860.82	143041.00	AT Par	143041.00
33	Description:- General concrete work in cement, coarse sand and aggregate ratio 1:3:6 scattered at different places for items not covered in above schedule. Volume of foundation also includes volume of C.I. base, anchor bolts. Coarse sand, aggregate 25mm and cement to be supplied by contractor. (Inspection: Engg representative)						
	34	50.00	cum	3373.90	168695.00	AT Par	168695.00
34	Description:- Brick work with well burnt bricks in foundations and plinths with cement and sand (ordinary)mixture of 1:4 ratio. All material is to be supplied by the contractor. (Inspection: Engg representative.)						
	35	360.00	Numbers	3212.21	1156395.60	AT Par	1156395.60

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35	Description:- Supply burying of earth electrodes pipe of 3 metre length and 50 mm dia. pointed on lower end by tapering for a length of 150mm as per drg. No. NR / S&T/ Proj /16.1 /2015 and connecting with lightening arrester or signalling gears as per std. practices. The item includes digging of pit in earth 3 Mtrs. deep and fixing earth electrode pipe in it. Earth pipe shall be buried in the ground to the length of 2.7 Mtr after welding 6 SWG wire at the lower end and fixing through nut and bolt at the top. This includes casting of cement concrete enclosures as per drg. No. NR / S&T/ Proj /16.2 /2015 . The enclosure is to be plastered on all sides with cement & sand mixture of 1:4 ratio. The soil treatment shall be done as per standard practices. The item includes provision of earth lead wires 6 SWG and soldering of lead wires. The other end of the earth wire to be connected to block instruments/ cable sheath/ power equipment / apparatus case/ relay racks or any other equipment as per the instructions of site Engineer & as per IRSEM. (Inspection:Engg representative)						
36	36	34.00	Numbers	569.84	19374.56	AT Par	19374.56
	Description:- Installation of desk type magneto telephone with all accessories including Standard battery box and 3 nos. of 6 l cells. All materials for this installation including standard battery box and 6l cells will be supplied by the contractor. Only desk type magneto telephone will be supplied by RCIL/Railway. (Inspection:Engg representative)						
37	37	5.00	Station	230273.00	1151365.00	AT Par	1151365.00
	Description:- Cleaning , Scrapping , Painting and lettering of all newly installed and existing gears such as signals, point equipment, track circuit equipment with T.C. no on rail, app. Cases, JB, TL JB's, point rodding cranks, compensators etc. including gate equipment if existing in station section as per the provision of IRSEM. All painting material to be supplied by the contractor. All paints (ISI marked) shall be approved by Railway Engineer prior to painting and certificate to this effect submitted to Railway. This item also includes writing and painting requirement of all indoor and outdoor gears along with making of all circuit nos. near terminal and terminal boards/track in app. cases, junction boxes, relay room, SMs room, writing of relay nomenclature fuse nos. and equipment nomenclature as the approved plans and as per provision of IRSEM at Way side station. (Inspection:Engg representative)						
38	38	6.00	Set	73467.16	440802.96	AT Par	440802.96
	Description:- Installation, testing & commissioning of HASSDAC. This includes integration of HASSDAC with block instruments. (Inspection:Engg representative)						
39	39	15.00	Numbers	3606.64	54099.60	AT Par	54099.60
	Description:- Installation wiring & commissioning of 4 wire way station equipment. Item required for insallation such as wires, wiring material, connectors, battery rack run way, hardware etc to be supplied by contractor. (Inspection :Engg representative)						
40	40	10.00	Hour	939.24	9392.40	AT Par	9392.40
	Description:- Engaging mechanical excavators like JCB or other machineries for regrading & leveling the formation, dismantling any infringing structures, cleaning & removing debris etc. with all lead & lift etc complete as per instructions of RCIL/Rly representative at site.						
41	41	5.00	Numbers	15014.28	75071.40	AT Par	75071.40
	Description:- Fabrication, supply, installation and wiring of power supply board in IPS Room/relay hut/relay room as per drg No SSTE/PS/1237 dt 26.02.92 and extension of the powersupplies from IPS to power supply board and from power supply board upto MDF board. This includes fixing of ARA terminals, fuse bases, switches etc and termination of power wires/cables. This includes supply of all wiring and termination materials except terminals and fuses, power and underground cables/wires. wherever outdoor U/G cables are to be laid it is covered separately.						
42	42	5.00	Numbers	17342.77	86713.85	AT Par	86713.85
	Description:- Freight charges of complete IPS System from RCIL/Railway Store to Station along with loading and stacking at proper place.						
43	43	5.00	Numbers	52253.35	261266.75	AT Par	261266.75
	Description:- Installation of Single Phase DG set 20 KVA with 20 BHP Diesel Engine. This also includes foundation (DG foundation as per drg. No. RE/S&T/Tender/SK/12/03 dt. 20.04.88 or as specified by OEM of DG set), installation, earthing of the above as per manufacturer guidelines and commissioning of the DG set with sound proof enclosure in the DG Room ,with push button start and changeover switch in ASM's room as per the instructions of the site Engr and technical conditions of the tender document. All materials required for the foundation, installation, earthing & wiring of the above are to be supplied by the contractor except laying of U/G Power cable from DG room to ASM's room which is covered separately. DG set to be installed by OEM or under supervision of EOM. Certificate from OEM for this DG set installation is to be supplied by the contractor. (Inspection : Consignee/ Site Engg.)						
44	44	5.00	Numbers	8064.89	40324.45	AT Par	40324.45
	Description:- Installation , witing and commissioning of AMF panel control cubicle in ASM room as per standard drawing with technical condition of tender document. (Inspection : Consignee/Site Engg.)						
45	45	2.00	Kilometre	10936.63	21873.26	AT Par	21873.26

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	Description:- Blowing/Drawing of OFC/ Telecom cable in the HDPE duct/GI/DWC pipe by mechanical system. (Inspection by Site Engineer)						
46	46	41.00	Numbers	3510.23	143919.43	AT Par	143919.43
	Description:- Removal of existing mechanical point fittings and FPL assembly from points, fixing of point machine, ground connection, adjustment of point opening to required inches and testing with crank handle for operation , removal of ground connection , point machine.						
47	i	67.00	Numbers	1192.70	79910.90	AT Par	79910.90
	Description:- Dismantling and releasing of colour light signal/semaphore signal post which includes dismantling of signal fittings complete. All dismantled material to be transported and stacked in the store of RCIL / SSE/Sig/Store/ASR or any other store of Northern Railway. Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
47	ii	2500.00	Metre	17.82	44550.00	AT Par	44550.00
	Description:- Dismantling and releasing of rod run from lead off and final to different function i.e. points, locks, lock bars/holding bars/clearance bar which includes cranks, compensators, trestles 4/2 way bottom rollers, top rollers, top pins point equipment sodding. All dismantled material to be transported and stacked in the store of RCIL or SSE/Sig/Store/ASR or any other store of Northern Railway. Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
47	iii	50.00	Numbers	597.41	29870.50	AT Par	29870.50
	Description:- Dismantling and releasing of lever frames which includes all S&T fittings of electrical and mechanical on top floor and basement of the cabins and station. All dismantled material to be transported and stacked in the store of RCIL or SSE/Sig/Store/ASR or any other store of Northern Railway. Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
47	iv	41.00	Numbers	1301.13	53346.33	AT Par	53346.33
	Description:- Dismantling and releasing of point signalling gears which include facing point lock/ hand plunger lock/ lock bar/holding bar/electric point detector/mechanical detector along with their complete attachments. Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
	v	150.00	Numbers	683.39	102508.50	AT Par	102508.50

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47	Description:- Dismantling and releasing of location boxes/Apparatus cases/Jn boxes including releasing of terminal boards,relays,terminals, batteries,track feed chargers & other associated fittings installed therein. complete with fittings. All dismantled material to be transported and stacked in the store of RCIL or SSE/Sig/Store/ASR or any other store of Northern Railway.Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
47	vi	10.00	Job	10246.22	102462.20	AT Par	102462.20
47	Description:- Dismantling and releasing of S&T gears in battery rooms and relay rooms. This includes all the equipments and the relays, relay racks, termination boards, batteries, battery chargers, angle irons etc.Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
47	vii	10.00	Numbers	661.85	6618.50	AT Par	6618.50
47	Description:- Dismantling and releasing of Block instruments single line/Double line which includes releasing of terminal boards, relays, terminals, batteries, chargers etc.and other concerned fittings and transporting to the store of RCIL or SSE/Sig/C/ASR or any other store of Northern Railway.Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
47	viii	11.00	Numbers	3068.19	33750.09	AT Par	33750.09
47	Description:- Dismantling of lifting barrier/gate leaves/ELB complete set alongwith winch, wire rope, boom locking arrangements.All dismantled material to be transported and stacked in the store of RCIL or SSE/Sig/Store/ASR or any other store of Northern Railway.Notes: (1) Before dismantling a joint survey is to be done with the site Engineer and report must be submitted to the controlling officer in duplicate. Tools & plants, ladders, scaffoldings and all other equipments required for dismantling to be arranged by the contractor at his own cost. (2) The rates given for dismantling are subject to the following conditions in addition to the conditions as laid down in NR General conditions of contract and Standard Specifications. (3) Unless or otherwise specified the rates covers the cost of tools & plants,ladders,scaffoldings and all other equipments required for dismantling. (4) Unless otherwise specified, the rates includes leading of material up to the store of RCIL or SSE/C/ASR, stacking dismantled material in the store as required specially itemwise or transporting to SSB depot or JUD workshop as per directions of site engineer.						
48	48	8.00	Job	57568.58	460548.64	AT Par	460548.64
48	Description:- Foundation, Installation, testing & commissioning of Interlocked Electric lifting barrier complete with panel, motor, booms, weights, warning bells hooters etc. & key chain interlocking along with electric lever locks includes casting of foundation for gate machines, installation & wiring of hooters to make the system as per approved diagrams/plans & as per instruction of site engineer. This includes fixing of E Type lock, both lifting barriers along with boom locking arrangements. This also includes fixing & wiring of lever lock etc. This also includes carrying out wiring digging, cable laying from gate relay room to gate machine etc.(Inspection:Engg representative.)						
49	49	8.00	Numbers	34119.47	272955.76	AT Par	272955.76

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			Description:- Fixing in position and commissioning of sliding barrier boom set (1 set will consist of two sliding barrier booms, one for either side of track) as per Northern Railway practice, this includes carrying out civil masonry work at site like digging of pits for foundations, casting of RCC foundations, fixing of foundation bolts and putting the casted blocks on proper alignment (10 Nos at each site of size 18"x18"x36"). This also includes loading,unloading and leading of all the material to site of work from the store of RCIL/ SSE Signal. Sliding barrier has to be made ready in complete working order as per instructions of Site engineer. sliding gate, E type lock,T-2 lock and wiring materials will be supplied by the RailTel and all other material including cement, sand, aggregate (Ratio of cement, coarse sand and aggregate should be 1:3:6), nut bolt etc will be supplied by the contractor. (Inspection:Engg representative)				
50	50	2.00	Numbers	3368056.00	6736112.00	AT Par	6736112.00
			Description:- Addition / alteration in Electronic Interlocking at adjacent stations. Modification/ Alteration/ augmentation of existing Electronic Interlocking as per RDSO specification no. RDSO/SPN/192/2005 as per approved signalling plans and selection table/locking table of stations (for upgradation of interlocking and work of electronic interlocking) as per technical specifications and special condition of contract. This includes supply of material necessary for EI alteration/ modification including in VDUs software, this also includes supplies necessary for earthing the modified/ altered/ augmented EI, those needed for re-writing the external data logger and fuse alarm system etc. Item also includes preparation of Selection table, control panel and route section plan and other documents (other technical documents if any) based on Signalling plans supplied by the RailTel/Railway. Completion documents as per special condition of contract				
51	51	5.00	Numbers	3200.59	16002.95	AT Par	16002.95
			Description:- Preparation of SWR literature in English along with associated mid section interlocked gate with all corrections as per approved SWRD and approved SIP. For this all technical corrections, editing, grammatical corrections etc. to be carried out and one rough print to be given to Railways for approval before printing, as required for final processing of CRS sanction. This also includes preparation of maintenance cards in the format provided by Railway.				
52	52	5.00	Numbers	3987.04	19935.20	AT Par	19935.20
			Description:- Translation of Station Working Rules (SWR) from English to Hindi and framing it DIGLOT form as per extant Railway practice. The required SWR in English will be provided by Contractor and has been covered separately in this schedule.				
53	53	50.00	Numbers	158.79	7939.50	AT Par	7939.50
			Description:- Making Photocopies and binding of SWR literature in English/Hindi DIGLOT form as per Railway practice.				
54	54	15.00	Numbers	10000.00	150000.00	AT Par	150000.00
			Description:- Provision of Temporary Tents / Goomtees at both ends of Station with light , water , MT, Table ,Chairs etc. during NI Work.				
55	55	16.00	Numbers	67415.56	1078648.96	AT Par	1078648.96
			Description:- Supply and installation of 3 aspect CLS UNIT as per RDSO spec. No. IRS: S-26/64 or latest mounted on Signal post for road users , this includes supply of Ladder assembly , LED signals as per RDSO/SPN/199/2020/REV. 1 or latest etc. Item includes Padlock for the unit.				
56	56	16.00	Numbers	6175.66	98810.56	AT Par	98810.56
			Description:- Casting of CC foundation for Road User signal in the ratio of 1:3:6 as per NR Drg. Using Std. Size of foundation /galvanised holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator , curing and plastering with 1:4 cement sand mixture (Aggregate , cement,sand and holding down bolts will be supplied by contractor.Any machine, tool etc if required for excavation will be arranged by contractor)				
57	57	16.00	Numbers	5607.96	89727.36	AT Par	89727.36
			Description:- Supply and installation of Dual Tone bell/ buzzer with flasher arrangement and 20 watt horn working on 24 V DC/ 110V AC for warning to road users at LC gates.				
58	58	150.00	Metre	499.90	74985.00	AT Par	74985.00
			Description:- Supply and fixing of 50 mm. Red/Yellow coloured retro reflective highlighter marker Tape of made non metalised polycarbonate micro prismatic lenses conforming to AIS 90 specification for fixing on BSLB/SLB Board/Stop Signals/LC Gates Make 3M India or equivalent Inspection : RCIL representative.				
59	59	10.00	Numbers	8599.22	85992.20	AT Par	85992.20
			Description:- Provision of screen on Signal when they fall within 2 meters from OHE live conductor by expanding Metal size 20mm X 60mm (strand size 3.25mm wide and 1.6mm thick) as per instruction of site engineer. This includes supply of all other items/material required for completion of work as per Railway practice, including earth electrodes and earthing arrangement . Inspection : RCIL representative.)				
60	60	2.00	Numbers	15178.30	30356.60	AT Par	30356.60
			Description:- Supply of TRANSFORMER 3 KVA, 230V/130/110 V as per IRS Specification No. IRS:S-72/88 (Amd. 2) or latest amendments Inspection RDSO/RITES.				
	61	8.00	Numbers	200125.00	1601000.00	AT Par	1601000.00

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61	Description:- Supply of Emergency sliding Barrier boom gate to be provided on level crossing Gates per latest Northern Railway Practice and Drawing .						
62	62	50.00	Numbers	73.84	3692.00	AT Par	3692.00
	Description:- Supply of safty ped locks of Godrej or Navtal Make size asapproved by site engineer						

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 Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Technical Eligibility Criteria:(a) The tenderer must have successfully completed any of the following (by any Government organizations) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30%of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40%of advertised value of the tender, or One similar work each costing not less than the amount equal to 60%of advertised value of the tender.(please refer Tender Document)	No	No	Allowed (Mandatory)
1.1	Any Relay Interlocking or Electronic Interlocking or Automatic Block Signalling or Intermediate Block Signalling/Intermediate Block Hut work involving indoor & outdoor work (Cable laying & termination). Note 1- Tenderer may be required to submit the schedule of those works, Completion/Performance Certificates of which have been submitted by him/her in support of 30/40/60 % (as the case may be) criterion of similar nature of work. Note 2- a. Submission of 'Undertaking by the tenderer' that the equipment for EI or Axle Counter or AFTC or UFSBI shall be procured from RDSO approved sources and installation, testing and commissioning of EI or Axle Counter or AFTC or UFSBI shall also be got done from the same source including after sales support required during the warranty period. AND b. After the award of the contract, MOU with RDSO approved source covering supply of equipment for EI or Axle Counter or AFTC or UFSBI. Installation, testing & commissioning of EI or Axle Counter or AFTC or UFSBI by the same RDSO approved source including after sales support required during the warranty period before supply of equipment is undertaken.	No	No	Not Allowed

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Eligibility Criteria: As a proof of sufficient financial capacity and organizational resources, the tenderer(s) should have received the total payments against satisfactory execution of all completed/ongoing works of all types (not confined to only similar works) during the last three financial years and in the current financial year {up to the date of inviting of the tender }of a value not less than 150% of the advertised cost of work. The tenderer shall submit certificate of year wise contractual payments received as per Annexure- I, duly certified by Chartered Accountant. Contractual payment received should be based on Audited Balance Sheets or Form 16A /26AS generated through TRACES of ITorcertificate from concerned Department / Client. Note: (i) Client certificate from other than Govt. Organisation should be duly supported by Form 16A/26AS generated through TRACES of IT Department. (ii) The Audited Balance Sheet or Form 16A /26AS from IT TRACES or Certificates from concerned Department / Client as referred for contractual payments received should be submitted alongwith the tender failing which payment received shall not be considered. (iii) In case the figure of contractual payment is not directly available in Audited Balance Sheet, the CA should obtain this figure from the Audited Account based on which the Balance Sheet has been prepared.(As mentioned in Tender document)	No	No	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.

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Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Tenderer should go through Annexure 1 & 2 of Tender Notice (attached in Tender Document) for list of documents required to be uploaded alongwith the offer.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Upload filled & signed Annexure-C:Declaration form regarding site etc.(Format attached with Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
2	Upload filled & signed Annexure-D:Declaration form regarding constitution of firm.(Copy attached with Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
3	Upload filled & signed Annexure-E:List of plant and machinery.(Copy attached with Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
4	Upload filled & signed Annexure-F:List of Engineer/personnel.(Copy attached with Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
5	Upload filled & signed Annexure-G:Statement of works executed/completed by the tenderer/s during last seven years ending last day of month previous to the one in which tender is invited. (Format attached with Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
6	Upload filled & signed Annexure-H:Statement of works being executed/in hand-in support of Bid capacity (mandatory for tender value more than Rs.20 crore (Format attached with Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
7	Upload filled & signed Annexure-I:Detail of contractual payment received in last three financial year and current financial year.(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
8	Upload filled & signed Annexure-J: Real time gross saving(RTGS)/National electronic Fund Transfer(NEFT) model mandate Form.(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
9	Upload filled & signed Annexure-L:Completion certificate(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
10	Upload filled & signed Annexure-Q: Mandatory undertaking regarding employment /partnership of Retired Railway Employees(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
11	Upload filled & signed Annexure-AB:Statement of deviation(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
12	Upload filled & signed Annexure-M:Certificate to be uploaded by tenderer along with the tender documents (Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
13	Upload filled & signed Annexure-S:Mandatory certificate regarding instruction for bidders from a country which shares a land border with India(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
14	Upload filled & signed Annexure-T1:Bid security declaration On Non-judicial stamp paper of Rs. 100/-)(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
15	Upload filled & signed Annexure-K3 & K4:If tender submitted on behalf of partnership firm, relevant annexure K-3 and K-4 as declaration to be submitted by the tenderer.(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
16	Upload filled & signed Annexure-IV/VOL-II: Authorisation by OEM/RDSO approved Indian partner of EI.To be submitted with technical bid(Copy of Format available in Vol-II of tender document)	Yes	Yes	Allowed (Mandatory)

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17	Upload filled & signed Annexure-U: Bidder of Indian origin shall mandatorily submit the Integrity Pact (in 2 copies) on a non judicial stamp paper of Rs. 100/- duly signed by the person signing the bid. Bidder of foreign origin may submit the Integrity Pact on its company's letterhead, duly signed by the person signing the bid.(Copy of Format available in Vol-I of tender document)	Yes	Yes	Allowed (Mandatory)
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Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/We have read all pages of the tender document and understood all terms and conditions mentioned in the tender document and agreed to abide by the same.	No	No	Not Allowed
2	Each page of the documents uploaded along with the bid must be signed and stamped before uploading the same on the IREPS website	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TENDERDOCUMENTFZRDIV.pdf	Tender document
2	SIPCHHINADRMAPPROVED.pdf	SIP Chinna
3	SIPKATHUNANGAL7267.pdf	SIP Kathunangal
4	SIPVERKA7234.pdf	SIP Verka
5	SIPBATALA.pdf	SIP Batala
6	SIPJAINTIPURA.pdf	SIP Jaintipura

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: DHARMINDER KUMAR

Designation : DGM