SR Divisional Signal and Telecomm Engineer Lumding acting for and on behalf of The President of India invites E-Tenders against Tender No **SNT-46-LMG-2026-27** Closing Date/Time 11/12/2026 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Reliability improvement by means of repairs, restoration/ maintenance of signaling assets under the jurisdiction of SSE/Sig/Plain/LMG/IC.		
Bidding type	Normal Tender		
Tender Type	Open	**Bidding System**	Single Packet System
Tender Closing Date Time	11/12/2026 15:00	**Date Time Of Uploading Tender**	16/11/2026 18:36
Pre-Bid Conference Required	No	**Pre-Bid Conference Date Time**	Not Applicable
Advertised Value	16614148.67	**Tendering Section**	SIGNAL
Bidding Style	Single Rate for Tender	**Bidding Unit**	Above/Below/Par
Earnest Money (Rs.)	332300.00	**Validity of Offer (Days)**	65
Tender Doc. Cost (Rs.)	0.00	**Period of Completion**	730 Days
Contract Type	Works - General	**Contract Category**	Expenditure
Bidding Start Date	27/11/2026		
Are JV allowed to bid	No	**Number of JV Member Allowed**	0
Are Consortium allowed to bid	No	**Number of Consortium Member Allowed**	0
Ranking Order For Bids	Lowest to Highest	**Expenditure Type**	Capital (Works)
Zonal Contract	No	**Bids to be obtained**	Inclusive of GST
Composite Tender	No	**PVC Applicable**	No

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A - SOR Items: Supply & Execution							13154221.62	
1	090109	10.00	Numbers	6709.19	67091.90	AT Par	67091.90	
	Description:- Supply of PMDC MOTOR 24V DC, 90W/1500RPM. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest.							
2	090110	10.00	Numbers	2472.00	24720.00	AT Par	24720.00	
	Description:- Supply of boom lock PMDC motor 24V DC/40W/1500RPM.The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest.							
3	090111	2.00	Numbers	728.16	1456.32	AT Par	1456.32	
	Description:- Supply of TIMING BELT. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest.							
4	090115	5.00	Numbers	1028.44	5142.20	AT Par	5142.20	
	Description:- Supply of Limit Switch Set for boom lock proving. The material will be as per RDSO Specn. No.RDSO/SPN/ 208/2012/Ver.2.0 and Amendment 1 or latest.							
5	090108	2.00	Numbers	2054.00	4108.00	AT Par	4108.00	
	Description:- Supply of Power contractor/Relay for motor 24V DC, MAKE L&T MLO/SIEMENS. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest.							
6	090104	2.00	Numbers	5417.00	10834.00	AT Par	10834.00	
	Description:- Supply of Dual Tone Bell /Buzzer with Flasher arrangement and 25-Watt horn and 15 watt amplifier working on 24 V DC/ 110 V AC for warning road users at LC gates.							
7	090113	50.00	Numbers	398.00	19900.00	AT Par	19900.00	
	Description:- Supply of PUSH BUTTON ELEMENTS. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest.							
8	090112	1.00	Numbers	6163.00	6163.00	AT Par	6163.00	
	Description:- Supply of FRICTION CLUTCH SUB ASSEMBLY. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest.							
	90101	1.00	Set	392431.89	392431.89	AT Par	392431.89	

9	**Description:-** Supply of AEW make Electrically Operated Lifting Barrier complete set suitable for 24V DC, supply with hand generator back up & motorized boom locking arrangements as per RDSO Spec. SPN/208/2012 with latest amendment. One set consisting of 2 nos. of lifting barrier pedestals, each with 8 contact circuit controller with top roller type limit switches, hand crank, 2 electric motors, 24vdc of capacity suitable to operate barriers up to 32' long booms, 2 nos. of octagonal booms of 32 feet length with 2 nos. Stop boards, boom light boxes, MS counter weights and 2 nos. of boom support with motorized boom locking but without fringes along with control panel with buttons and indicating lamps, motor connectors and MCB and hand generator (24VDC) to operate 2 barriers of 1 set. This includes supply and installation of gate hooter - 1 no and Dual Tone Bell /Buzzer with Flasher arrangement and 20-Watt horn working on 24 V DC/ 110 V AC (as specified in Tender Document)- 1 no with all fixing arrangements. All of the above items including supply of nuts & bolts, foundation as required & supply of cement, civil work materials and etc. Shall be done by the contractor for commissioning. Only 230VAC supply shall be arranged by the railway in nearby relay room. The complete electric lifting barrier set shall confirm to RDSO SPEC NO. RDSO/SPN/208/2012 Ver. 2.0 Amdt. 1or latest amendment. along with Spares & tool kit mentioned in RDSO Spec. SPN/208/2012 clause 10.1 & 10.2 as below - Following spares shall be supplied along with each set (02 nos.) of Electric lifting barrier as per requirement of the purchaser i) Octagonal boom - 1 no. complete. ii) Belt - 1 no. iii) Crank handle - 1 no. iv) Motor Contactor - 1 no. v) Motor protection MCB- 1 no. vi) Push button complete- 2 nos vii) Limit switch - 3 nos. (1 lever type and 2 top roller type) viii) Fuses used - 2 sets - Tool kit consisting of standard sizes of wrench / spanner and Allen keys should also be supplied with each set (02 nos.) of Electric Lifting barrier.								
10	090102	1.00	Set	47832.04	47832.04	AT Par	47832.04		
	Description:- Installation, wiring, testing and commissioning of electrically operated lifting barrier, complete with Casting of cement concrete foundation (including supply of sand, stone, cement, bolt, plate etc.) for pedestal and boom rest post, cabling, power supply connection & wiring with complete outdoor work as per approved drawing, wiring etc.								
11	081302	1.00	Numbers	3748.13	3748.13	AT Par	3748.13		
	Description:- Excavation, ramming, Casting Cement Concrete foundation for Position Light Shunt Signal Post in the ratio of 1:3:6 Aggregate not exceeding 3 : 8 cm, as per Drawing of CSTE/NFR and technical specifications using standard size galvanized Anchor bolts & nuts (also referred to as foundation bolts) conforming to IRS Drg. No. SA- 116A/M, for erection of colour light signal post, plastering with 1 : 4 cement - sand mixture all the surfaces up to 75 mm below ground level, complete with contractor's material including cement, sand, aggregate, anchor bolts and nuts and curing of casted foundation, refilling & ramming of loose soil around foundation and disposal of loose dugged soil from site.								
12	081301	5.00	Numbers	8065.00	40325.00	AT Par	40325.00		
	Description:- Excavation, ramming, Casting Cement Concrete foundation for Colour Light Main Signal Post in the ratio of 1:3:6 Aggregate not exceeding 3 : 8 cm, as per Drawing of CSTE/NFR and technical specifications using standard size galvanized Anchor bolts & nuts (also referred to as foundation bolts) conforming to IRS Drg. No. SA- 116A/M, for erection of colour light signal post, plastering with 1 : 4 cement - sand mixture all the surfaces up to 75 mm below ground level, complete with contractor's material including cement, sand, aggregate, anchor bolts and nuts and curing of casted foundation, refilling & ramming of loose soil around foundation and disposal of loose dugged soil from site.								
13	Please see Item Breakup for details.				97907.99	AT Par	97907.99		
	Description:- (SOR Item No 080800)Assembling, erection, installation, taking of cable inside unit through post, termination and wiring of CLS complete with all accessories of CLS unit, post, base, ladder, ladder guards, platform and MS supporting bracket in the middle of the ladder, hoods, pinacles, offset brackets, Junction/stencil type route indicators (if any) - 1 way to 6 way, etc. including fixing & wiring of LED units lamps with contractor's wiring material as per RE requirement.								
14	80302	1.00	Numbers	15950.00	15950.00	AT Par	15950.00		
	Description:- Supply of color light signal post 4.6 mtrs. and ladder 4.5 mtrs. with bases for ladder and post as per RDSO SPEC. NO. IRS-S-6-81 and DRG. NO. SA-23153/ADV/AIT-1. All drawing should be as per latest. Note: - this includes signal post, base, ladder, ladder base, platform, rail guard & blanking off. Materials to be procured from approved list of firms for manufacturer & supply of mechanical signalling items.								
15	80303	2.00	Numbers	15727.00	31454.00	AT Par	31454.00		
	Description:- Supply of color light signal post 3.6 mtr and ladder 3.5 mtr with bases for ladder & post as per RDSO SPEC. NO. IRS: S-6-81 (or latest) and DRG. NO. SA-23150 (ADV), ALT-1 (OR LATEST). CLS base as per DRG. NO. S-2011/M (OR LATEST). Note: - this includes signal post, base, ladder, ladder base, platform, rail guard & blanking off. Materials to be procured only from RDSO approved list of firms for manufacture & supply of mechanical signalling items.								
16	80304	1.00	Numbers	16486.04	16486.04	AT Par	16486.04		
	Description:- Shunt signal post (Position light type) as per IRS 56/81, complete with bracket, Post as per IRS-S-6 of 1981 having 4.5mm thickness & minimum 1m length, surface base, etc.								
17	Please see Item Breakup for details.				212852.97	AT Par	212852.97		

17	**Description:-** (SOR Item No 80400)Supply of Colout Light Signal Unit complete, FRP TYPE to Drg. no. IRS:S-26/64 ver.1.0 or latest, SA 23003 A/M (Adv.) or latest without CLS transformers, lenses, lamps, lamp holders.							
18	Please see Item Breakup for details.				76339.88	AT Par	76339.88	
	Description:- (SOR Item No 80600)Supply of FRP Shunt Signal unit without lenses, lamps or LEDs as per RDSO drg No. SA - 23840 (Adv.)							
19	080901	4.00	Numbers	3502.00	14008.00	AT Par	14008.00	
	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area.							
20	081101	30.00	Numbers	550.00	16500.00	AT Par	16500.00	
	Description:- Fabrication, supply and fixing of P, C, A, G, R, AG etc. marker disk painted and lettered with enameled paint of approved colours, on signals, conforming to RDSO Drg. No.SA - 23456, as per standard practice and technical specifications, with contractor's complete material including fixing clamps.							
21	081102	30.00	Numbers	373.00	11190.00	AT Par	11190.00	
	Description:- Supply, Fabrication and Fixing of Retro reflective Signal Number Plate of standard size and drawing as per SEM, high intensity prismatic (hip) grade retro reflective sheet (TYPE -IV) including fixing arrangement for fixing them on existing posts as per standard practice.							
22	110801	12.00	Numbers	2782.00	33384.00	AT Par	33384.00	
	Description:- Alteration/modification in the existing location boxes (Full size), fixing of equipment's, cable insertion, termination, wiring, testing & commissioning, two coat painting, lettering to suit the circuits as per approved wiring diagrams. This includes filling with sand and plastering the same.							
23	110802	1.00	Numbers	1607.00	1607.00	AT Par	1607.00	
	Description:- Alteration/modification in the existing location boxes (Half size), fixing of equipment's, cable insertion, termination, wiring, testing & commissioning, two coat painting, lettering to suit the circuits as per approved wiring diagrams. This includes filling with sand and plastering the same.							
24	110701	10.00	Job	7968.94	79689.40	AT Par	79689.40	
	Description:- Taking all types of cables inside LC Gate hut, location boxes and junction boxes etc. and sealing of cable entry pit etc. as per Technical specifications, complete with contractor's material.							
25	110901	5.00	Numbers	651.00	3255.00	AT Par	3255.00	
	Description:- Dismantling of location box / RCC Goomty including all its accessories & concrete foundation.							
26	121501	15.00	Numbers	362.00	5430.00	AT Par	5430.00	
	Description:- Transferring of Signaling/Telecom cables from existing Location box to New Location box. The work includes breaking/ Dismantling of Existing foundation of locations, excavating and removing / segregating coils of 2C/6C/12C/19C/24C/30C/Quad cables which may be about 10 mtrs. in length. These cables are to be disconnected and removed from the existing location one by one as per the instruction and under the supervision of Railway staff present at site. The cable is then to be inserted and terminated in new location box. The item includes neatly dressing of cable, making wiring tree etc. The material required to dressing /lacing will be arranged by contactor. The work is required to be done systematically and with due precaution during the block or disconnection within the time that may be allowed. The excavation work to be done carefully without damaging the cable to avoid undue failure. (Termination charges will be given separately). Note: Proportionate payment will be made if cable of other length. One No unit = One cable of 10 m length).							
27	110101	4.00	Numbers	18529.96	74119.84	AT Par	74119.84	
	Description:- Supply of full-size apparatus case (Large) (as per DRAWING NO. RDSO/S-11500 or latest). This includes supply of location box with 'E' type lock & key, fitted on location door on both side, E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500.							
28	110102	8.00	Numbers	8752.94	70023.52	AT Par	70023.52	
	Description:- Casting, concreting and curing of concrete foundation ((in ratio 1:3:6), erection and installation of full-size apparatus case with 'E' type lock on CC foundation. This includes cost of all materials required for fixing holding down bolts, casting, concreting. Note: - bolts, nuts and washers, bitumen compound to be supplied by contractor and bitumen compound to be used in between apparatus case and foundation as per site engineer. This also includes bottom of apparatus cases filled with sand and the outside covered with masonry work and neat cement plastering. Note: - Location boxes to painted with anti- corrosive paints as per IS: - 9862-1981, one and half feet from the bottom, on all surfaces-both inside and outside.							
	110103	8.00	Numbers	4830.00	38640.00	AT Par	38640.00	

29	**Description:-** Fixing by slotted angle, wiring of terminal strips, hylam strip, relays, fuses with base, fixing of hard wood shelves for full size apparatus case with termination & Earthing of cables and wiring with lettering as required including supply of slotted angles, wires, ferrules for marking and miscellaneous materials per location to be supplied by contractor. (all materials except relay, terminal strips, Bakelite strip, fuses with base and hard wood shelves to be supplied by the contractor). Wires to be used for this purpose should be procured from RDSO'S approved firm and to be inspected by RDSO. [Quantity of wires to be specified by contractor]. NB- power cable to be terminated with proper lugs and required buss bar and other terminals to be supplied by the contractor.							
30	110201	10.00	Numbers	10899.76	108997.60	AT Par	108997.60	
	Description:- Supply of half size apparatus case. This includes supply of location box with 'E' type lock & key, fitted on location door on both side, E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377.							
31	110202	10.00	Numbers	5703.46	57034.60	AT Par	57034.60	
	Description:- Casting, concreting and curing of concrete foundation (in ratio 1:3:6), erection and installation of half size apparatus case (with 'E' type lock on CC foundation. This includes cost of all materials required for fixing holding down bolts, casting, concreting. Note: - bolts, nuts and washers, bitumen compound to be supplied by contractor and bitumen compound to be used in between apparatus case and foundation as per site engineer. This also includes bottom of apparatus cases filled with sand and the outside covered with masonry work and neat cement plastering. Note: - Location boxes to painted with anti-corrosive paints as per IS: - 9862-1981, one and half feet from the bottom, on all surfaces-both inside and outside.							
32	110203	10.00	Numbers	3536.00	35360.00	AT Par	35360.00	
	Description:- Fixing, wiring of terminal strips, hylam strip, relays, fuses with base and supply and fixing of shelves for half apparatus case with termination earthing of cables and wiring with lettering as required including supply of slotted angles, wires, ferrules for marking and miscellaneous materials per location to be supplied by contractor. (all materials except relay, terminal strips, Bakelite strip, fuses with base and hard wood shelves to be supplied by the contractor). Wires to be used for this purpose should be procured from RDSO'sapproved firm and to be inspected by RDSO. [quantity of wires to be specified by contractor]. NB- power cable to be terminated with proper lugs and required buss bar and other terminals to be supplied by the contractor.							
33	Please see Item Breakup for details.				59006.29	AT Par	59006.29	
	Description:- (SOR Item No 110300)Supply & fixing of Hylam sheet 10mm thick of various size of minimum grade P2/P3 on apparatuscase/Location boxes for wiring of signaling circuit and cable termination, fixing on suitable size contractors angle with string rod for supporting cable on back side including fixing of all types of terminal /fuse as per location diagram plan and technical specification with drilling of holes on either side of terminals /fusesand other places as required forcable conductor/wires entry and fixing of sheets.							
34	070101	5.00	Numbers	4894.00	24470.00	AT Par	24470.00	
	Description:- Supply of Track feed Battery Charger as per RDSO Specn. No.IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery.							
35	070103	50.00	Numbers	171.00	8550.00	AT Par	8550.00	
	Description:- Supply of Adjustable Track Feed Resistance 0-30 Ohms (Disc Type) as per RDSO Drg. No.SA-20161- 66/M or latest.							
36	070201	20.00	Numbers	5053.92	101078.40	AT Par	101078.40	
	Description:- Supply of B Type Choke as per RDSO Specn. No.IRS: S-65/83 (Amdt. 3) or latest.							
37	070301	80.00	Numbers	11131.48	890518.40	AT Par	890518.40	
	Description:- Supply of Automatic change oversystem of Track Feed battery Charger model No. BE-TFBC or similar.							
38	070401	50.00	Numbers	3564.00	178200.00	AT Par	178200.00	
	Description:- Supply of Track Lead Junction Box (TLJB) made from FRP material including brass bolts and hylum board sheet with terminals etc. The technical specifications are as follows:(a) TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (vertically two for each FRP angle) HDPE pipe , cable etc.(b) Each TLJB shall have two Bakelite terminal block fitted horizontally : each Bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long. Along with each TLJB , nickel chrome plated brass links(two nos.0f adequate strength for vertical linking of the terminals to be supplied.(c) HDPE pipe of size 32/35mm , 380 mm long along with two nuts for fixing on the TLJB hole .(d) The FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using alvanized nuts and bolts. The TLJB and the angles for stump should come along with holes on them for fixing using galvanized nuts and bolts of adequate strength to be supplied along with TLJB.							
39	070402	80.00	Numbers	1316.00	105280.00	AT Par	105280.00	

	Description:- Erection, Fitting and Rail connection of Track Lead Junction Box on two supports (FRP stumps) with contractor's fixing material. This will include drilling of holes for track lead/side connections on rail. The work shall be done as per instructions of Rly engineer at site.							
40	071701	500.00	Metre	207.05	103525.00	AT Par	103525.00	
	Description:- Insulated cable for TLJB application made of copper alloy material, tin plated, non-corrosive size 3/16"with sheath as per specification No. IRS:S-103/2004 or latest.							
41	071501	1200.00	Numbers	79.00	94800.00	AT Par	94800.00	
	Description:- Supply & installation of polymer positive temperature coefficient device (PPTC) resettable fuses, for outdoor circuits. 30V/2.5A for track feed and 60V/1.1A in place of 24V/2A fuse and 120V/1.1A for signal lighting. Make- RAYCHEM, BOURNS, LITTLE FUSE, FUZETEC or TYCO or similar. Quantity as per site engineer. Note- PPTC fuses are to be connected with crimped ring type lugs.".							
42	070801	200.00	Numbers	179.91	35982.00	AT Par	35982.00	
	Description:- Provision/Installation of bonding with GI wire 4mm dia (8 SWG) for track jumper & fish plate joints bonds. This will include drilling of 7.0/7.1/7.2 mm dia. holes in rails (4 Nos.) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly. Engineer at site.							
43	Please see Item Breakup for details.				1092296.00	AT Par	1092296.00	
	Description:- (SOR Item No 50600)Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 Version 1.0 or latest with inter cell connectors, nuts and bolts etc., with hard rubber container,with washer, micro porous vent-cum- sealed float guide etc.							
44	Please see Item Breakup for details.				132620.00	AT Par	132620.00	
	Description:- (SOR Item No 50700)Charging of lead acid cell (Secondary cell) of various capacities as per Manufacturer's/Railway engineer's instruction. Acid and distilled water to be supplied by the contractor. Specific gravity acid should be approved type duly inspected by consignee. This includes installation and commissioning of battery in circuit. Battery to be kept on wooden rack.							
45	110601	60.00	Metre	356.67	21400.20	AT Par	21400.20	
	Description:- Supply and installations of wooden plank of size 305 mm (width) x approximately 25 mm(thickness), made from Sal/Teak wood or similar good quality commercial hardwood duly painted on all the surfaces, with two coats of acid proof paint for Battery racks in Battery room, at Location huts and locations,complete with contractor's material as per Technical specifications.							
46	071904	10.00	Numbers	2315.60	23156.00	AT Par	23156.00	
	Description:- Drill bit 7/8" or 22 mm make JK or superior (Solid Rail Drill Diameter 7.14 mm • Made using High Quality Ultrafine particle Tungsten Carbide raw material having superior bending strength and impact tenacity • Special cutter edge geometry for steel rail ensures the cutting force is small and cutting Speed is fast, resulting in the cutter regaining good strength & sharpness during drilling. Suitable for Model: RATILER Make Broach cutter HSN code84672100)							
47	071903	6.00	Numbers	2293.78	13762.68	AT Par	13762.68	
	Description:- Drill bit 14mm make JK or superior (Made using High Quality Ultrafine particle Tungsten Carbide raw material having superior bending strength and impact tenacity • Special cutter edge geometry for steel rail ensures the cutting force is small and cutting Speed is fast, resulting in the cutter regaining good strength & sharpness during drilling. Suitable for Model: RATILER Make Broach cutter HSN code84672100)							
48	071902	30.00	Numbers	126.14	3784.20	AT Par	3784.20	
	Description:- Drill twist bit 9/32'' make JK or superior							
49	071201	3.00	Numbers	6029.00	18087.00	AT Par	18087.00	
	Description:- Supply of hand operated track drilling machine for bonding hole.							
50	071801	500.00	Kg	94.60	47300.00	AT Par	47300.00	
	Description:- GI wire 8 SWG soft (4 mmdia) as per IS-279/72 or latest amendment suitable for track circuit rail bonding							
51	070601	2500.00	Numbers	4.00	10000.00	AT Par	10000.00	
	Description:- Supply of Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm dia bonding wire as per spec No IRS S 17 Amdt. 1 & RDSO Drg No. S-69/M.							
52	130901	100.00	Numbers	571.00	57100.00	AT Par	57100.00	
	Description:- Provision of cement concrete enclosure for earth electrodes as per NFR standard practice. This includes supply of all materials by the contractor duly inspected by consignee.							
53	110501	40.00	Numbers	2342.09	93683.60	AT Par	93683.60	
	Description:- Supply of Earth electrode for outdoor equipment having G.I. pipe one end spike and other end having a lug for connecting the earth lead wire / MS flat for earthing including M10 steel screw and nut, consisting of 2.5 meter perforated G.I pipe medium grade having internal dia of above 38mm GI pipe shall consist of spike at one end and a lug at the other for connecting the earth lead wire.							

54	110502	40.00	Numbers	3565.59	142623.60	AT Par	142623.60	
	Description:- Installation of Earth Electrode including supply of MS flat (with peripheral earthing of apparatus case) for signalling Equipments as apparatus cases, signal,relay rack etc.							
55	60101	4.00	Numbers	131165.00	524660.00	AT Par	524660.00	
	Description:- Supply of Electric Point Machine IRS type 220 mm throw, high thrust (AC immunity 160VDC) rotary locking type, Non-Trailable to operate on 110V DC, complete with lock and detector slide, cable termination box and clamp lock & Ground connection as per specification No. IRS: S-24/2025 Rev.3.0 or latest and assembly Drg No.RDSO-S-11000 and RDSOS-3395A or latest with Clamp Point Lock 60 Kgs TWS, switch Extension Bracket (P-bracket)/Insulation Plate R.H/Insulation Plate L.H,IRS Pt. M/C-Detector rod (long & short). Lock rod (long & short), Drop Lugas, special MS Plate per drg No. RDSO/S-3454 ALT A ver.1 or latest (suitable for 220 mm throw IRS Point machine) for 60 Kg rail, THICK WEB SWITCH. LATEST ALTERATIONS IF ANY ARE APPLICABLE TO BOTH DRAWINGS.							
56	060102	5.00	Numbers	22565.62	112828.10	AT Par	112828.10	
	Description:- Installation, wiring and associated work such as drilling of switch, installation & adjustment of ground machine of 110DC 220 mm throw IRS clamp type point machine for 60 Kg thick web switch with removal of existing Point machine as per standard practice & approved drawing and direction of supervisor incharge. It includes supply and fixing of bend pipe for taking tail cables inside point machine. All the required consumable stores viz lugs of suitable sizes, nuts & bolts, washer etc. for completion of the entire work should be supplied by the contractor.							
57	060104	20.00	Numbers	11550.14	231002.80	AT Par	231002.80	
	Description:- Installation, wiring and associated work such as drilling of switch, installation & adjustment of ground machine of 110V DC 143 mm throw point machine with removal of existing Point machine as per standard practice and direction of supervisor incharge. It include supply and fixing of bend pipe for taking tail cables inside point machine. All the required consumable stores viz lugs of suitable sizes, nuts & bolts, washer etc. for completion of the entire work should be supplied by the contractor.							
58	60401	800.00	Set	1232.00	985600.00	AT Par	985600.00	
	Description:- Point insulation Complete set as per RDSO/SPN/168/2005 Rev.2, with amdt. up to date if any for1.Switch bracket 'D' and 'L' bracket insulation for IRS point machine - One set comprises of (a)Side plate LH to Drg.No.S-3266 - 1 No. (b)Side plate RH to Drg.No.S-3265 - 1 No. (c)Insulating bush to Drg.No.S-3199 - 4 Nos. (d) Insulating washer to Drg.No.S-8640 - 4 Nos., 2. Split-Stretcher bar 2.1 Insulation for Leading stretcher bars (BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leading insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 - 6 Nos. 2.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No. T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No. T-10368 - 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No. T10371 - 12 Nos& 3. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as per RDSO drg.No.T-10371 - 6 Nos.							
59	120103	60.00	Metre	404.00	24240.00	AT Par	24240.00	
	Description:- Supply of Medium class GI pipes 50 mm dia (3.6 mm thickness) as per IS 1239 (Part 1): 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes supply of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe will be provided by contractor to protect cables from sharp edges and sudden bends.							
60	120102	60.00	Metre	648.60	38916.00	AT Par	38916.00	
	Description:- Supply of Medium class GI pipes 80 mm dia (4 mm thickness) as per IS 1239 (Part 1): 2004 or Latest with socket & coupling on culverts bridges or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends.							
61	120104	120.00	Metre	364.84	43780.80	AT Par	43780.80	
	Description:- Laying & Fixing of Medium class GI pipes 50/80/100 mm dia as per IS 1239 (Part 1): 2004 with socket & coupling, nuts, bolts, MS angle, MS Flat etc. on culverts bridges or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/corrugated HDPE pipe at the end of GI pipe along with any masonry work as required to protect the cables from sharp edges and sudden bends.							
	120301	12000.00	Metre	72.49	869880.00	AT Par	869880.00	

62	**Description:-** Excavation of trenches in all types of soils including soft rock as per including cutting and clearing of bushes and roots of trees etc., upto a depth of 1.2 Mtrs and width of 0.3 Mtrs at the bottom in the entire section, back filling and ramming of the soil in trenches to original level. The work shall be executed as per technical specification. NOTE: Proportionate payment against the work executed by the contractor will be arranged where digging of trench upto 1.2 mtr depth is not possible due to water seepage inside the trench, this has to be confirmed by the railway representative present at site and should be recorded in the field book							
63	120303	100.00	Metre	993.08	99308.00	AT Par	99308.00	
	Description:- All works of Excavation of cable trench 1.0 M deep , 0.3 mtr wide on pucca platform/Pucca Road and placing of GI pipe, and restoration of the platform /Road surface to the original condition after cable laying and refilling the trench. Necessary materials e.g. GI pipe, cement, sand, stonechips, mortar have to be supplied by the contractor.The work should be done as per specification. NOTE: Proportionate payment against the work executed by the contractor will be arranged where digging of trench upto 1.0 mtr depth is not possible due to water seepage inside the trench, this has to be confirmed by the railway representative present at site and should be recorded in the field book							
64	120302	2000.00	Metre	589.21	1178420.00	AT Par	1178420.00	
	Description:- Digging of 1.0 Meter deep and 0.3 Meter wide trenches In hard soils including hard rock and Soil mixed with ballast/Stone/Bricks, including clearing of roots of trees and bushes and temporary obstruction on the selected route back filling and ramming of the soil in trenches to original level., as per technical specifications and cable route plan. Note: In case where digging of trench up to 1.0 Meter depth and 0.3 meter wide is not possible or bigger size trench is required to lay more cables or loose soil/ muck is encountered, the depth can be reduced / increased as per directions of the Engineer-in-charge of the works, the payment will be decreased/increased proportionate to the depth & width of excavation compared to 1.0 Meter deep and 0.3 Meter wide.							
65	120304	100.00	Metre	430.13	43013.00	AT Par	43013.00	
	Description:- Excavation of trench to a depth of 1 Mtr. for track crossing of cables, laying of DWC/ RCC pipes with collar/coupling, refilling of trench by ramming and consolidating it as per the instructions of Railway representative at site. During excavation of trench it has to be ensured that the excavated soil does not mix with the ballast available. The depth of 1m trench shall be from the bottom of sleepers for track crossings. Laying of cables is not included in this schedule. (Supply of DWC/RCC pipes with couplers/ collars is not included in this schedule).							
66	120305	200.00	Metre	359.10	71820.00	AT Par	71820.00	
	Description:- Manual boring at depth of 1.0 M deep across the track/pucca road as per as per decision of Engineer in charge.							
67	Please see Item Breakup for details.				778781.00	AT Par	778781.00	
	Description:- (SOR Item No 120400)Transportation of HDD machine with accessories including handling of stores materials, supply of HDPE/DWC pipe of various sizes as per instruction of Engineer in Charge, preparation of site ,entry and exit pit (1mX1mX1m) and boring for placing of HDPE Silicore duct/DWC of various dia size as per instruction of site engineer for 6Quad Cable/OFC cable/other cables for crossing Track/PuccaRoad/Congested area. Boring trench shall be minimum 3 (three) meter below the river bed/Track and 1(one) meter below the road/pucca road crossing area.Track/Road includes supply of accessories for pulling HDPE pipe. All other petty materials with earthwork, jointing of duct is to be done by Contractor.							
68	120801	60.00	cum	3596.00	215760.00	AT Par	215760.00	
	Description:- Cement concrete work for miscellaneous items in the ratio 1: 3: 6. Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor). Wherever depth of 0.5 m cable trench is not feasible, cable shall be protected as: - Preparation of cement mixture 1:3:6 with contractor's own materials and spreading cement concrete mixture layer of 100 mm thick over the already laid cables in the excavated trench.							
69	120203	100.00	Metre	238.34	23834.00	AT Par	23834.00	
	Description:- Supply of HDPE DWC pipe of size 90/76 mm dia nominal - as per RDSO Specification No.RDSO/SPN/204/2011 version 1.1 Amd. 1 or latest TEC specification No. with Anti Rodent and Anti-flammable property - along with socket, coupler etc. - as per technical specification and as approved by Engineer-in-charge							
70	120204	50.00	Metre	604.86	30243.00	AT Par	30243.00	
	Description:- Supply of HDPE DWC pipe of size 180/152mm dia nominal - as per RDSO Specification No.RDSO/SPN/204/2011 version 1.1 Amd. 1 or latest TEC specification No. with Anti Rodent and Anti-flammable property - along with socket, coupler etc. - as per technical specification and as approved by Engineer-in-charge							
71	120501	18000.00	Metre	7.62	137160.00	AT Par	137160.00	
	Description:- Laying of underground signalling/ power/telecom cables of various sizes in trench, at bridges in pipes, in road crossing, platforms & across the track through GI/DWC/HDPE pipe as per technical specifications.							
	120601	100.00	Metre	250.20	25020.00	AT Par	25020.00	

72	**Description:-** Protection work of cable over boulder pitched / high cutting area, culvert, in yard, rocky,congested / residential area using HDPE pipe and covering it making continuous square block of 1:2:3 massionary work as per site condition.Minimum 10 cm layer of concrete to be made and then covered with soil. Minimum depth of concreted portion to be maintained at 500 mm from ground level. All required materials i.e. HDPE pipe,cement, sand, aggregate, etc.will be supplied by the contractor.							
73	120502	80.00	MT	590.12	47209.60	AT Par	47209.60	
	Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.The work is to be done as per the instructions of Railway Representative at site. Consignee will also provide gate pass / road permit to the transporter.							
74	120503	24000.00	MT-Km	5.35	128400.00	AT Par	128400.00	
	Description:- Extra for each additional 1 Km or part thereof.							
75	090103	120.00	Square Foot	310.50	37260.00	AT Par	37260.00	
	Description:- Supply of High intensity grade retro-reflective sheet as per railway specification IS:736 (Color Yellow/RED)							
76	150501	12.00	Station	36944.91	443338.92	AT Par	443338.92	
	Description:- Complete painting and varnishing work at a station (3/4 Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc.This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and painting of distances of S&T gears (Singals, Location boxes, point machines etc.) form the railway lines as per SOD and as per instruction of Site Engineer. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides.							
77	150502	5.00	Station	50626.69	253133.45	AT Par	253133.45	
	Description:- Complete painting and varnishing work at a station (5/6 or more Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and the painting of distances of S&T gears (Singals, Location boxes etc.) form the railway lines as per SOD and as per instruction of Site Engineer. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides.							
78	150603	12.00	Numbers	3041.45	36497.40	AT Par	36497.40	
	Description:- Complete Painting & Lettering of power operated Electric lifting barriers (ELB)includes Operating console, Aluminum Lifting barriers of 24 fit long, 2 pedestal driving & driven mechanism, 2 Electric motors , 2 stop boards, 2 Nos Boom light, 2 Nos of Boom rest & Boom locking arrangements etc.(All Items at one LC gate to be taken as one LOT) .Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways.This also includes numbering of signalling gears and painting the distance of singalling gears from the railway lines. NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).							
79	150601	14.00	LC Gate	31917.58	446846.12	AT Par	446846.12	
	Description:- Complete painting, varnishing, lettering, numbering of all gears at Engineering Interlocked LC Gate as per SEM and instruction of Railway Engineer at site with contractor's own primer, paints, varnish etc. This includes painting of LC Gate signal posts and fittings, apparatus cases, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. This also includes the painting of distances of S&T gears (Singals, Location boxes etc.) form the railway lines as per SOD and as per instruction of Site Engineer. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme.							
	Please see Item Breakup for details.				56187.80	AT Par	56187.80	

80	**Description:-** (SOR Item No 150700)Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways. This also includes numbering of signalling gears (Signal posts, Apparatus cases, TLJB, Point Machines, etc. and painting the distance of singalling gears from the railway lines. NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).							
81	150901	10.00	Numbers	1262.63	12626.30	AT Par	12626.30	
	Description:- Painting of existing boards like LEGEND boards, warning boards, STOP boards etc., as per standard practice and as per the instructions of Railway representative at site. (Supply of boards is not included in this schedule).[Paint and all other miscellaneous materials required for the work shall be supplied by the Contractor].							
82	Please see Item Breakup for details.				5766.44	AT Par	5766.44	
	Description:- (SOR Item No 151300)Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make.							
83	30302	20.00	Numbers	3815.00	76300.00	AT Par	76300.00	
	Description:- Q-Series Track Relay (QTA2 Type), AC immunized, 9 Ohms, 2F/1B along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS:939A & 966(Appendix F2) and RDSO Spec No. IRS:S@45"44@ S-23 with amdt. upto date as applicable or latest with latest amdt. or latest. The interlocking code for this unit shall be "FGHKX".							
84	30303	10.00	Numbers	6554.00	65540.00	AT Par	65540.00	
	Description:- Track Relay QBAT, AC immunized, 2F-2B contacts, 9 ohms. Complete with plug board, retaining clip & connectors as per RDSO/SPN/84 Ver 2.0 Amdt. 1 or latest. The interlocking code for this unit shall be "ABEJX".							
85	30401	20.00	Numbers	5230.00	104600.00	AT Par	104600.00	
	Description:- Q-Series Neutral Line Relay (QSPA1 Type), 24V DC,8F/4B along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-933A and RDSO Specn.No.IRS:S@45"44@ S-23 & S 60 with amdt. up to date as applicable or latest. The interlocking code for this unit shall be "ABDEJ".							
86	30405	5.00	Numbers	5718.00	28590.00	AT Par	28590.00	
	Description:- Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B,24V DC complete with plug board (base plate), connectors and retaining clips and conforming to BRS-935A and RDSO Specn.No.IRS: S-34 & S-23with Amdt. upto date as applicable or latest. The interlocking code for this unit shall be "ABDEG".							
87	30402	5.00	Numbers	6842.00	34210.00	AT Par	34210.00	
	Description:- Contactor Unit (QBCA1 Type), 24 V DC, 2F(HD)/4B or 2F(HD)2F-4B complete with plug board (base plate), connectors, retaining clips etc. and conforming to BRS- 943 and RDSO Specn.No.IRS:S-34 & S-23 with amdt. upto date as applicable or latest. The interlocking code for this unit shall be "BCEJK" or "DEHJX".							
88	30206	10.00	Numbers	3845.00	38450.00	AT Par	38450.00	
	Description:- Q-Series Line Relay (QNA1 Type), AC immunized, 8F/8B, 24 V DC along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-931A and RDSO Specn.No.IRS:S@45"44@ S-23 and S-60 or latest. The interlocking code for this unit shall be "ABDGH".							
89	30207	10.00	Numbers	4007.00	40070.00	AT Par	40070.00	
	Description:- Q-Series Line Relay (QNA1 Type), AC immunized, 12F/4B, 24 V DC along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-931A and RDSO Specn.No.IRS:S@45"44@ S-23 and S-60 with amdt. upto date as applicable or latest. The interlocking code for this unit shall be "ABDFH".							
90	30104	5.00	Numbers	5240.00	26200.00	AT Par	26200.00	
	Description:- Fail safe electronic flasher device as per RDSO Specn. No.RDSO/SPN/173/2002 Amdt.2 or latest.60 flashes per minute workable on 24V DC as per TS.							
91	30403	4.00	Numbers	4912.00	19648.00	AT Par	19648.00	
	Description:- Q-Series LED ECR (Universal Type i.e. QECX), 4F/4B complete with plug board (base plate), connectors, retaining clips etc. and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002, Amdt. -1 and RDSO Specn.No.IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. The interlocking code for this unit shall be "ABDHK".							
92	030601	8.00	Kg	168.09	1344.72	AT Par	1344.72	
	Description:- Sealing wire used for sealing of signalling relays & equipment.							
93	040602	30.00	Numbers	119.07	3572.10	AT Par	3572.10	
	Description:- Supply of Non detoriating type low voltage cartridge electric fuse 2/4Amps with cyndrical head end cap as per Spec NoIRS/S/78/92 with latest amendments.							

94	040603	30.00	Numbers	271.54	8146.20	AT Par	8146.20	
	Description:- Supply of Non detoriating type low voltage cartridge electric fuse 6/10Amps with cyndrical head end cap as per Spec NoIRS/S/78/92 with latest amendments.							
95	040604	30.00	Numbers	265.43	7962.90	AT Par	7962.90	
	Description:- Supply of Non detoriating type low voltage cartridge electric fuse 16/20Amps with cyndrical head end cap as per Spec NoIRS/S/78/92 with latest amendments .							
96	100107	20.00	Numbers	2131.00	42620.00	AT Par	42620.00	
	Description:- Supply of Counter Block for control cum indication panel. Make- Deltron/Ultra/ Similar.							
97	Please see Item Breakup for details.				3188.84	AT Par	3188.84	
	Description:- (SOR Item No 52100)Copper lug heavy duty Dowell's make or similar.							
98	030602	10.00	Numbers	1053.00	10530.00	AT Par	10530.00	
	Description:- Supply of seal plier as per sample got approved from site engineer in-charge.							
99	130501	2.00	Numbers	44064.00	88128.00	AT Par	88128.00	
	Description:- Supply of Digital Multimeter of Fluke 287 Industrial or Similar/ superior True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 second. Item to be supplied after successful demonstration and Approval of Railway.							
100	130502	2.00	Numbers	28752.00	57504.00	AT Par	57504.00	
	Description:- Supply of Professional AC/DC clamp meter 3 ¾ digit, true RMS measurement, For Measurement of DC/AC currents up to 1000A, Voltage up to 600V, resistance up to 40 M and frequency up to 1 MHz with set of leads & carrying case. Model - DCM 39A or equivalent/ higher make Motwane / Stanlay or similar /Fluke/Megger. Item to be supplied after successful demonstration and Approval of Railway.							
101	130506	2.00	Numbers	28516.78	57033.56	AT Par	57033.56	
	Description:- Supply of Digital Insulation Tester. Model- MIRT61 or similar. Make: MOTWANE or superior.							
102	130509	2.00	Numbers	18834.80	37669.60	AT Par	37669.60	
	Description:- Supply of Earth Resistance Tester. Model: Motwane 0-2000 DET-20 or similar. MAKE:Motwane/Metravi/Kusam/Meco. Refer technical specification.							
103	071901	1.00	Numbers	274975.28	274975.28	AT Par	274975.28	
	Description:- Supply of Light weight Rail Drilling machine suitable for 52/60 kg Rail & compatible for Rail Drilling7.1 mm to 32 mm diameter all types of holes Model: RATILER Make Broach cutter HSN code84672100 with accessories Tungsten Carbide Tipped Annular cutter (Core drill Bit/Rail Drill Bit) 22 mm 26.6 mm & 28.5mm code 211122211126.5.211128.5 piolt Pin size 7.96mmx108mm code 170010. Specially designed unique stock rail plate code B180-1164 or similar.							
104	130503	2.00	Numbers	94960.00	189920.00	AT Par	189920.00	
	Description:- Supply of Handheld Digital Earth Clamp Tester for clamp on earth/ground resistance measurement up to 1000 ohms. Accuracy 0.1 - 0.99 : 1%, 1 - 49 : 1.5% Also measure current leakage up to 20A. No spines required for measurement Model - DECT-2 or equivalent / higher version make Motwane/Stanlay/Fluke/Megger or similar. Item to be supplied after successful demonstration and Approval of Railway.							
105	100301	30.00	Numbers	5176.00	155280.00	AT Par	155280.00	
	Description:- Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30) ° to (50)° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B - Non SOR Items: Supply & Execution							3459927.05	
1	1	2.00	Numbers	49666.20	99332.40	AT Par	99332.40	
	Description:- Power Pack for Rly Motorised Gate (ELB) input 110V AC/DC, Output 24V DC/22A Model: GALLANT-PS 3222 or similar.							
2	2	20.00	Numbers	360.52	7210.40	AT Par	7210.40	
	Description:- Selector Switch Auto/Manual 3 way suitable for ELB as per RDSO/SPN/208/2012 (Ver.2) or latest. (Suitable for ELB of Make- Global, AEW or Pragati etc as per requirement)							
3	3	150.00	Numbers	318.01	47701.50	AT Par	47701.50	
	Description:- LED indicator different colour for ELB Panel as per RDSO specification No. RDSO/SPN/208/2012 (Ver.2) or latest.							
4	4	2.00	Numbers	916.98	1833.96	AT Par	1833.96	
	Description:- LED Type Boom Light with MS Box frame, protective mesh & Acrylic Round Lens for Boom of ELB as per RDSO specification No. RDSO/SPN/208/2012 (Ver.2) or latest.							
	5	5.00	Numbers	2346.34	11731.70	AT Par	11731.70	

5	**Description:-** Concrete foundtion for pedestal of lifting barrier as per tech specs. (All required masonry materials including grouting Bolts & Nuts are to be supplied by the contractor)							
6	6	5.00	Numbers	726.24	3631.20	AT Par	3631.20	
	Description:- Concrete foundation for gate barrier rest post with grouting bolt as per tech specn. (All required masonry materials to be arranged by the contractor with grouting bolt).							
7	7	25.00	Numbers	372.19	9304.75	AT Par	9304.75	
	Description:- Welding of Gate boom, roddings etc and its reinstallation as per technical specifications.(Each joint = Numbers)							
8	8	1.00	Numbers	11597.43	11597.43	AT Par	11597.43	
	Description:- Rotary switch 100A/250-440 V AC/DC 4 Position, 4 Way 2 Pole NO OFF, Make Kaycee, Model C1025D or latest.							
9	9	15.00	Numbers	1462.04	21930.60	AT Par	21930.60	
	Description:- Rotary cam switch 63A rated capacity suitable for 250VAC , Type N4Y29B/YR or similar of Kaycee make.							
10	10	8.00	Numbers	10385.66	83085.28	AT Par	83085.28	
	Description:- 105 Ah, 12V Battery EXIDE GENPLUS MODEL:EXIDE GP115E41L or similar							
11	11	3.00	Numbers	3107.23	9321.69	AT Par	9321.69	
	Description:- Supply of SMPS based battery charger, 12 Volt suitable for charging above battery for DG Sets.							
12	12	8.00	Numbers	762.17	6097.36	AT Par	6097.36	
	Description:- FRP Type Hood for main Colour Light signal units as per RDSO spec No RDSO/SPN /194/2006 & RDSO/SPN/151/1997							
13	13	20.00	Numbers	848.49	16969.80	AT Par	16969.80	
	Description:- FRP type Hood for Route indicator as per RDSO Spec No. RDSO/SPN/194/2006 & RDSO/SPN/151/1997							
14	14	20.00	Numbers	503.22	10064.40	AT Par	10064.40	
	Description:- FRP type Hood for Shunt Signal unit as per RDSO Spec No. RDSO/SPN/194/2006 & RDSO/SPN/151/1997							
15	15	100.00	Numbers	200.00	20000.00	AT Par	20000.00	
	Description:- Installation of Signal number Plates with supply of Clamp, nut bolts & other required material as per Technical Specification.							
16	16	15.00	Numbers	7000.00	105000.00	AT Par	105000.00	
	Description:- Installation of Goods Warning Board/ Calling On legend board or other similar board with supply of MS angle frame with fixing clamps, post & other required materilas. Making foundation, complete with contractor' material, as per Technical specifications.							
17	17	40.00	Numbers	837.99	33519.60	AT Par	33519.60	
	Description:- Strengthening of foundation of signals, Full/Half location boxes, by carrying out earth work around the foundation, ramming of refilled earth, carrying out masonry work from bottom of earth work using country stones & cement masonry to prevent the earth from slipping down the bank. This also includs supply of required masonry materials.							
18	18	200.00	Numbers	255.66	51132.00	AT Par	51132.00	
	Description:- Supply of Hydrometer Thimson or similar superior quality.							
19	19	3.00	Numbers	688.88	2066.64	AT Par	2066.64	
	Description:- Pilot Pin - Diameter 6.35mm X Length 77mm Necessary for locating centre punch, opening flow of coolant and ejecting the slug after the drilling is completed							
20	20	500.00	Metre	134.77	67385.00	AT Par	67385.00	
	Description:- Supply of MS Flat of size 35 mm x 6mm for perimetric earthing location box or other purposes as per TS.							
21	21	50.00	Numbers	536.28	26814.00	AT Par	26814.00	
	Description:- Exothermic welding in relay room ,IPS or any indoor room as per RDSO's TAN No. STS/E/TAN/3006 ver 3.1 or latest as per TS.							
22	22	50.00	Numbers	446.90	22345.00	AT Par	22345.00	
	Description:- Exothermic welding for any outdoor Work for earth connection as per as per RDSO's TAN No. STS/E/ TAN/3006 ver 3.1 or latest as per TS.							
23	23	3.00	Set	174663.00	523989.00	AT Par	523989.00	
	Description:- Supply of Electric point machine IRS Clamp type 220mm Stroke IP-65 Type, high thrust (with 400V AC immunised IP-67 motor) rotary locking type. Non trailable to operate on 110v DC, Complete with lock and detector slide, cable terminal box and clamp lock & ground connection as per specification no IRS: S: 24-2025 Version 3.0 or latest with External clamp point lock 60 kgs TWS, as per drg no. RDSO S-3454 or latest and with insulation sets and nuts , bolts (Suitable for 220 mm throw IRS point machine) using 60 kg rail.							

24	24	3.00	Numbers	37446.00	112338.00	AT Par	112338.00	
	Description:- VDU Panel for Electronic Interlocking (EI) System must be of size 43 inch LED colour monitor suitable for industrial Grade Embedded PC for Electronic Interlocking System having VGA/DVI, HDMI & USB port for display and connecting cable having minimum length 1 meter length for all ports. Make- Samsung /Sony /LG or similar. -It should be possible to work on the VDU 24 hrs x 7 days, declaration shall be given by bidder for the offered model. MAKE/BRAND= AS PER TENDER SPECIFICATION							
25	25	4.00	Numbers	2035.50	8142.00	AT Par	8142.00	
	Description:- O/E/N 4R-3-24V Relay (LFR Relay with Base)compatible with existing UFSBI System ofDELTRON Make. Accepted Make/Brand:-DELTRON Make.							
26	26	10.00	Numbers	843.11	8431.10	AT Par	8431.10	
	Description:- SM's Key for Domino Panel as per TS							
27	27	3.00	Numbers	843.11	2529.33	AT Par	2529.33	
	Description:- RRBU key for Domino Panel as per TS							
28	28	70.00	Numbers	174.61	12222.70	AT Par	12222.70	
	Description:- Signal Button Domino Panel as per TS							
29	29	8.00	Numbers	174.61	1396.88	AT Par	1396.88	
	Description:- Point Button Domino Panel as per TS							
30	30	8.00	Numbers	174.61	1396.88	AT Par	1396.88	
	Description:- Calling-on Button Domino Panel as per TS							
31	31	10.00	Numbers	174.61	1746.10	AT Par	1746.10	
	Description:- Shunt Signal Button Domino Panel as per TS							
32	32	30.00	Numbers	174.61	5238.30	AT Par	5238.30	
	Description:- Route button for Domino Panel as per TS							
33	33	20.00	Numbers	29.18	583.60	AT Par	583.60	
	Description:- LED Bulb of RED, GREEN, YELLOW colour compatible with Deltron make Domino Panel working on 24V DC as per TS. (RED-100, GREEN-25, YELLOW-100)							
34	Please see Item Breakup for details.				101155.20	AT Par	101155.20	
	Description:- Preparation and Supply of Signal Gear Maintenance Record Book as under as per TS							
35	35	100.00	Numbers	3.65	365.00	AT Par	365.00	
	Description:- Supply of Emery paper No.00							
36	36	20.00	Kg	120.45	2409.00	AT Par	2409.00	
	Description:- Supply of Petrolium Jelly							
37	37	50.00	Kg	27.33	1366.50	AT Par	1366.50	
	Description:- Supply of Grease cup for general purpose							
38	38	100.00	Numbers	2.63	263.00	AT Par	263.00	
	Description:- Supply of Dowells insulated FORK TYPE terminal 4.6 sq mm, CAT No. RSI 7930.							
39	39	100.00	Numbers	14.23	1423.00	AT Par	1423.00	
	Description:- Supply of Dowells copper tube terminal heavy duty (BS-4579) 25 sq mm, CAT No. CUS-552.							
40	40	100.00	Numbers	19.47	1947.00	AT Par	1947.00	
	Description:- Supply of Dowells copper tube terminal heavy duty (BS-4579) 35 sq mm, CAT No. CUS-554.							
41	41	4.00	Set	59215.81	236863.24	AT Par	236863.24	
	Description:- Supply of equipment's assisted to work under 25kV RE area. All Insulated tools should be suitable to work in 25kV RE area, tested to 10,000 VAC and rated for 1,000 VAC when working on live parts and should comply NFPA-70E/ ATSM F1505 -01/IEC: 60900-2004 Standard or similar/lates as per technical specifications.							
42	42	1.00	Numbers	79832.40	79832.40	AT Par	79832.40	
	Description:- Cordless hammer 18V hand Drill machine with battery Li-on 5AH capacity with brushed motor having drilling capacity 20mm in wood and 13 mm in metal. Model GBH 18V-EC or similar.							
43	43	2.00	Numbers	8600.00	17200.00	AT Par	17200.00	
	Description:- Supply of portable welding machine. Model VERX-250 or similar as per TS							
44	44	1.00	Numbers	73000.00	73000.00	AT Par	73000.00	
	Description:- HONDA EU 30is 3000 VA Portable Inverter Generator(Self Start). Engine type - Honda GX200T/OHV Single cylinder. Rated power output(VA)- 2800 VA, Fuel Tank capacity - 12.50 Ltrs. Continuous Operating Time -(HRS) - 6.9 Hrs. Dry Weight - 62 Kg. (Dry Weight shouldn't exceed 62KG). Make - Honda, Yamaha, Sri Ram Greaves.							

45	45	60.00	Numbers	1069.00	64140.00	AT Par	64140.00	
	Description:- Refilling fire extinguisher DCP/CO2 of 4.5KG capacity with new gas and chemical complete in all respect as per TS.							
46	46	2.00	Numbers	3399.00	6798.00	AT Par	6798.00	
	Description:- Vacuum cleaner for cleaning Relay room, equipment room etc.							
47	47	4.00	Numbers	11499.00	45996.00	AT Par	45996.00	
	Description:- Laser printer for LRS datalogger for printing failures report for analysis as per TS.							
48	48	1.00	Numbers	5364.00	5364.00	AT Par	5364.00	
	Description:- Laser distance measurer (0.05 to 100 Mtr) for measuring distance during various survey/ inspection of works as per TS. Make/ Model- MECO/ LDM100+ or similar.							
49	49	1.00	Numbers	42188.55	42188.55	AT Par	42188.55	
	Description:- Ferrule & label printing machine for S &T wiring installation in relay room, location box, point jb, TLJB, etc as per TS.							
50	50	2.00	Numbers	14558.88	29117.76	AT Par	29117.76	
	Description:- Aluminium Foldable Multipurpose Ladders for Maintenace of Signalling Equipments height 12 foot, as per TS							
51	51	30.00	Numbers	942.43	28272.90	AT Par	28272.90	
	Description:- Rechargeable LED Torch Cum Lantern as per TS							
52	52	30.00	Numbers	1099.00	32970.00	AT Par	32970.00	
	Description:- Rechargeable LED type Head Lamp with belt/ Headband, Lithium Ion Battery, Charger & other accessories. Designed with an ergonomic, adjustable headband. It shoud be of required watt for clear visibility in Night. More details in TS.							
53	53	4.00	Numbers	26255.00	105020.00	AT Par	105020.00	
	Description:- Supply of CCC card (Control Communication Card) Compatible with existing UFSBI System. Make/Brand: Deltron							
54	54	5.00	Numbers	31270.00	156350.00	AT Par	156350.00	
	Description:- CPU CARD COMPATIBLE TO WORK WITH EXISTING UFSBI AS PER SPECIFICATION NO. IRS:S- 105/2012 VER.0.OR LATEST. MAKE/BRAND:- DELTRON OR SIMILAR. Accepted Make/Brand:- DELTRON							
55	55	5.00	Numbers	29264.00	146320.00	AT Par	146320.00	
	Description:- Supply of Output card compatible with existing UFSBI system Deltron make as per RDSO specification No. IRS : S-105/2012 ver 0 Make Brand DELTRON MAKE							
56	56	5.00	Numbers	13758.80	68794.00	AT Par	68794.00	
	Description:- Input Card Compatible with existing UFSBI System as per RDSO Specification No.IRS: S: 105/2012 (Version.0), Make Deltron Equipments & System (P) Ltd. Make Brand - DELTRON MAKE							
57	57	38.00	Numbers	1770.00	67260.00	AT Par	67260.00	
	Description:- Link status indication card compatible with existing UFSBI system Make Deltron Equipment and systems Pvt Ltd.							
58	58	38.00	Numbers	1770.00	67260.00	AT Par	67260.00	
	Description:- Buzzer PCB/card compatible with existing UFSBI system Make Deltron Equipment and systems Pvt Ltd.							
59	59	600.00	Numbers	23.60	14160.00	AT Par	14160.00	
	Description:- LED suitable to work with block panel of DELTRON make UFSBI (Colour RED, YELLOW, GREEN as per requirement)							
60	60	5.00	Numbers	979.03	4895.15	AT Par	4895.15	
	Description:- Supply of Key Switch with 1 NO + 1NC or 2 NO Config. Of ESBEE make, suitable to work with BlockPanel of Deltron make as per RDSO Spec.No.IRS-S-105/2012 VER.0 or latest.							
61	61	5.00	Numbers	39530.00	197650.00	AT Par	197650.00	
	Description:- Signal Conditioner Card No. 1 (SSC 1) for SSDAC (CEL Make). As per RDSO Spec. No. RDSO/SPN/177/2012 Ver 3 or latest. Make/Brand : Central Electronics Limited. Accepted Make : Central Electronics Limited							
62	62	5.00	Numbers	39530.00	197650.00	AT Par	197650.00	
	Description:- Signal Conditioning Card No. 2 (SCC 2) for SSDAC Make - CEL, as per RDSO Spec. No. RDSO/SPN/177/2012 Ver 3 or latest. Make: Central Electronics Limited Accepted Make : Central Electronics Limited							
63	63	5.00	Numbers	57230.00	286150.00	AT Par	286150.00	
	Description:- Reset Box for HASSDAC compatible for CEL make HASSDAC as per RDSO Spn.RDSO/SPN/177/2012 ver 3.0 or latest.							
64	64	5.00	Numbers	6331.55	31657.75	AT Par	31657.75	
64								

	Description:- Supply of Deflectors (One Gunny Bag) Suitable for GGTRONICS make HASSDAC as per RDSO Spec No. RDSO/SPN/177/2012 (Ver3) or latest

3. ITEM BREAKUP

Schedule	Schedule A-SOR Items: Supply & Execution					
Item- 13	(SOR Item No 080800)Assembling, erection, installation, taking of cable inside unit through post, termination and wiring of CLS complete with all accessories of CLS unit, post, base, ladder, ladder guards, platform and MS supporting bracket in the middle of the ladder, hoods, pinacles, offset brackets, Junction/stencil type route indicators (if any) - 1 way to 6 way, etc. including fixing & wiring of LED units lamps with contractor's wiring material as per RE requirement.					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	080801	2 Aspect CLS Unit	Numbers	3.00	8994.77	26984.31
2	080802	3 Aspect CLS Unit	Numbers	2.00	9259.29	18518.58
3	080803	4 aspect CLS Unit	Numbers	1.00	8857.64	8857.64
4	080804	1/2/3/4 Aspect CLS with1/2/3/4 way junction route indicator	Numbers	2.00	11887.20	23774.40
5	080805	Independent Shunt Signal CLS Unit	Numbers	2.00	3395.50	6791.00
6	080806	Dependent Shunt Signal CLS Unit	Numbers	2.00	2639.18	5278.36
7	080807	Calling On/AG-Sign/A-Sign/Guard Repeater Signal Unit	Numbers	2.00	3851.85	7703.70
					Total	**97907.99**
Item- 17	(SOR Item No 80400)Supply of Colout Light Signal Unit complete, FRP TYPE to Drg. no. IRS:S-26/64 ver.1.0 or latest, SA 23003 A/M (Adv.) or latest without CLS transformers, lenses, lamps, lamp holders.					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	80401	2 Aspect	Numbers	3.00	32873.16	98619.48
2	80402	3 Aspect	Numbers	3.00	38077.83	114233.49
					Total	**212852.97**
Item- 18	(SOR Item No 80600)Supply of FRP Shunt Signal unit without lenses, lamps or LEDs as per RDSO drg No. SA - 23840 (Adv.)					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	80601	Dependent Shunt Signal Unit.	Numbers	2.00	9963.22	19926.44
2	80602	Independent Shunt Signal Unit.	Numbers	3.00	18804.48	56413.44
					Total	**76339.88**
Item- 33	(SOR Item No 110300)Supply & fixing of Hylam sheet 10mm thick of various size of minimum grade P2/P3 on apparatuscase/Location boxes for wiring of signaling circuit and cable termination, fixing on suitable size contractors angle with string rod for supporting cable on back side including fixing of all types of terminal /fuse as per location diagram plan and technical specification with drilling of holes on either side of terminals /fusesand other places as required forcable conductor/wires entry and fixing of sheets.					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	110301	Size of 860 mm X 140 mm	Numbers	12.00	3184.87	38218.44
2	110302	Size of 1.22m x 1.22m	Numbers	5.00	4157.57	20787.85
					Total	**59006.29**
Item- 43	(SOR Item No 50600)Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 Version 1.0 or latest with inter cell connectors, nuts and bolts etc., with hard rubber container,with washer, micro porous vent-cum-sealed float guide etc.					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	50602	2V, 80AH	Numbers	200.00	3342.88	668576.00
2	50605	2V, 300AH	Numbers	60.00	7062.00	423720.00
					Total	**1092296.00**
Item- 44	(SOR Item No 50700)Charging of lead acid cell (Secondary cell) of various capacities as per Manufacturer's/Railway engineer's instruction. Acid and distilled water to be supplied by the contractor. Specific gravity acid should be approved type duly inspected by consignee. This includes installation and commissioning of battery in circuit. Battery to be kept on wooden rack.					

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	50702	2V 80AH	Numbers	200.00	367.00	73400.00
2	50705	2V 300AH	Numbers	60.00	987.00	59220.00
					Total	**132620.00**
Item- 67	(SOR Item No 120400)Transportation of HDD machine with accessories including handling of stores materials, supply of HDPE/DWC pipe of various sizes as per instruction of Engineer in Charge, preparation of site ,entry and exit pit (1mX1mX1m) and boring for placing of HDPE Silicore duct/DWC of various dia size as per instruction of site engineer for 6Quad Cable/OFC cable/other cables for crossing Track/PuccaRoad/Congested area. Boring trench shall be minimum 3 (three) meter below the river bed/Track and 1(one) meter below the road/pucca road crossing area.Track/Road includes supply of accessories for pulling HDPE pipe. All other petty materials with earthwork, jointing of duct is to be done by Contractor.					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	120401	110 mm dia boring	Metre	500.00	1261.76	630880.00
2	120402	160 mm dia boring	Metre	100.00	1479.01	147901.00
					Total	**778781.00**
Item- 80	(SOR Item No 150700)Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways. This also includes numbering of signalling gears (Signal posts, Apparatus cases, TLJB, Point Machines, etc. and painting the distance of singalling gears from the railway lines. NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	150701	Apparatus Case Full Size. (Outside & inside).	Numbers	50.00	260.00	13000.00
2	150702	Apparatus Case Half Size. (Outside & inside)	Numbers	2.00	236.00	472.00
3	150704	Main Signal Post with Signal Units, Surface base and complete fittings as per NFR standard practice.	Numbers	50.00	524.33	26216.50
4	150705	Shunt signal post with signal unit, surface base as per NFR Standard Practice.	Numbers	10.00	267.53	2675.30
5	150706	Track Lead Junction Box. (Black enamel outside only)	Numbers	100.00	56.66	5666.00
6	150707	Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red Oxide)	Numbers	50.00	163.16	8158.00
					Total	**56187.80**
Item- 82	(SOR Item No 151300)Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make.					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	151301	Full Apparatus Case.	Numbers	50.00	112.25	5612.50
2	151302	Half Apparatus Case	Numbers	2.00	76.97	153.94
					Total	**5766.44**
Item- 97	(SOR Item No 52100)Copper lug heavy duty Dowell's make or similar.					
S No.	**Item No**	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
1	52103	Size 10 sq mm	Numbers	30.00	12.14	364.20
2	52104	Size 16 sq mm	Numbers	182.00	15.52	2824.64
					Total	**3188.84**
Schedule	Schedule B-Non SOR Items: Supply & Execution					
Item- 34	Preparation and Supply of Signal Gear Maintenance Record Book as under as per TS					

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Point Maintenance Record Book	Numbers	200.00	63.95	12790.00
2	2	Track Circuit Test Record Book	Numbers	100.00	248.21	24821.00
3	3	Point Machine history Record Book	Numbers	100.00	122.01	12201.00
4	4	IPS Battery Record Book	Numbers	30.00	185.11	5553.30
5	5	Cable Meggering Record Book	Numbers	30.00	311.33	9339.90
6	6	Printing, Binding & Supply of DC/RC book (Disconnection/Reconnection book). Each book consists of 100 pages with letter in black ink having Green and Red Strip in 85 GSM paper and size A-4 preferrably to be printed in A4 size photostate paper of Century make or Similar as per TS	Numbers	100.00	86.12	8612.00
7	7	Design & supply of joint inspection register for point & crossing and track circuit and Signal Failure Register as per TS.	Numbers	50.00	556.76	27838.00
					Total	**101155.20**

4. ELIGIBILITY CONDITIONS

Standard Financial Criteria

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

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Any kind of Signaling works of indoor or outdoor with supply of signaling materials.	No	No	Not Allowed

1.2	Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.	No	No	Allowed (Optional)

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.

S.No.	Description
1	**Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.** Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. **(Click here** to download the Format of Self Certification)

5. COMPLIANCE

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)
2	GST Registration details should be attached	No	Yes	Allowed (Optional)
2.1	Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt & as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.	No	Yes	Not Allowed
2.2	The successful tenderer who is liable to be registered under GST/IGST/ UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/ UTGST/ SGST Act to railway immediately after the award of contract, without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority.	No	Yes	Not Allowed
2.3	In case the successful tenderer is not liable to be registered under GST/IGST/UTGST/ SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.	No	Yes	Not Allowed

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Every tenderer shall state in the tender his postal address fully and clearly. Any communication sent in time to the tenderer by post at the said address shall be deemed to have reached the tender duly and in time. Important documents shall be sent by Registered post.	No	No	Not Allowed
2	The provision of Construction and Demolition Waste Management Rule 2016 issued by Ministry of Environment Forest and Climate Change dated 29.03.2016 and published in the Gazette of India, Part - II, Section -3, Subsection (ii) are binding upon the Contractor. Contractor shall implement these provisions at worksites, for which no extra payment will be payable.	No	No	Not Allowed
3	Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer	No	No	Not Allowed
4	The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the railway there under.	No	No	Not Allowed
5	The following documents should be submitted by the tenderer on issue of LOA and before signing Contract Agreement:-.	No	No	Not Allowed
5.1	The documents pertaining to Deployment of Qualified Engineers at Work Sites by the Contractor.	No	No	Not Allowed
5.2	EPF & ESI Registration certificate should be submitted before signing of Contract Agreement.	No	No	Not Allowed

6	Price variation clause (PVC) shall be applicable only in tender having advertised value above Rs. 2 crore provided further that, in a tender document PVC is applicable.	No	No	Not Allowed
7	All the Terms and Conditions in this contract is as per Indian Railways Standard General Conditions of Contract updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents	No	No	Not Allowed
8	If the tenderer(s) expire(s) after the submission of his / their tender or after the acceptance of his / their offer, the Railway shall deem such tender cancelled. If a partner of a firm expires after the submission of their tender or after the acceptance of their tender, the Railway shall deem such tender as cancelled, unless the firm retains its character.	No	No	Not Allowed
9	Contractor is to abide by the provisions of Payment of Wages act & Minimum Wages act in terms of clause 54 and 55 of Indian Railways General Condition of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailways. gov. in'. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The Registration / updation of Portal shall be done as under:-	No	No	Not Allowed
9.1	Contractor shall apply for onetime registration of his company/firm etc. in the Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration in the portal within 7 days of receipt of such request.	No	No	Not Allowed
9.2	Contractor once approved by any Engineer, can create password with login ID(PAN No.) for subsequent use of portal for all Letter of Acceptances (LoAs) issued in his favour.	No	No	Not Allowed
9.3	The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LoAs) / Contract Agreements on shramikkalyan portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request.	No	No	Not Allowed
9.4	After approval of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalyan portal on monthly basis.	No	No	Not Allowed
9.5	It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period.	No	No	Not Allowed
9.6	While processing payment of any 'On Account Bill' or 'Final Bill' or release of 'Advances' or 'Performance Guarantee / Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that "I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at 'www.shramikkalyan. indianrailways.gov.in' till Month, Year."	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document attached.	No	No	Not Allowed
2	Non-compliance of any of the condition stipulated in NIT is liable to result in the tender being rejected.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading

1	You are hereby advised to read carefully Standard General Condition of Contract- April'2022 entire document and submit your bid along with Annexure -I duly filled and upload. Non Submission of above by the bidder shall result in summarily rejection of his/their bid.	No	Yes	Allowed (Mandatory)
2	Tenderer shall submit his contact number and EMAIL id with this tender.	No	No	Allowed (Optional)
3	Certificates and testimonials regarding contracting experience for the type of job for which tender is invited with list of works carried out in the past.	No	No	Allowed (Optional)
4	The list of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.	No	No	Allowed (Mandatory)
5	For all the tenders having advertised cost of Rs.10 lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement. This option of taking payment through LC arrangement has to be exercised in IREPS on which tenders are called by Railways by the Tenderer at the time of bidding itself, and the Tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.The option so exercised, shall be an integral part of the bidder's offer.The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.	Yes	Yes	Allowed (Optional)
6	The tenderers shall submit a certificate stating that all their statements/ documents submitted along with bid are true and factual. The certificate in standard format of Annexure-V shall be submitted online as available on IREPS or as a PDF attachment as per formate enclosed in the Tender document. Nonsubmission of the above certificate by the bidder, either as a PDF attachment or online, shall result in the summary rejection of his/their bid.	No	Yes	Allowed (Optional)
7	Mandate form for ECS/NEFT payment is uploaded in document Section of this NIT. This should be filled and submitted, duly certified by the Bank, along with the bid.	Yes	Yes	Allowed (Optional)
8	PAN Card details should be attached.	No	No	Allowed (Mandatory)
9	The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / HUF etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be. Non Submission of above by the bidder shall result in summarily rejection of his/their bid.	Yes	Yes	Allowed (Mandatory)
9.1	The detailed documents as stated in GCC-April 2022 vide Part 1 clause 14 (ii) shall be submitted by the tenderer as the case may be. Non Submission of above by the bidder shall result in summarily rejection of his/their bid.	Yes	Yes	Allowed (Mandatory)
10	The tenderer whether sole proprietor / a company or a partnership firm / joint venture (JV) /registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected.	No	Yes	Allowed (Optional)

11	As per clause 16 (a),(b),(c) of Part-I of GCC April' 2022. A certificate should be submitted by the tenderer regarding Employment / Partnership etc. of Retired Railway Employees. If information as required as per 16.a), b), c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of Standard General Condition of contract.	No	No	Allowed (Optional)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	WHEREAS the President of India acting through the Senior Divisional Signal and Telecomm. Engineer, Lumding Division, Northeast Frontier Railway and his authorised officers has invited e-tenders for the above-mentioned work vide tender notice mentioned in the NIT (Notice Inviting Tender) published in the website.	No	No	Not Allowed
2	AND WHEREAS I/We, have read the above NIT (Notice Inviting Tender for e-tender)and the Tender Document attached with the Tender, have carefully read and understood the same, have visited the site and have satisfied myself/ourselves as to the nature of the work and site conditions before filling this e-tender.	No	No	Not Allowed
3	AND WHEREAS my/our address for all communications hereinafter shall be considered as official and shall be made in the address, email Id and Mobile phone and other phone nos. given in the portal of IREPS while registering as tenderer for e-tender. In case of any change in this, concerned officer of railway will be informed.	No	No	Not Allowed
4	AND WHEREAS I/We hereby sign this e-tender document digitally by virtue of the legal authorities vested with me/us to enter into commitment on behalf of the tenderer, documentary support whereof is enclosed herewith.	No	No	Not Allowed
5	AND WHEREAS I/We have read and understood this NIT and Tender Document attached to the Tender and agree to abide by the various terms and conditions contained therein. I/We also agree to keep the offer open for acceptance for a period of 65 days from the date fixed for opening of the same and in default hereof, I/We will be liable for forfeiture of my/our earnest money.	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	DETAILED TECHNICAL SPECIFICATIONS as per Tender Document attached.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TenderDocumentSNT-46-LMG-2026-27BGMPLMG.pdf	Tender Document
2	Acceptanceofe-BankGuaranteee-BGinWorksContracts.pdf	Acceptance of e Bank Guarantee

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: BALVEER

Designation : DSTELMG