


















































































ANNEXURE- B
Tools for GIS erection & commissioning (to be supplied by GIS supplier)

Installation Tools_V5 (272 No)							
Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
1	Rotation carriage for transportation of GIS/HIS substation components with a max. of 2,0t. each roller 1 set = 4 rolls		1	-	F	M	Roller Skates with Handle
2	Hydraulic pressure cylinder RC 104		4	ENERPAC	F	M	
3	Hydraulic short stroke cylinder RCS 201		1	ENERPAC	F	M	
4	Hydr. Handpump P 80		5	ENERPAC	F	M	Qty modified to 5 from 4
5	High-pressure hose 3/8 inch-18 NPT 900 mm high-pressure hydraulic		5	ENERPAC	F	M	Qty modified to 5 from 2
6	Hhydraulic couplings CH 604 3/8 NPT plug		5	ENERPAC	F	M	Qty modified to 5 from 4
7	Cordless drill screwdriver ABS 12 NiCd		1	BOSCH	F	M	
8	Set tap HSSE DIN352 M 3		1	ATORN	NF	M	
9	Set tap HSSE DIN352 M 4		1	ATORN	NF	M	
10	Set tap HSSE DIN352 M 5		1	ATORN	NF	M	
11	Set tap HSSE DIN352 M 6		1	ATORN	NF	M	
12	Set tap HSSE DIN352 M 8		1	ATORN	NF	M	
13	Set tap HSSE DIN352 M 10		1	ATORN	NF	M	
14	Set tap HSSE DIN352 M 12		1	ATORN	NF	M	
15	Set tap HSSE DIN352 M 16		2	ATORN	NF	M	



















Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
16	Double open-end wrench 10-parts 4 - 11 mm ELECTRIC		1	STAHLWILLE	F	M	
17	Combination wrench 12-parts 10 - 32mm DIN 3113		1	ATORN	F	M	
18	Adapter combination ratchet 10 mm		3	ATORN	F	M	Qty modified to 3 as per Rana's Mail
19	Adapter combination ratchet 24 mm		3	ATORN	F	M	Qty modified to 3 as per Rana's Mail
20	Adapter combination ratchet 17 mm		3	ATORN	F	M	Qty modified to 3 as per Rana's Mail
21	Adapter combination ratchet 19 mm		3	ATORN	F	M	Qty modified to 3 as per Rana's Mail
22	Adapter combination ratchet 13 mm		3	ATORN	F	M	Qty modified to 3 as per Rana's Mail
23	Hexagon screwdriver 9-parts 1.5-10 mm ball-end		2	GARANT	NF	M	Qty modified to 3 as per Rana's Mail
24	Screwdriver insert 14 mm 1/2 inch Length 140 mm for Hexagon socket screws		2	GEDORE	F	M	
25	Adapter 1/2 inch to 3/8 inch DIN 3123		2	STAHLWILLE	F	M	
26	Adapter 1/4 inch to 3/8 inch DIN 3123		2	STAHLWILLE	F	M	
27	adapter 1/4 inch to 1/2 inch DIN 3123		2	STAHLWILLE	F	M	
28	Torque wrench 5 - 50 Nm 9 x 12 holder		1	STAHLWILLE	F	C	
29	Torque wrench 20 - 200 Nm 14 x 18 holder		2	STAHLWILLE	F	C	One Extra Qty added for parallel work st site
30	Torque wrench 60 - 300 Nm 14 x 18 holder		1	STAHLWILLE	F	C	
31	plug-in ratchet 3/8" shank 9 x 12 size 5 735		2	STAHLWILLE	F	M	
32	Plug-in ratchet 1/2" shank 14 x 18 size 20 735		2	STAHLWILLE	F	M	
33	Square plug-in tool shank 9 x 12 size 5 734		1	STAHLWILLE	F	M	
34	Square plug-in tool shank 9 x 12 size 10 734		1	STAHLWILLE	F	M	

















Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
35	Open-end wrench plug-in tool shank 9 x 12 mm 731/10		2	STAHLWILLE	F	M	
36	Open-end wrench plug-in tool shank x 14x18 mm 731/10		2	STAHLWILLE	F	M	14 x 18 mm new size modified
37	Open-end wrench plug-in tool shank 14 x18 mm 24 mm 731/40		2	STAHLWILLE	F	M	
38	Ring wrench plug-in tool shank 14 x18 mm 17 mm 732/40		2	STAHLWILLE	F	M	
39	Ring wrench plug-in tool shank 14 x18 mm 19 mm 732/40		2	STAHLWILLE	F	M	
40	Ring wrench plug-in tool shank 14 x18 mm 24 mm 732/40		2	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
41	Plug-in tool 10 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
42	Plug-in tool 11 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
43	Plug-in tool 12 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
44	Plug-in tool 13 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
45	Plug-in tool 14 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
46	Plug-in tool 16 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
47	Plug-in tool 17 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
48	Plug-in tool 18 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail

Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
49	Plug-in tool 19 mm SW Ring open 9 x 12		1	STAHLWILLE	F	M	As per Mr. Sarvanan's Mail
50	Forge hammer D. 1042 5 kg with ash wooden handle		1	HABERO	F	M	
51	Plastic hammer cellulose actat 40 mm head diameter with ash wooden handle		2	HABERO	F	M	
52	Soft face hammer SUPERCRAFT 60 mm head diameter with Hickory handle		2	HALDER	F	M	
53	Crate opener 800 mm round		4	Crate	F	M	
54	All purpose pull jacks 750 kg carrying capacity 1.5m stroke		2	Yale	F	S	
55	All purpose pull jacks 1,500 kg carrying capacity 1.5m stroke		2	Yale	F	S	
56	Eurobox transport box 800 x 600 x 610 mm		2	ZARGES	F	M	Qty modified to 2 as per Rana's Mail
57	Industrial Vacuum cleaner (MORE THAN 3000W)		1		F	M	For Room Cleaning
58	Vacuum cleaner Viva Spin 7486		1	LG	F	M	For Bay Cleaning
59	INOX depth callipers 300 mm		1	Mitutoyo	NF	M	
60	Light metal spirit level 1800 mm yellow powder coated		1	BMI	F	M	
61	Light metal spirit level Length 1,000 mm with 3 vials		1	BMI	F	M	
62	Aluminium spirit level with angle vial, length 500 mm		1	BMI	F	M	
63	ALU spirit level with a magnet Length 200 mm		1	BMI	F	M	200 mm to be ordered instead of 400 mm
64	Fork lift truck 2.5 t. 1150 mm RAL 5012 light blue		2		F	M	

Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
65	Drilling machine DSeu 638 Kinetik (With All types of drill bits as follows from ø2.4 to ø13mm)		1	BOSCH	NF	M	
66	Twist drill DIN338 HSS 2.4 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
67	Twist drill DIN338 HSS 3.2 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
68	Twist drill DIN338 HSS 4 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
69	Twist drill DIN338 HSS 4.8 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
70	Twist drill DIN338 HSS 5 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
71	Twist drill DIN338 HSS 5.5 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
72	Twist drill DIN338 HSS 6.5 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
73	Twist drill DIN338 HSS 8.2 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
74	Twist drill DIN338 HSS 8.5 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
75	Twist drill DIN338 HSS 10 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
76	Twist drill DIN338 HSS 11 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
77	Twist drill DIN338 HSS 12 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
78	Twist drill DIN338 HSS 13 mm Type N (rolled)		1	HILTI	NF	M	Req. in Special Cases
79	Hand circular saw 0 601 668 701 GKS 65 CE with Pouch		1	BOSCH	F	M	
80	Angle grinder WSS 14-125		1	FEIN	NF	M	Suggested By Sarvanann
81	Compass saw 0 601 510 660 GST 120 E		1	BOSCH	NF	M	Suggested By Sarvanann
82	Combination wrench 46 mm DIN3113 A OPEN-BOX		2	STAHLWILLE	F	M	








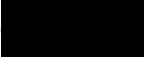
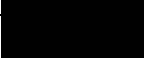

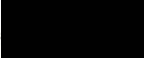
Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
83	Combination wrench 41 mm DIN 3113 B OPEN-BOX		2	STAHLWILLE	F	M	
84	Combination wrench 36 mm DIN 3113 B OPEN-BOX		1	STAHLWILLE	F	M	
85	Single open-end wrench 50 mm DIN 894		2	ORION	F	M	Incorporated as per Rana's Mail
86	Single open-end wrench 30 mm DIN 894		2	ORION	F	M	Incorporated as per Rana's Mail
87	Single open-end wrench 32 mm DIN 894		2	ORION	F	M	Incorporated as per Rana's Mail
88	Double open-end wrench 50 x 55 mm DIN 895		2	ORION	F	M	Incorporated as per Rana's Mail
89	Single open-end wrench 55 mm DIN 894		2	ORION	F	M	Incorporated as per Rana's Mail
90	Single open-end wrench 46 mm DIN 894		2	ORION	F	M	Incorporated as per Rana's Mail
91	Single open-end wrench 75 mm DIN 894		2	ORION	F	M	As per Mr.Sarvanan's Mail
92	Double ring wrench 12-parts 6x7-30x32 DIN 838 6x7, 8x9, 10x11, 10x13, 12x1		1	ATRON	F	M	Incorporated as per Rana's Mail
93	Angled screwdriver 13-parts T 6- T 50 long version		1	GARANT	F	M	Incorporated as per Rana's Mail
94	Socket spanner 1/4 inch + 1/2 inch 63-parts Hexagon and TORX		1	STAHLWILLE	F	M	
95	Socket spanner 1/4 inch 29-parts Hexagon		1	ATORN	F	M	
96	Screwdriver Inserts 9-piece 1/2 inch 5- 17mm For hex screws 1/4inch and /		1	ATORN	F	M	
97	Small component Assortment case model 321 B		2	SORTIMO	F	M	As per Mr. Sarvanan's Mail
98	Ratchet 1/2 inch DIN3 122 380 mm with plastic handle		2	STAHLWILLE	F	M	
99	Heavy-duty combo-pliers 200 mm head polished with Plastic handle		4	KNIPEX	F	M	
100	Water pump pliers 250mm w.grooved joint head polished w.plastic handle		4	KNIPEX	F	M	
101	Mechanic's pliers angled jaws		4	KNIPEX	F	M	
102	Screwdriver Inserts 9-piece 1/2 inch 5- 17mm For hex screws 1/4inch and /		1	GARANT	F	M	
103	Flat chisel DIN 6453 200 mm chrome-vanadium		4	ORION	F	M	












Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
104	Cross-cut chisel DIN 6451 200 mm chrome-vanadium		4	ORION	F	M	
105	Engineering hammer DIN 1041 1,000 kg with ash wooden handle		2	ORION	F	M	
106	Engineering hammer DIN 1041 0.500 kg with ash wooden handle		2	ORION	F	M	
107	Special grip pliers 250 m with mobile sub-jaw No		2	GEDORE	F	M	
108	Cable knife 4 pieces, folding		4	GEDORE	F	M	
109	Loop tape 90x7mm yellow Carrying capacity 3,000 kg length 2m 2 layer, loops 350m		2		F	S	
110	Loop tape 90x7mm yellow Carrying capacity 3,000 kg length 4m 2 layer, loops 350m		2		F	S	
111	Loop tape 30x7mm violet Carrying capacity 1,000 kg length 2m 2 layer, loops 200m		2		F	S	
112	Loop tape 60x7mm green Carrying capacity 2,000 kg length 2m 2 layer, loops 300mm		2		F	S	
113	Round sling 1,000 kg load-5 m circumference		2		F	S	
114	Round sling 2,000 kg load- 2 m circumference		2		F	S	
115	Round sling 2,000 kg load-4 m circumference		4		F	S	Qty modified to 4 from 2 as per Mr. Jakate's Mail
116	Round sling 2,000 kg load - 5 m circumference, two ply		2		F	S	As per Mr. Jakate's List this has to be added in V5 But already it was in V4 List
117	Round sling 3,000 kg load-4 m circumference		2		F	S	
118	Round Slings 3000 Kg ,8 m circumference,(Effective Length 4 m)		4		NF	S	New Tool Added As per Mr. Jakate list & As per Mr. Rana' Mail. This can be used for 2000 KG, 8 m also
119	Round Slings 2000 Kg ,10 m circumference,(Effective Length 4 m)		2		NF	S	New Tool Added As per Mr. Jakate list & As per Mr. Rana' Mail
120	Round sling 5,000 kg load - 3 m circumference, two ply		4		NF	S	New Tool Added As per Mr. Jakate list
121	Round sling 5,000 kg load - 6 m circumference, two ply		4		NF	S	New Tool Added As per Mr. Jakate list


















Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
122	Step ladder both sided Can be walked 2 x 7 steps 1.97 m		2	ZARGES	F	M	
123	Step ladder both sided Can be walked 2 x 6 steps 1.69 m		2	ZARGES	F	M	
124	Pocket tape measure MBT EG II length 10 m width 32 mm Spikes hooks, belt clip		2	MBTEG II	F	M	
125	Steel tape measure in a case Scale length 50 M w.continuous millimetre division		1	MBTEG II	F	M	
126	Fflat squares 1000x 500 mm acc. to DIN 875 acc.grade 2		1	ATORN	F	M	
127	Back squares 200 x 130 mm acc. to DIN 875 acc.grade 2		1	ATORN	F	M	
128	Plastic folding rule 2 m EU class III		2	EU class III	F	M	Qty modified to 2 from 5
129	Feeler gauges set 13 sheets 0.05 - 1.00 mm		1	ORION	F	M	
130	Quick-action bar clamp 400 x 175 mm annealed cast iron		2	BESSEY	F	M	
131	File brush 115 x 40 mm		3	ORION	F	M	
132	Cable drum steel sheet with 50 m rubber cable 3x1.5 mm2		1		F	M	Alternative Indian Make Required
133	Rubber extension cable 10 m black		1		F	M	Alternative Indian Make Required
134	Working lamp 250+ 55 Watt with 2 sockets		1	HAWELLS	F	M	
135	Compact fluorescent tube 55 Watt for 250+		1	HAWELLS	F	M	
136	LED Inspection lamp medussa M-2		2		F	M	
137	Files, 5 piece 200 mm cut 2 with beech handle in roll-up pouch		1	DICK	F	M	Qty modified to 1 from 2



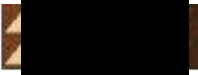
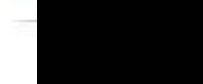
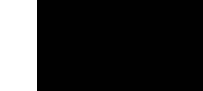
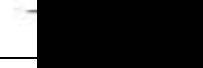











Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
138	Hacksaw blades 24 teeth 300x13x0,65mm HSS bimetal		5	ATORN	NF	M	Qty modified to 5 from 20
139	Hand Hacksaw frame 300 mm		1	ATORN	NF	M	Qty modified to 1 from 2
140	Plumb bob 300 g		2		F	M	Qty modified to 2 from 4
141	Plumb line 50 m perlon white		2		F	M	Qty modified to 2 from 4
142	Machine nut tap HSSE M 10 DIN371 HSSE-V3 ISO 2		1	ATORN	NF	M	
143	Machine nut tap HSSE M 12 DIN376 HSSE-V3		1	ATORN	NF	M	
144	Machine nut tap HSSE M 16 DIN376 HSSE-V3		1	ATORN	NF	M	
145	Machine nut tap HSSE M 8 DIN376 HSSE-V4		1	ATORN	NF	M	
146	Cutting discs for metal 125x3x22 mm special disc		2	ATORN	NF	M	Qty modified to 2 from 5
147	Double open-end wrench 10 mm ELECTRIC		1	STAHLWILLE	F	M	
148	Double open-end wrench 13 mm ELECTRIC		1	STAHLWILLE	F	M	
149	Ring wrench 24 mm		1	GEDORE	F	M	
150	Ring wrench 30 mm		1	GEDORE	F	M	As per Mr.Sarvanans' Mail
151	Ring wrench 32 mm		1	GEDORE	F	M	As per Mr.Sarvanans' Mail
152	Hook wrench with nose 95 - 100 mm DIN 1810 A		2	AMF	F	M	As per Mr.Sarvanans' Mail
153	Hook wrench with nose 80 - 90 mm DIN 1810 A		2	AMF	F	M	As per Mr.Sarvanans' Mail
154	Plug-in bar Size 0		1	GEDORE	F	M	
155	Hexagon screwdriver 9-parts slide cover 1.5-10 mm ball-end		1	ATORN	F	M	





Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
156	Socket spanner insert 13 mm 1/2 inch long version Bi-hexagon		1	ATORN	F	M	
157	Socket spanner insert 17 mm 1/2 inch long version Bi-hexagon		1	ATORN	F	M	
158	Socket spanner insert 19 mm 1/2 inch long version Bi-hexagon		1	ATORN	F	M	
159	Socket spanner insert 24 mm 1/2 inch long version Bi-hexagon		1	ATORN	F	M	
160	Articulated socket spanner 13 mm 53		1	STAHLWILLE	F	M	
161	Articulated socket spanner 17 mm 53		1	STAHLWILLE	F	M	
162	Articulated socket spanner 19 mm 53		1	STAHLWILLE	F	M	
163	INHEX-insert 1/2" 8 mm 1054/8		2	STAHLWILLE	F	M	
164	STAHLWILLE INHEX-insert 1/2" 10 mm 1054/10		2	STAHLWILLE	F	M	
165	Plug in adaptor 14x18 to 9x12		2	STAHLWILLE	F	M	
166	Plug in adaptor 9x12 to 14x18		2	STAHLWILLE	F	M	
167	Screwdriver insert 8 mm 1/2 inch Length 120 mm for Hexagon socket screws		1	GEDORE	F	M	As per Mr.Sarvanans' Mail
168	Screwdriver insert 10 mm 1/2 inch Length 140 mm for Hexagon socket screws		1	GEDORE	F	M	As per Mr.Sarvanans' Mail
169	Screwdriver insert 12 mm 1/2 inch Length 140 mm for Hexagon socket screws		1	GEDORE	F	M	As per Mr.Sarvanans' Mail
170	Manual tube bender with non-skid device, copper tube Ø 16 mm No. 2400		1	DAKO	NF	M	
171	Sheet metal punch standard 28.3 mm Ø PG 21 complete		1	ALFRA	NF	M	












Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
172	Sheet metal punch standard 37.0 mm Ø PG 29 complete		1	ALFRA	NF	M	
173	Sheet metal punch standard 22.5 mm Ø PG 16 complete		1	ALFRA	NF	M	
174	Sheet metal punch standard 47.0 mm Ø PG 36 complete		1	ALFRA	NF	M	
175	Thread repair set M5-M12 consisting of 230 parts		2	HELICOIL	NF	M	
176	Thread cutting die HSS EN22568 M 8		1	ATORN	NF	M	As per Mr.Sarvanans' Mail
177	Thread cutting die HSS EN22568 M 10		1	ATORN	NF	M	As per Mr.Sarvanans' Mail
178	Thread cutting die HSS EN22568 M 12		1	ATORN	NF	M	As per Mr.Sarvanans' Mail
179	Thread cutting die HSS EN22568 M 16		1	ATORN	NF	M	
180	Tool Ordereder with ratchet 85 mm clamping range 2.0 -5.0 mm		1	ORION	NF	M	
181	Tool Ordereder with ratchet 100 mm damping range 4.6 - 8.0 mm		1	ORION	NF	M	
182	Thread-cutting die stock Size 6 (38x14 mm)		1	ORION	NF	M	
183	Thread-cutting die stock Size 8 (45x18 mm)		1	ORION	NF	M	
184	Multi-purpose scissors 205 mm non-rusting		1		F	M	
185	Cable cutter with patented VDE design 280 mm .. KNIPEX No. 95 36 300		2	KNIPEX	F	M	
186	Screwdriver, 7-part with PZ 1/2 and voltage tester Plus-Series 100 VDE		2	WERA	F	M	
187	VDE rounded flat-nose pliers 200 mm curved 2 component grip		2	ATORN	F	M	
188	VDE side-cutters 180 mm head chrome-plated with two-component handle		4	KNIPEX	F	M	




Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
189	Wire-stripping tool 0.08 - 6 mm ²		2	ATORN	F	M	Qty modified to 2 from 4
190	Crimp tool PZ 16 for wire end sleeves H 6 - H 16		1	WEIDMÜLLER	F	M	Qty modified to 1 from 2
191	Crimp tool PZ 3 for wire end sleeves H 0.5 - H 6		1	WEIDMÜLLER	F	M	Qty modified to 1 from 2
192	Crimping lever pliers PreciForce for uninsulated Cable shoe and plug conn		2	KNIPEX	F	M	Qty modified to 2 from 4
193	Bolt cutters 760 mm length		1		F	M	
194	Slotted screwdriver 2.5 x 80 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
195	Slotted screwdriver 3.0 x 100 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
196	Slotted screwdriver 3.5 x 100 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
197	Slotted screwdriver 4.0 x 100 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
198	Slotted screwdriver 5.5 x 125 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
199	Slotted screwdriver 6.5 x 150 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
200	Slotted screwdriver 8.0 x 200 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
201	Slotted screwdriver 10.0 x 200 mm Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
202	Slotted clamping screwdriver screwdriver 3.5 x 0.6 x 150 mm		1	WIHA	F	M	Qty modified to 1 from 2
203	Slot-head screwdriver 6-parts in carton		1	ATORN	F	M	Qty modified to 1 from 2
204	Crosspoint screwdriver screwdriver PH 0 VDE SoftFinish		1	WIHA	F	M	Qty modified to 1 from 2
205	Crosspoint screwdriver screwdriver PH 1 VDE SoftFinish		1	WIHA	F	M	Qty modified to 1 from 2
206	Crosspoint screwdriver screwdriver PH 2 DE SoftFinish		1	WIHA	F	M	Qty modified to 1 from 2

Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
207	Crosspoint screwdriver screwdriver PH 3 VDE SoftFinish		1	WIHA	F	M	Qty modified to 1 from 2
208	Crosspoint screwdriver screwdriver PH 4 VDE SoftFinish		1	WIHA	F	M	Qty modified to 1 from 2
209	Nut spinner 6 mm VDE SoftFinish		1	WIHA	F	M	
210	Nut spinner 8 mm VDE SoftFinish		1	WIHA	F	M	
211	Voltage testing screwdriver screwdriver 3 x 60 mm VDE 220-250 V		2		F	M	As per Mr.Sarvanans' Mail
212	Screwdriver PZ 0 Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
213	Screwdriver PZ 1 Plus-Series 100 VDE		1	WERA	F	M	Qty modified to 1 from 2
214	Screwdriver PZ 3 VDE		1	WERA	F	M	Qty modified to 1 from 2
215	Screwdriver PZ 4 VDE		2	WERA	F	M	
216	Ideal shears 250 mm right, stainless steel with lever action		1	ERDI	F	M	
217	Multi-purpose scissors 205 mm non-rusting		1		F	M	
218	Crimp pliers Harting 09 99 000 0110		2		F	M	Qty modified to 2 from 4
219	Crimping lever pliers 180 mm for cable end sleeves self-adjusting		2	KNIPPEX	F	M	
220	Cross-head screwdriver screwdriver PH 1 x 80 mm VDE		1	ATORN	F	M	
221	Cross-head screwdriver screwdriver PH 2 x 100 mm VDE		1	ATORN	F	M	
222	Cable knife VDE-insulated straight blades 50 mm long		4	ORION	F	M	
223	Cable knife for cable diameter 4 - 16 mm with straight blade		2	ORION	F	M	Qty modified to 2 from 4

Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
224	Pipe cutter for pipes 3 - 35 mm		2	ORION	F	M	As per Mr.Sarvanans' Mail
225	Cable knife for cable diameter 8-28 mm with hooked blade		4	ORION	F	M	As per Mr.Sarvanans' Mail
226	Spare blade for cable knife, high carbon art. 53631		5		F	M	Qty modified to 5 from 15
227	Drift punch 10 mm chrome-vanadium		1	ORION	F	M	
228	Pare Heads Cellulose acetate 40 mm head diameter yellow		2		F	M	
229	Deburrer MANGO Set B		1	SHAVIV	F	M	
230	Continuity Tester		1	BENNING	F	M	
231	Digital multimeter MM 10		2	BENNING	F	C	As per Mr.Sarvanans' Mail
232	Analogue multimeter		1	METRAMAX	F	C	As per Mr.Sarvanans' Mail
233	Surface thermometer testo 905-T2		1		F	M	As per Mr.Sarvanans' Mail
234	Ratchet lashing strap, 2 part 8 m belt width 50mm made of PE tensile force max.		2		NF	M	
235	Ratchet lashing strap, 1 part 6 m belt width 35mm made of PE tensile force max.		2		NF	M	
236	Elastic lashing belt with hook 500 x 10 mm (luggage lashing belt)		2		NF	M	
237	tool case RAL 7035 / 5010 6 full extension drawers		2	ATRON	F	M	Qty Modified as 2 no as compared to 4 no in V3 List
238	Roller dispenser for paper Paper towels made of metal/blue		2		F	M	
239	Carpenter's pencil, professional quality length 24 cm, not pointed, packed in boxes of 12 pieces		2		F	M	Qty modified to 2 from 4
240	Pot magnet with threads 27 x 25.4 mm M6		2		NF	M	

Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
241	Padlocks Model 85/30 Made from brass, closing simultaneously		2		F	M	Qty modified to 2 from 4
242	LED lamps Turbo 1+3 without batteries		2		F	M	Qty modified to 2 from 4
243	Safety goggles i-vo blue grey		4	UVEX	F	M	
244	Light metal spirit level 2500 mm yellow powder coated		1	BMI	F	M	This tool Added As per Rana's Mail Dated on 23.02.2012
245	Guide Bolt	459-02931 001	6		F	M	Qty modified to 6 from 10
246	Guide Bolt	459-02931 002	6		F	M	Qty modified to 6 from 10
247	Guide Bolt	459-02931 003	6		F	M	Qty modified to 6 from 10
248	Guide Bolt	580-05062 001	6		F	M	Qty modified to 6 from 10
249	Guide Bolt	580-05062 002	6		F	M	Qty modified to 6 from 10
250	Guide Bolt	580-05062 003	6		F	M	Qty modified to 6 from 10
251	Guide Bolt	580-05110 001	6		F	M	Qty modified to 6 from 10
252	GuidePin	580-05110 002	6		F	M	Qty modified to 6 from 10
253	GuidePin	580-05110 003	6		F	M	Qty modified to 6 from 10
254	Guide Bolt	580-05110 004	6		F	M	Qty modified to 6 from 10

Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
255	Guide Pin	250mm (Custom)	6		F	M	Qty modified to 6 from 10
256	Guide Pin	500mm (Custom)	6		F	M	Qty modified to 6 from 10
257	Harting Pin Removal Tool	9990000319	2		F	M	Make: Harting
258	Eye Bolts M8		4		F	M	
259	Eye Bolts M10		4		F	M	
260	Eye Bolts M12		4		F	M	
261	Eye Bolts M16		4		F	M	
262	Lifting Nut		4		F	M	Added as per Mr. Jakate's List
263	Lifting Nut		4		F	M	Added as per Mr. Jakate's List
264	Shackle		4		F	M	Added as per Mr. Jakate's List
265	Shackle		4		F	M	Added as per Mr. Jakate's List
266	VT Template	58005089001	1		NF	M	145 KV Template
267	Helmet		4		F	M	
268	Safety Jacket		4		F	M	
269	Safety Mask		4		F	M	

Sr.No	Description	Pictorial Representation	Qty/Set	Make/Model	Frequency	Calibration or Maintenance or Safety	Remark
270	Safety Shoes (2 Pair)		2		NF	M	
271	First Aid Box (with all accessories & Medicines)		1		F	M	
272	Safety Hand Gloves		4		F	M	

Notes:

V4 Revision : Cupboard 1 no & Rack 1 No & Leather Bag for keeping tools removed, While Qty for Tools Trolley modified from 4 No to 2 No.

V5 Revision: Few of Tools Removed which are not required as per last commissioning experiences & Some new tools added which were not in list along with Safety/ PPE Tools required on site.

Notations : F--- Frequently Used (Unpresence can Fully affect the process)



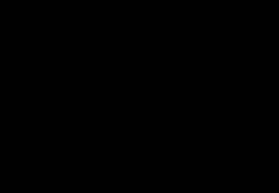








NF---Non Frequently Used (Unpresence can little bit affect process but can be managed)




M- Maintenance (Required)

C- Calibration (Required)

S- Safety Assessment (Required)

Commissioning Tools (15 No)

Sr. No	Description	Pictorial Description	Std. Pack Size (S.S. Box)	Req Qty/Set	
1	Gas leak detector Dilo 3-033-R002		1	2	
5	Indian Bottle Connector, 3-643-R002			3	
11	Current Leakage Tester for Knee Point Three AC current ranges 20mA/200mA/200A.			1	
12	Tong tester for Ratio Check and Crosscheck to instrument KYORITSU 2002PA /2000A			1	
6	Aforesaid Rubber Hose Interconnector DN-20-6-1059-R011			5	
7	Rubber Hose, 10 meter, DN-20-61017-R100			5	
2	Multimeter (with Accessories)			1	
3	Contact Resistance Meter			2	1
8	SF6-Analyzer multi-function instrument for dewpoint- and volume percent measurement			3	1
9	Insulation tester 5 kV MIT 520			4	1
10	Breaker DS & ES testing kit (8DQ1 0)		5	1	

Sr. No	Description	Pictorial Description	Std. Pack Size (S.S. Box)	Req Qty/Set
13	CT/VT Analyser		6	1
14	A4 case (SF6 inflating device incl. manometer)		7	1
15	9 part - connector set			1
16	Gas Filling Device		8	3