



इरकॉन इन्टरनेशनल लिमिटेड
(भारत सरकार का उपक्रम, रेल मंत्रालय)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking, Ministry of Railways)

**ANNUAL PROCUREMENT PLAN
AND
NODAL OFFICERS
FOR MSEs
FINANCIAL YEAR 2021-22**

IRCON INTERNATIONAL LIMITED

C-4, District Center, Saket, New Delhi- 110 017 (India)

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CIN: L45203DL1976G0I008171

ANNUAL PROCUREMENT PLAN FOR FY 2021-22

Total annual procurement target of goods and services by IRCON during the Fin. Yr. 2021-22 is likely to be Rs. 230 Crore.

IRCON has planned to conduct one number of National Level Vendor Development Programme at its Corporate Office in New Delhi in association with MSMEDI, Okhla, New Delhi, NSIC-New Delhi, NSSH-New Delhi, SIDBI-New Delhi and DICCI to bring awareness amongst its employees and prospective MSEs Vendors for effective implementation of the Policy.

IRCON is making all out efforts to encourage participation of MSE Vendors/Class-I Local Vendor and achieve the procurement targets in terms of Public Procurement Policy, Order 2012 and amendments thereon. IRCON uses Central Public Procurement Portal (CPPP) and Government e-Market (GeM) Portal for its procurement, which provides facilitation of registration of MSEs firms registered with any statutory bodies specified by Ministry of MSME and participation in e-tender by availing the benefits of exemption from payment of the cost of tender fee and Earnest Money. All tenders valuing up to INR 200 Crore are invited using national competitive bidding only in compliance to Make in India Order 2017

List of Nodal Officers for project/units of IRCON

Sl. No.	Project/Units of IRCON	Nodal Officer
1.	Corporate Office, New Delhi	
	Implementation of Public Procurement Policy for MSEs in IRCON and co-ordination with Ministry of MSME in this regard Procurement from MSE (SC/ST MSEs in particular) and co-ordination with Ministry of MSME in this regard	Dr. Subhash Chand Executive Director (Elect.), Ircon international Limited, C-4, District Centre, Saket, New Delhi - 110 017 Contact No.011-29565645, 26545503 EmailID: subhash.chand@ircon.org
	Regarding delayed payment to MSEs and co-ordination in this regard	Sh. Surajit Dutta Chief General Manager (Fin.) Ircon international Limited, C-4, District Centre, Saket, New Delhi - 110 017 Contact No.011-29565645, 26545503 EmailID: surajit.dutta@ircon.org
2.	Patna, Bihar	Sh. Pramod Kumar Singh Executive Director/Patna 1st Floor , Sone Bhawan, Daroga Prasad Rai Path, Patna-800001 Ph. 0612-2507777, 2506446, 9771465005 Email: pk Singh@ircon.org
3.	Chhattisgarh Projects	Sh. D. K. Sharma Chief General Manager/Civil/CGRLP 2nd Floor, Rama Port, Vyapar Vihar Road, Bilaspur, Chhattisgarh 495001 Email id: dk.sharma@ircon.org 7225019446

4.	ERO-Kolkata	Sh. A.K. SINHA General Manager/ERO/IRCON Metro Railway, Service Building (4 th Floor), 56. C.R. Avenue, Kolkata-700012 Contact No. 919163345000 EmailID: ak.sinha@ircon.org , ro.kolkata@ircon.org
5.	DFCCII, CTP-12, Mumbai	Sh. Ramgopal Project Director/DFC Ircon International Limited Plot no. 1/7/2, Vaishnav Nagri, Nr. Ayappa Temple, Atul- Parnera Road, Parnera, Distt. Valsad, Gujarat. 396001 Ph + 9004380003 Email: ircon.3018@ircon.org , ramgopal@ircon.org
6.	SRO-Bangalore, DHHP	Sh. H.D. Doddaiah Chief General Manager/SRO Ground Floor, DRM Office Building, South Western Railway, Adj. to City Railway Station, Bangaluru-560023 Contact Number: 080-22257215/2237541 Email: doddaiah@ircon.org
7.	USRBL Project, J&K	Sh. Sangrah Maurya Chief General Manager/J&K USBRL Head Office, Satyam Complex, Marble Market, P.O. Sainik Colony, Jammu, J and K- 180011 Ph +91 9596765809 Email: sangrah.maurya@ircon.org
8.	NMDC's Railway Siding Project	Sh. Suresh Matali Addl. General Manager House No.-59, Ashoka Lifestyle, Dharmapura-3, Jagdalpur-494001, Chhattisgarh Ph. 07782-229577, 9109135335 Email: suresh.matali@ircon.org

9.	Katni-Singrauli Doubling Project	Sh. (Dr.) S.K. Sinha Executive Director/Katni Plot No. 75-78, Sector-1, Devprabhakar Nagar, Daddadham, Jhinhari, Katni- Jabalpur Road, Katni (MP) -483501 Ph. 7470793985 Email: sk.sinha@ircon.org
10.	Katni Grade Separator	Sh. Mohan Singh General Manager/Civil M/s. L S Parihar, Plot No. 103, Karmachari Awas Colony, Near Dev Prabhakar Nagar, (Dudda Dham) , Katni Jabalpur Road, Katni-483501 Ph. 9771465009 Email: mohanvatsa@ircon.org
11.	Kiul-Gaya Doubling Project	Sh. Niraj Kumar Chief General Manager/Civil Ist Floor , Sone Bhawan, Daroga Prasad Rai Path, Patna-800001 Ph. 0612-2507777, 2506446, 7463888974 Email: niraj.kumar@ircon.org
12.	Hajipur-Bachwara Doubling Project	Sh. Mahboob Alam Chief General Manager/Civil Ist Floor , Sone Bhawan, Daroga Prasad Rai Path, Patna-800001 Ph. 0612-2507777, 2506446, 9065526680 Email: mahboob.alam@ircon.org
13.	NTPC Darlipali, NMDC, BRPL, Odisha	Sh. B. K. Das Chief General Manager/Civil NPC-Darlipali, NTPC Project, Flat No.-102, Block “A”, Ground Floor, Shanti City Centre Apartments, Behind Big Bazar, Distt.- Jharsnguda-768201, Odisha Ph. 7328820790 Email: bkdas@ircon.org
14.	RAPDRP-Meerut	Sh. S. C. Negi General Manager / Elect. Plot No. 267/1, 2 nd Floor, Mangal Pandey Nagar, Meerut-250004 (UP) Ph. 9596758572 Email: sonamnegi@ircon.org

15.	Shivpuri Guna Highway Project	Sh. Masood Ahmad Nazar, General Manager/Civil Village: Bamaur, KM 276, Tehsheel-Badarwas, Distt. Shivpuri (MP)-473885 Ph. 9560595062 Email: Masood.ahmad@ircon.org
16.	Sivok-Rangpo Project	Sh. Narendra Singh Negi Chief General Manager/Civil SIVOK-RANGPO NEW B.G. RAIL LINE PROJECT "SUKRITI", Satyajeet Roy Sarani, Jyoti Nagar, P.O. Sevoke Road, Siliguri- 734001, Dist. Darjeeling (W.B.) Ph. 9002543522, 03532541011 Email: nsnegi@ircon.org
17.	New Mokama Bridge (RDUM-TAL-RJO)	Sh. D.B. Bhuvan Kumar General Manager/Civil Ist Floor , Sone Bhawan, Daroga Prasad Rai Path, Patna-800001 Ph. 0612-2507777, 2506446, 919771404753 Email: bhuvan.kumar@ircon.org
18.	Northern Region	Sh. Neeraj Verma General Manager/Civil B-40A, Sector-1, Noida-201301, 9560595073 Email: neeraj.verma@ircon.org
19.	Rail Coal Connectivity Project, Jharkhand	Sh. R. K. Mishra General Manager/Civil 296/1, Ashok Nagar, Ranchi, Jharkhand Ph. 9065515600 Email: rkmishra@ircon.org
20.	Jayanagar-Bardibas Rail Line Project	Sh. Ravi Sahay General Manager/Civil Ist Floor, Railway Station Building Jayanagar, Distt. Madhubani-847226 (Bihar) Ph. 9771465101, 06246222101 Email: Ravi.sahay@ircon.org

21.	Jogbani-Biratnagar Rail Line Project	Sh. Deepak Kumar Addl. General Manager/Civil Samta Bhawan Road, Ist Floor of New SBI Building, Forbesganj-854318 (Bihar) Ph. 9771465200 Email: deepak@ircon.org
22.	ROB-RAJASTHAN & ROB-GUJARAT	Sh. Sunil Singh General Manager/Civil Plot No. 162, Parvati Marg, Paschim Vihar, Near Kimberlite School, Vaishali Nagar, Jaipur-302021 (Rajasthan) Ph. 9001890243 Email: sunilsingh@ircon.org
23.	Nabinagar, Super Thermal Power Project	Sh. Akhilesh Chandra Yadav Joint General Manager/Civil NSTP, NPGC Limited, Near Shivanpur Gate, Via-Nabi Nagar Road, PO-Ankora Railway Station, Distt. Aurangabad -824303 (Bihar) Ph. 09065655500 Email: acyadav@ircon.org
24.	NTPC Darlipali	Sh. Hussain T.M., Addl. General Manager/Civil NTPC Darlipali Project, Flat No. 102, Block "A", Ground Floor, Shanti City Center Apartments, Behind Big Bazar, Distt. Jharsuguda-768201, Odisha Ph. 9004348348 Email: hussain@ircon.org
25.	Vadodra – Kim Expressway Project	Sh. Raj Kumar, Chief General Manager/Civil A-86, Sai Sarjan, Sunpharma Road, Atladara, Vadodara-390012 (Gujrat) Ph. 8009187823 Email: ksahay@ircon.org

26.	NCRTC Project	Sh. Surender Yadav Chief General Manager/Electrical C-4, District Center, Saket, New Delhi-110017 Ph. 9560595074, Email: surendra.yadav@ircon.org
27	RE-Works Project	Sh. Vimal Kishor Nagar Chief General Manager/Electrical B-40A, Sector-1, Noida-201301, Ph. 9560595072 Email: vimalk.nagar@ircon.org

Goods and Services likely to be procured: -

Disclaimer: Procurement of goods and services in IRCON is project specific as per client requirement. Items shown in Annual Procurement Plan are tentative based on procurement of the previous year. Vendors may visit tender page of IRCON on website <https://etenders.gov.in/eprocure/app> regularly for actual requirements tendered for.

Sr. No.	Description of Item	Broad Specification Parameters	Qty	Accounting Unit (Nos/ Kilo-meters/ Tonne...)	Estimated Value of Procurement INR (Lacks)
	Civil				
1	Cement	PPC	9349	Tonne	769.53
2	Cement		5000	Metric Ton	350.00
3	Cement	OPC	50000	MT	3,500.00
4	Cement	OPC	58809	Tonne	2,901.00
5	Cement	OPC-43/53	12000	Tonne	1,020.00
6	RAIL 1080 Grade HH Rails EN 60E160KG Mfrom Japan	IRST-12-2009	8893	MT	7500
7	Rail 60kg	F.F	10800	MT	7,372.00
8	Rails				
9	Rails		9000	Metric Ton	5,580.00
10	Rails	60 KG	1360	MT	974.67
11	Rails 60 Kg	-	800	MT	500.33
12	60 Kg rails and fastening (LWR) rails including all fittings (complete track)	60Kg Rail	27.66	60Kg Rail	
13	sleeper	PSC	1,50,000	Nos.	3,460.00
14	Sleeper		65000	Per 1000 nos	2,210.00

15	Sleepers	PSC	28000	No	980.00
16	Special Sleepers	T-4088	5500	No.	275.00
17	PSC Sleepers for Plain Track as per RDSO Drg No T-2496	-	6812	Nos	143.05
18	PSC Sleepers for Plain Track as per RDSO Drg No T-6899	-	532	Nos	13.31
19	PSC T/O Sleepers (1 in 12)	-	4	Set	15.99
20	PSC T/O Sleepers (1 in 8.5)	-	34	Set	93.53
21	MBC Sleepers & Fastening 1660 Sleepers per Km	MBC Sleepers	27.66	MBC Sleepers	
22	Structural steel for Composite Girder and Open Web Girder.	IS:2062, 'B' Grade	22465	MT	16,107.00
23	Structural steel for Girder	IS:2062, 'B0' Grade	5000	MT	2,750.00
24	Structural steel	E 350 BR	3026	Tonne	1,361.70
25	Structural Steel	E350, E250	15000	MT	9,000.00
26	Steel Structure	OHE Structure and Bracket Galvanised Steel Material	415	Metric Ton	340.00
27	Steel Reinforcement	Grade- 500	4575	Tonne	2,384.69
28	Reinforcement Steel	Fe 500D	8000	MT	4,800.00
29	Stainless steel	Grade 304	7.5	Tonne	26.22

30	Steel		850	Metric Ton	510.00
31	Thermo-Mechanically Treated Reinforcement bars	TMT -Fe 500/500D	22402	MT	11,681.00
32	TMT Reinforcement bars	TMT -Fe 500/500D	5000	MT	2,250.00
33	Turnout	1 in 9	4	Number	49.00
34	1 /12 Turn /outs	Turn-out	10	Turn-out	222.00
35	1/ 16 Turn outs	Turn-out	2	Turn-out	60.00
36	Supply of full set of 60Kg 1 in 12 points and crossing as per RDSO Drg No T-4218,4219 & 4220 with curved switches CMS crossing, lead rails with all -fittings and fastenings complete set but excluding PSC Sleepers.	-	4	Set	55.48
37	Supply of full set of 60Kg 1 in 8.5 points and crossing as per RDSO Drg No T-4865,4966&4967 with curved switches CMS crossing, lead rails with all fittings and fastenings. complete set but excluding PSC Sleepers	-	32	Set	322.62
38	Aluminium works	Min Anodic coating AC 15	4830	KG	42.19
39	Axle counter	RDSO specs	10	Numbers	100.00
40	Concrete tiles	Grade M50	9850	SQM	78.80

41	Vitrified tiles	16mm thick	2310	SQM	26.56
42	GI Pipe 100mm Dia		3533	Mtr	37.00
43	PVC Pipe 100mm Dia		7058	Mtr	15.00
44	Glued Joint 60 Kg(T-5843)	-	46	Nos	15.18
45	Granite stone	18mm thick	6500.4	SQM	227.51
46	Coal tar or bitumen confirming to IS 3117 - 1965	IS 3117 - 1965	6071	Lit	25.00
47	Composite supply of thermit portion 60 Kg 90 UTS SKV	-	1324	Nos	62.23
48	Material Trolley	Mechanical Trolley	2	Mechanical Trolley	6.00
49	Motor Trolley	Mechanical Trolley	2	Mechanical Trolley	5.00
50	POT-PTFE Bearing	POT Bearing	524880	MT Bearing Capacity	1,408.00
51	Supply of 12 mm thick grooved rubber pad for ballast-less track in MIA assembly under CI bearing plate laiud with 60 Kg Rail	-	7379	Nos	13.21
	Electrical				
52	HT Cables	6.6KV grade	4690	Mtr	90.15
53	LT Cables	1.1 KV Grade	37000	Mtr	449.14
54	Transformer	6.6/.415 KV, 2000 MVA	2	No	70.99
55	HT Panel	11 KV Cubical Panel	1	No	48.41
56	LT Panel	1.1 KV Panel	7	No	33.01
57	High Mast	20 Mtr long	10	No	51.94

58	Street light Poles	7.5 Mtr long	360	No	63.04
59	Street Light Luminaries	150 Watt Light	403	No	118.84
60	Pit Line Luminaries	100 Watt Light	676	No	207.79
61	UPS	160/200 KVA	6	No	286.75
62	HVAC System Chiller Unit		1	Set	106.02
63	Pump for Fire Fighting System	For 80/ 70 Mtr head	4	No	11.94
64	Elevator	20/26 Passenger	9	No	413.52
65	Escalator	Travel Height of 6.6/6.1Mtr	8	No	470.70
66	Travellator	Travel Height of 6.1/7.0Mtr	16	No	1,147.42
67	GI for Mast/TTC/Portal	OHE Mast/ TTC /Portal	253	Tons	301.13
68	Copper Contact Wire	107 sqmm	23	Tons	194.64
69	Copper Catenary Wire	65 sqmm	13.8	Tons	116.48
70	DG Sets	1500kVA	3	Nos	450.00
71	HT Cables	11kV & 33kV Cables	60	KM	2,500.00
72	Transformers	Power & Distribution Transormers	12	Nos	400.00
73	LT Cables	1.1kV Cables	400	KM	3,000.00
74	Ventilation Fans	Jet & Axial Fans	60	Nos	700.00
75	Switchgears	Panel board	12	Nos	1,500.00
76	Firefighting equipment	Pipes, pumps, etc.	1	LS	800.00

77	SCADA equipment	Hardware & Software	1	LS	1,200.00
78	Copper Conductor	OHE Catenary Contact, Jumper Material	95	Metric Ton	625.00
79	Photocopier machine i/c scanning & printing facility	Canon IRC3020 or equivalent	1	Number	2.75
155	ERC(T-3701) Mk-III protected by anti corrosive paint (Excluding Points and Crossing)	-	31796	Nos	27.03
156	ERC	MK-V	3,00,000	Nos.	270.00
157	Liner	Metal	3,00,000	Nos.	135.00
158	GRSP	10mm Thick	1,50,000	Nos.	117.00
159	SEJ	Imp.SEJ	100	Set	400.00
160	ERC	T-3701(Alt-4)	25000	No.	25.00
161	GRSP	T-3711	12500	No.	6.54
162	Batteries, chargers, Chokes, Resistances	RDSO specs	100	Numbers	50.00
163	Multifunctional Office Printing Machine		1	Nos	2.00
164	ERC(T-3701) Mk-III protected by anti corrosive paint (Excluding Points and Crossing)	-	31796	Nos	27.03
165	Photocopier machine i/c scanning & printing facility	Canon IRC3020 or equivalent	1	Number	2.75
	Signal and Telecommunication				

166	The Proposed Track side element shall be operated from Distributed EI in Four part with new Route Control Chart, Supply of all Indoor materials	RDSO/SPN/192/2005	1	System	499.00
167	Signaling Cables	IRS: S 63/2014 (Rev 4.0)	35	Km	75.00
168	LC Gate	RDSO/SPN/208/2012 Ver.2.0	1	No	6.15
169	MSDAC + Tool Kit	RDSO/SPN/176/2013 (Ver.3)	160	Nos	899.70
170	IRS Type Electric Point M/c	IRS:S 24/2002	54	Nos	56.62
171	IP EPABX system	RDSO inspection	1	No	40.00
172	Digital Phones	Consignee	45	No	4.00
173	Analog Phones	Consignee	150	No	1.00
174	SMPS Based Power Supply	RDSO/SPN/TL/23/99 Ver.4.0 Amdt 1.0	5	Set	4.25
175	SMF VRLS Battery Set rating 24V/200 AH	IRS: S - 93/96 Amdt. 1	5		4.75
176	PDMUX 2MB	IRS: TC-68/2012	4	Nos	7.50
177	OFC Cable	IRS: TC:55/2006 Rev.1 Amd.2	10	Km	10.00
178	(Centralized EI)		2	System	599.15
179	(Distributed EI)		1	System	496.25

180	Supply of portable workstation to run alongwith EI configuration tools, data inputs, simulation and functional testing, diagnostic, trouble-shooting & commissioning of EI System as per Technical Specifications of the tender document.		3	Nos	2.65
181	Supply of powder coated Main Cable Termination rack complete with scaffolding, fixtures & accessories including square bars for mounting 8-way terminal / WAGO make terminal blocks, ladders, string rods, frame, base assembly, insulators, J bolt, nut/bolts & fasteners (Bakelite strips), Rack arrangement etc. as per extant practice on WC Rly for EI. Rack should be made of first class steel powder coated painting and rack manufacturer's certificate should be submitted. All runway for cables / wires shall be provided with PVC sleeve of proper size.		5	Nos.	1.56
182	Supply of Fuse Alarm System as per specn RDSO/SPN/209/2012 Rev 2.0 for IBS		2	Nos.	0.48
183	Supply of Fuse Alarm System as per specn RDSO/SPN/209/2012 Rev 2.0 for Equipment Rooms at Stations		4	No.	3.81

184	Supply of all types of necessary maintainers tool kit and measuring instruments for technicians for testing, maintenance and repair at site as specified by original equipment manufacturer of proposed Electronic interlocking system as per annexure No. 2 attached.		3	Set	1.55
185	Supply of Universal Earth Leakage Detector 12 Channel AC/ DC as per RDSO/SPN/256/2002 or latest amendment.		6	Nos.	7.21
186	Supply of Microprocessor based data logger RTU with 128 Digital & 32 Analog Inputs as per specification no. IRS:S 99/2006 (amdt. 3) with latest amendments. It also includes design, supply and installation of all software required as standard practice of WCR and as per specification no. IRS:S 99/2006 or latest. Digital input to be taken from important interface relays. This also includes all required materila such as supply of Leased line MODEM for networking of Datalogger, power supply of adequate capacity, battery and fault diagnostic software for failure analysis, Door Proximity switches with 2 way rigid connector for wire termination between proximity switches and Datalogger Tag blocks as per specs. Complete Data Logger Module shall be placed in President / Rittel rack of suitable size to be supplied.		2	Nos.	6.30

187	Supply of Microprocessor based data logger with 512 Digital & 48 Analog Inputs as per specification no. IRS:S 99/2006 (amdt. 3) with latest amendments and shall be suitable to work with electronic interlocking system. It includes all interfacing equipments like protocol converter unit etc. It also includes design, supply and installation of all software required as standard practice of WCR and as per specification no. IRS:S 99/2006 or latest. Digital input to be taken from EI through protocol converter and in addition one digital input card to be provided for digital input of important interface relays. This also includes supply of leased line MODEM for networking of Datalogger, power supply of adequate capacity, battery and fault diagnostic software for failure analysis, Door Proximity switches (4-no.) with 2 way rigid connector for wire termination between proximity switches and Datalogger Tag blocks as per specs.. Complete Data Logger & Processor Module shall be placed in President / Rittel rack of suitable size to be supplied. This also includes supply of one no. of Computer, Computer Table(Godrej make), UPS, Printer and one no. Operator Chair (Godrej make) as per Technical Specification.	1	Nos.	5.25
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188	Supply of SMPS Based Integrated Power Supply System as per specification no. RDSO/SPN/165/2012 (Ver. 3.0) including supply of 110/300AH Low Maintenance Lead Acid (LMLA) secondary Battery for S&T installation as per IRS S-88/2004 and battery rack (if required), remote indication panel, and 05 nos of spares batteries, tool kit and spares as per RDSO specs		4	Set	76.19
189	Tentative drawing of IPS is attached with this tender document but current/voltage ratings of different modules may change as per actual load requirement.				

190	Supply of Mini Integrated Power Supply System for IBS as per specification no. RDSO/SPN/165/2012 (Ver. 3.0) including supply of 110/120AH Low Maintenance Lead Acid (LMLA) secondary Battery for S&T installation as per IRS S-88/2004 and battery rack, remote indication panel, and 05 nos of spares batteries, tool kit and spares as per RDSO specs, whichever and wherever applicable.		2	Set	16.50
191	Tentative drawing of Mini IPS is attached with this tender document but current / voltage ratings of different modules may change as per actual load requirement.				
	Block Working				
192	Supply of double line SGE type block instruments including relays as per spec. no. IRS-S-98-2001 with latest amendments.		3	Nos	1.28
193	Supply of Block Bell unit in 25 KV AC RE area as per spec. no. TC 44/88 or latest		3	Nos	0.02
194	Supply of Block Filter unit for 25 KV AC RE area as per spec. no. IRS:S-68/89 or latest Signals		3	Nos	0.13

195	Supply of FRP CLS Unit 2 Aspect (without lenses and lamps) as per spec. no. RDSO/SPN/194/2006 Ver 2.0 or latest.		32	Nos.	0.28
196	Supply of FRP CLS Unit 3 Aspect (without lenses and lamps) as per spec. no. RDSO/SPN/194/2006 Ver 2.0 or latest.		19	Nos.	0.30
197	Supply of Main Signal Post 140 mm outer dia 5.5/4.5 Mtr Length as per spec Nos IRS S 6/81 with latest amendments alongwith surface base with Anchor bolts, ladder complete with platform and suitable offset brackets.		22	Nos.	0.17
198	Supply of Main Signal Post 140 mm outer dia 3.5 Mtr Length as per spec Nos IRS S 6/81 with latest amendments alongwith surface base with Anchor bolts, ladder complete with platform and suitable offset brackets.		25	Nos.	0.19
199	Supply of FRP Route Indicator 1/2 way (without lenses and lamps) as per RDSO Spec. no. RDSO/SPN/194/2006 Ver 2.0 with latest amendments.		6	Nos.	0.47

200	Supply of FRP Route Indicator 3/4 way (without lenses and lamps) as per RDSO Spec. no. RDSO/SPN/194/2006 Ver 2.0 with latest amendments.		3	Nos.	0.50
201	Supply of FRP Calling-on Unit		7	Nos.	0.03
202	Supply of FRP Shunt signal Dependent type complete along with offset bracket (without lenses and lamps) as per spec.no. RDSO/SPN/194/2006 Ver 2.0 or latest		11	Nos.	0.11
203	Supply of FRP Shunt signal Independent type complete as per spec. no. RDSO/SPN/194/2006 Ver 2.0 or latest with steel post & CI base along with anchor bolts as per RDSO drawing (without lenses and lamps). This includes supply of Hand cuff Locks & signal number plate.		23	Nos.	0.13
204	Supply of LED Signal Lighting Unit (Red) for Main Signals as per specification no. RDSO/SPN/199/2010 (Rev 1.0) dated 11.04.14.		31	Nos.	0.13
205	Supply of LED Signal Lighting Unit (Yellow) for Main Signals as per specification No. RDSO/SPN/199/2010 (Rev 1.0) dated 11.04.14		23	Nos.	0.13
206	Supply of LED Signal Lighting Unit (Green) for Main Signals as per specification no. RDSO/SPN/199/2010 (Rev 1.0) dated 11.04.14.		9	Nos.	0.17

207	Supply of LED Signal Lighting Unit for Route Indicator as per specification no. RDSO/SPN/153/2011 (Rev 4.1).		72	Nos.	5.54
208	Supply of LED Signal Lighting Unit for Calling On Signals as per specification No. RDSO/SPN/153/2011 (Rev 4.1)		7	Nos.	0.09
209	Supply of LED Signal Lighting Unit for Shunt Signals as per specification No. RDSO/SPN/153/2011 (Rev 4.1).		91	Nos.	0.08
210	Supply of Calling ON Board, etc. as per Drg. No. SA 23455, RST-11445 & SA 23476-77.		7	Nos.	0.05
211	Supply & Fixing of screen on signal by expandend Metal size 20mm X 60mm (strand 3.25 mm wide and 1.6 mm thick) as per instruction at site by Engineer incharge .This includes supply of all materials including earth electrode and earthing arrangement		43	Nos.	0.16
212	Supply of QNA1 relay, 24V DC, 8F/8B along with plug-in board, retaining clip and connectors, conforming to BRS:931A, IRS:S60, IRS:S34 & IRS:S23.		74	Nos.	0.04
	Digital Axle Counter (DAC)				

213	Supply of Digital Axle Counter system (DAC), conforming to specs no. RDSO/SPN/176/2005 (Ver.2) or latest, with complete material as per RDSO specs and OEM's installation manual, including Track Clearance relay for each track section, mush room housing for Track Side equipments, earthing material, fixing arrangement for each Detection Point (DP), OEM's Manual. Equipment should be fully wired, configured and equipped in redundant mode as per attached SIPs of 03 stations and 02 IBS. The Axle-counters should be additionally equipped for fail-safe transmission of required vital Inputs / Outputs between Stations and IBSs		262	DP	5.67
214	Supply of DAC Tool Kit. as recommended by OEM/RDSO.		3	Nos	2.49
	Location Boxes				
215	Supply of Apparatus Case Half as per Drg no WS-8842/A with latest alteration along with miniature 'E' type locks with keys (1 key per 5 L.Boxes and handle) of ward nos. 41 (E type lock & key as per spec. no IRS S 30 & RDSO drg.nos. SA 3376/M & 3377/M respectively with latest Amdt) on both the doors, duly painted with red oxide. This item also includes supply of wooden plank of suitable size.		18	Nos.	0.15

216	Supply of HRC Fuses 2A / 4A / 6A (Spec. No. IRS:S-78/92) with Fuse Block (Spec. No. IRS:S-75/2006 (Rev.2) and drg. no. SA- 23748 (Alt.4)).		100	Nos.	0.00
217	Supply of 5A switch, 3 pin socket, lamp holder with 110V/60W lamp		73	Nos.	0.00
	Earthing				
218	Supply of normal Earth Electrode for earthing of S&T installations with all the associated materials as per extant practice of WCR		120	Nos.	0.05
219	Supply of cables protection material				
220	Supply and placing of RFID Electronic marker with capability of saving user specific data inside the merker memory chip later readable by locator during location (10m diameter with floating coil to detection of circuit always horizontal for better detection) which can be buried upto depth of 5 ft. for signalling and telecom cables as per technical specification number TEC /GR/TX/ TIE -07/02 March 2014 (latest amendments)		396	Nos.	0.03

221	Supply of polyolefin cable channel size width 240/340mm, height 155/230 internal external, length 1 meter produced from polyolefin with fire protection class K-1 in accordance with DIN53438 part II for laying Signalling/Telecom cables channel attachable to each other with male female swallow all connectors and having suitable detachable cover.		15.1	Km	29.15
222	Operational assistance to maintenance staff				
223	Supply of Godrej chair model PCH - 7002 or better		4	Nos.	0.04
224	Supply of office chair similar to methodex Model No. V29 or equivalent with arms size 830x600x550mm with PU moulded cushion and round CRP pipe complete in all respect. Make:- Godrej, Methodex or similar.		6	Nos.	0.05
225	Supply of Godrej Office table model T-8 or better		6	Nos.	0.18
226	Supply of Steel Almirah Full size (61/2') Godrej model Storewel plain		4	Nos.	0.29

227	Supply of Steel Almirah Half size (41/2') Godrej model Storewel minor plain		4	Nos.	0.25
	Tools & Plants				
228	Supply of Signalling Tools & Plants as per Annexure-1.		5	Set	0.23
	VARIOUS TYPES OF CABLE				
229	Supply of PVC insulated armoured unscreened, underground Railway Signalling cable 12 Core 1.5 sqmm (copper conductor) as per RDSO specification No. IRS: S 63/2014 (Rev 4.0) or latest .		215	Km	2.21
230	Supply of underground Jelly filled 6-Quad cable of size 0.9 sqmm dia conforming to specn no. IRS:TC-30/2005 (Ver-1) with amd-5 or latest.		50	Km	3.54
231	Supply of Polythene insulated Sheathed Jelly Filled Telephone cable 5 Pair of Size 0.9 mm with poly -Al moisture Barrier as per IRS TC 41/97.		20	Km	1.38
	MISCELLANEOUS				
	Supply of Fire Alarm system				

232	Supply, Installation, Testing and commissioning of Automatic Fire Detection & Alarm System (AFDAS) for Signalling installations as per specn no. RDSO/SPN/217/2016 Ver 1.0 or latest consisting of probe type bimetallic heat detector with base, UV & IR flame detectors with base, heat & smoke multisensor with base, aspirating type smoke detectors with base, linear heat sensing (LHS) cables, LHS interface module, LHS cable end of line box with modular junction box, monitor module for LHS cable alarm input to fire panel, addressable hooter, fire alarm control panel with sufficient input ports for connecting various sensors/detectors along with their interfaces, if any, and shall have sufficient output ports for controlling fire extinguishing system, operating/ switching off electrical units and having provision for remote monitoring network along with software, intelligent addressable Manual call points, audio visual alarm, fire survival circuit integrity cables etc. The AFDAS shall also consist of fire suppression system as per RDSO specification. The fire alarm panel should also consist of switched mode power supply system, battery backup and charger, display board which will have character display with touch key pad, RS-232/485 Networking Circuit, USB 2.0 Port, Programmable inputs, NAC's and Programmable relays, and loop card circuits,	6	No.	11.59
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	necessary software for display of fire alarm, necessary interconnecting cables etc. Power supply Board will have SMPS fully protected board, battery backup with built in charger as per RDSO specification.				
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233	Supply of Universal Plug-in type AC Lamp Proving Relay (M-to-C Contact) for LED Signal Lamp conforming to specs BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002, Amdt.-1		10	No.	0.07
234	Supply of Key Lock Relays working on 24 V DC		31	No	0.04
	OFC TRANSMISSION SYSTEM, CABLE TERMINATION & JOINTING				
235	Supply of 24 fibre Armoured Optic fibre Cable as per spec. IRS:TC:55/2006 Rev-1 Amd. 2 or with latest amendment.		2	KM	1.35
236	Supply of loose tube pigtail with FC-PC connector at one end each of minimum 5 mtrs. length as per TEC Specn No. G/OFJ-01/03 JUN 99 (with latest amdt)		96	Nos	0.02
	DUCTS AND ACCESSORIES FOR OFC				

237	Supply of HDPE duct 40/33 mm permanently lubricated in lengths of 1000 Mtrs and accessories including end caps for every drum length as per spec. RDSO/SPN/TC/ 45/2013 Rev.-2.0 Amdt.-2.0 including latest amendment. This includes the loading, unloading and transportation at the site of work. This also includes supply of HDPE Duct Accessories like 2 (two) END PLUG, 2 (two) Cable sealing plug and 2 (two) Plastic coupler-slip fit push type for every KM of HDPE supplied.		2	Km	0.96
238	Supply of OFC Joint Enclosure for straight through joint with modification for 24 fibre OFC as per TEC spec GR/OJC-02/02 SEP 2003 (with latest amendment) or latest		2	Nos	0.05
239	Supply of Thermoshrink jointing kit for Jely filled Six quad cable conforming to spec. IRS:TC-77/2006 (Rev 1) with latest amendment.		2	Nos	0.04
240	Supply of Thermoshrink jointing kit for Jely filled PIJF cable conforming to spec. IRS:TC-57/2006 (Rev 0) with latest amendment.		4	Nos	0.04
241	Supply of 3-mtr SC-SC Duplex Fibre Patch Cord SM-9/125 microns, D-link or similar		2	Nos	2,038.30

242	Supply of Hotline phones, suitable to work on Dark Fibers with all accessories and connectors for communication between IBS and its controlling SM.		5	Nos	0.22
243	Supply of encloser with LN key-lock, suitable to house hotline phone at IBS location, made of Mild Steel or FRP or of any other material approved by Engineer in charge of the work		3	Nos	0.06
	Telecom - Tools and Equipments				
244	Integrated Electronic Cable route tracer/locator with high power transmitter for effective long distance locating. 04 active frequencies (512.KHz. 33KHz. 133KHz) depth range upto 09mtrs. Passive power frequency, current and resistance measurement in both transmitter and receiver. Super induction mode. with capability of electronic marker locating (both passive and RFID) and sheath fault locating in a single equipment. Weight less than 2.5Kgs for transmitter as well as receiver. Signal Current measurement in cable as per technical specification no.TEC/GR/ITIE-07102. March-2014.		1	Nos	5.59
245	E.I	RDSO specs	3	Numbers	1,000.00
246	IPS	RDSO specs	3	Numbers	50.00
247	Various signal & telecom Cables	RDSO specs	300	Km	500.00

	<u>IT</u>				
248	Desktop	Intel Core i5/ Core i7, 8/16 GB RAM, 256/512 GB SSD	70	120000	37.00
249	Laptop	4th Gen Core i5 Processor, windows 8/10	1	Number	0.60
250	Lap Top –office use	HP make	2	Nos	1.35
252	Lap Top –office use	HP make	2	Nos	1.35
253	Printer Desktop/Laptop	HP/DELL	4	Nos.	3.00
254	Network Printers	High end Multi-Function Printers (MFP)	5	200000	10.00
255	MFP Laser colour Printer		10	75000	7.50
256	Plotters		1	250000	2.50
257	Computer AMC				18.00
258	Antivirus	QuickHeal, Indian Brand	325	2000	6.50
259	Other software	MS-Projects, Primavera, Adobe, Autocad			10.00
260	Web Cam Speaker + Head Phone		50	7000	3.50
261	Misc. item like SSD, Keyboard, mouse				2.00
	<u>Admin</u>				

262	Epoxy paint	Surface Protective Coating	21243	Lit	85.00
263	Head Hardened	Grade 1080	5000	Tonnes	5,000.00
264	Paper A-4 Power 75GSM	75GSM	358	Rim	0.63
265	Paper A-3 Power 75GSM	75GSM	40	Rim	0.15
266	Binder Clip 19mm	19mm	42	Pkt	0.02
267	Binder Clip 41mm	41mm	36	Pkt	0.03
268	Cello Tape white 1/2" (12 pcs)	1/2"	74	No	0.01
269	Cello Tape white 1" (6 pcs)	1"	64	No	0.02
270	Brown Packing Tape 2" (6Pcs)	2"	60	No	0.02
271	Dak Pad Leather	Leather	20	No	0.06
272	Dak Pad Ordinary Good Quality		48	No	0.05
273	Eraser		170	No	0.01
274	File Index /Box Type (Good Quality)	Box Type	114	No	0.10
275	File Cover Plastic Strip Type	Strip Type	200	No	0.02

276	File Cover Plastic (Solo Recycle Spring Cobra)	Solo Recycle Spring Cobra	200	No	0.11
277	Fevi Stick Big Size	Big Size	122	No	0.03
278	Gum Tube		128	No	0.01
279	Fevicol Tube		110	No	0.01
280	Gem Clip U Medium	Medium	54	Pkt	0.01
281	Highlighter Medium	Medium	66	Pkt	0.01
282	Note Book Spiral (Big) Matrix	Big Size	190	No	0.20
283	Executive Note Book (14*21.6cm)	14*21.6cm	80	No	0.11
284	Note Book Spiral (5"x8") 200pages	(5"x8") 200pages	138	No	0.11
285	Note Book Spiral (5"x8") 100pages	(5"x8") 100pages	140	No	0.08
286	Ball Pen Cello Blue	Cello	320	No	0.03
287	Ball Pen Cello Black	Cello	90	No	0.01
288	Ball Pen Cello Red	Cello	90	No	0.01
289	Pen Pilot Luxar V5	Luxar V5	130	No	0.07
290	Pencil (Apsara/Nataraj/ Faber/Castell)		172	No	0.01

291	Punch Machine 600	600	32	No	0.03
292	Post in Pad /Stiky (Flag Coloured)	Flag Coloured	66	No	0.02
293	Post in Pad /Stiky (76mmx76mm)	76mmx76mm	40	No	0.02
294	Post in Pad /Stiky (75x123mm)	75x123mm	30	No	0.02
295	Box File 24T STC	24T STC	320	No	0.36
296	Register 500Pages (Long Size good Quality)	500Pages	50	No	0.14
297	Register 400Pages (Long Size good Quality)	400Pages	60	No	0.12
298	Register300Pages (Long Size good Quality)	300Pages	80	No	0.13
299	Register 200Pages (Long Size good Quality)	200Pages	96	No	0.09
300	Register 100Pages (Long Size good Quality)	100Pages	96	No	0.07
301	Stapler M-10	M-10	32	No	0.01
302	Staples M-10	M-10	64	No	0.01
303	Stapler Big 24/6 -1M	24/6 -1M	16	No	0.01
304	Staples 24/6	24-Jun	32	No	0.00
305	Board Pin		12	PKt	0.00

306	Sharpener		48	No	0.00
307	L-Type plastic File	L-Type	130	No	0.02
308	Strip Plastic File	Strip	100	No	0.01
309	Flued Pen		46	No	0.01
310	Drawing Folder A-3 Size with leaf	A-3 Size with leaf	40	No	0.30
311	Drawing Folder A-4 Size with leaf	A-4 Size with leaf	40	No	0.20
312	Sketch Pen		16	Pkt	0.01
313	Envelop A-3 (16x12)	A-3 (16x12)	840	No	0.04
314	Envelop A-4 (10x12)	A-4 (10x12)	840	No	0.03
315	Envelop (27x11.5cm)	(27x11.5cm)	1640	No	0.03
316	Spring File Good Quality		500	No	0.19
317	Marker (Permanent)	Permanent	100	No	0.03
318	Attendance Register		20	No	0.01
319	Calculator (18 Digit)	18 Digit	4	No	0.02
320	Calculator (12 Digit)	18 Digit	6	No	0.02
321	Call Bell		6	No	0.03

322	Dispatch Register 350 Pages	350 Pages	2	No	0.01
323	Letter Receiving Register	350 Pages	2	No	0.01
324	Pen Drive 32GB	32GB	4	No	0.03
325	Paper Cutter (Big)	(Big)	6	No	0.00
326	Spirit (5ltr/Jerkin)	5ltr/Jerkin	48	Can	0.61
327	Hand sanitizer 100ml	100ml	1200	No	0.51
328	Hand Sanitizer 500ml	500ml	240	No	0.47
329	Hand Gloves (surgical)	surgical	600	Pairs	0.19
330	Bleaching Powder		300	Kg	0.22
331	Hypochlorite (5 Ltr Jerkin)	5ltr/Jerkin	240	Can	1.63
332	Spry Machine (Battery) 10Ltr. Tank capacity	10Ltr. Tank capacity	10	No	0.47
333	Three Layer Cotton Mask	Cotton	5000	No	0.75
334	Thermal Scanner		8	No	0.70
335	Hand Wash (Dettol/Lifeboy)		1200	No	0.74
336	Hand Wash Refill Pouch 5ltr capacity	5ltr capacity	32	No	0.21

337	Cotton Hand Gloves	Cotton	3000	Pairs	2.01
338	Glass works	6mm thick toughened	786	SQM	11.76
339	Printing and Stationery	Paper , Ink and Laserjet Catridges etc	40	RIM, Nos	3.00
340	Printing and Stationery	Paper , Ink and Laserjet Catridges etc	25	RIM, Nos	1.90
341	Stationery	Good quality	1	year	2.00
342	Furniture/B ed/AC etc	Good quality	1	year	3.00
343	Small & Misc. items		LS		200.00
				Total	119999.27

