

Items required for carrying out IOH maintenance schedule of NO-32 type Tap Changer

1. Common Items/Components of NO 32 Tap Changer to be procured from REPL (BT type) or AAL (Ganz type) only

Sr. No.	Qty.	GANZ Type M/s AAL Make			M/s BT type M/s REPL make		
		Drg. No.	Item No.	Description	Drg. No.	Part No.	Description
A) Selector (GR)							
1	1	9919000109001	G1519	Locking Cord (0.6m)	SWT-435200-P1	S1519	Fibre glass cord. (0.6m)
2	2	9910383917001	G3309	Seal	AG-549697-P1	S3309	Gasket (for oil flow indicator)
3	1	9910383461005	G1421	Sealing ring	AG-544325-P5	S1421	Packing ring
4	2	9980383530801	G1515	Contact roller	AG-546151-R1	S1515	Contact roller complete
5	2	9910383461004	G1320.1	Sealing ring	AG-544325-P4	S1320.1	Packing Ring
6	2	9919000118001	G1434/G1440	Oil seal	SWT-435381-P1	S1434/S1440	Oil seal
7	1	9910383456002	G1303	Sealing Gasket	AG-207812-P2	S1303	Gasket
8	2	9919000117001	G1306.2a/ G1306.5a	Seal	AM-502840-P1	S1306.2/ S1306.5	Packing (for oil level indicator)
9	4	9910383541001	G1514	Bearing	AG-546150-P1	S1514	Bearing
10	1	9910383599001	G1302.3	Seal	AG-546167-P1	S1302.3	Gasket
11	2	9910383528001	G1518	Insulated Tube	AM-500801-P1	S1518	Insulating Tube
12	2	9910383534001	G1512	Insulating Tube	AG-546189-P1	S1512	Insulating Pipe
13	2	9919000080001	G1513	Contact Roller Housing	AM-300009-P1	S1513	Contact Roller Housing
14	1	9919000095006	G1601.1	Bushing double pole 'O' ring	AG-432122-P7	S1601.1	Packing Ring
15	3	9910383456004	G1107	Sealing Gasket	AG-207812-P4	S1107	Gasket
16	2	9910383533001	G1516	Roller Guide	AG416382-P1	S1516	Roller Housing
17	2	9910383578001	G1435	Coupling Pin	AG-546487-P1	S1435	Coupling Pin
18	08	9910383535001	G1517	Push Spring	AG-405322-P1	S-1517	Push Spring
B) Circuit Breaker (CGR)							
19	6	9910383694001	G2529	Contact piece	AG-540123-P1	S2529	Contact
20	12	9910383693001	G2517	Insulated sleeve	AM-502593-P1	S2517	Bush
21	6	9919000183001	G2502	Bush	AM-502699-P1	S2502	Insulating Bush
22	12	9910646714001	G2505	Insulating Washer	AM-502615-P1	S2505	Insulating Washer
23	6	9910383657002 9910383657003 9910646703002 9910646703001	G2151 G2144 G2146 G2154	Contact Bolt	AG-547421-P2	S2151 S2144 S2146 S2158	Contact Bolt

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		Drg. No.	Item No.	Description	Drg. No.	Part No.
24	13	9919000215001 9919000215002	G2152 G2147	Contact Nut M-12xTh-7	AG-547420-P1	S2152 S2147
25	2	9910646720024	G2515	Needle Roller Bearing	HAGT-443522-P1	S2515
26	6	9989000314801	G2537	Spring Guide	HAGT-443612-R1	S2537
27	6	9919000187001	G2503	Bush	AM-502618-P1	S2503
28	6	9919000317001	G2536	Compression Spring	AG-540918-P1	S2536
C) Oil Filtration Unit (PHGR) & CU Gaskets						
29	2	9919000059001	G3235/G3233	Cup seal for oil pump	SWT-435167-P1	S3235/S3233
30	2	9919000095004	G3225/G3222	O ring	SWT-435430-P4	S3225/S3222
31	2	9919000059002	G3270.3	Cup seal for oil pump	SWT-435167-P2	S3270.3
32	1	9919000095003	G3221	O ring	SWT-435430-P3	S3221
33	2	9919000095002	G3224/G3252	O ring	SWT-435430-P2	S3224/S3252
34	6	9919000095005	G3251	O ring	SWT-435430-P5	S3251
35	1	9919000095001	G3254	O ring	SWT-435430-P1	S3254
36	1	9919000197005	G31.1	Filter	SWT-335066-P5	S31.1
37	2	9919000150026	G3290.12	Gasket (copper)	MT-430152-P19	S3290.12
38	2	9919000150025	G3290.14	Gasket (copper)	MT-430152-P18	S3290.14
39	1	9919000150024	G3290.10	Gasket (copper)	MT-430152-P13	S3290.10
40	10	9919000150009	G3422/G3406	Gasket	MT-430152-P23	S3422/S3406
41	1	9919000150023	G3290.17	Gasket (copper)	SWT-435491-P3	S3290.17
42	7	9919000150011 9919000150010	G3433/G3435	Gasket	MT-430152-P34	S3433/S3435 /S3428
43	1	9919000297001	G3290.2	Cup Seal	SWT-435484-P1	S3290.2
44	1	9919000294001	G3290.7	Piston	SWT-435488-P1	S3290.7
45	2	9989000265801	G3280	Screw Plug complete	SWT-435158-R1	S3280
46	1	9989000293801	G3290.1	Locking Bolt Compl.	SWT-435490-R1	S3290.1
47	1	9919000269001	G3253	Middle Piece	SWT-335045-P1	S3253
D) Air Motor (SMGR)						
48	4	9910383461006	M1213	Sealing ring	SWT-435144-P2	A1213
49	4	9910383734002	M3108	Gasket	AG-544441-P2	A3108
50	4	9910383734001	M3111	Gasket	AG-544441-P1	A3111

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		Drq. No.	Item No.	Description	Drq. No.	Part No.
51	4	9980383790801	M3209	Push rod with seal	AG-544415-R1	A3209
52	2	9910383799001	M3206	Sealing nipple (Valve 'A')	AG-544411-P1	A3206
53	3	9910646780048/ 9910385081046	M1929.1/ G4212/ G4217	Roll pin (8X45)	MT-430189-P471	A1929.1/ S4212/ S4217
54	3	9910646780046/ 9919000009014	M1929.2/ G4216/ M3203	Roll pin (5X45)	MT-430189-P371	A1929.2/ S4216/ S4218
55	4	9910185894002	M3203	Seal Ring	AG-508472-P1	A3203
56	35	9910383855002	M6434	Cam type Aux. Switch	AM-400660-R1	A6434/ 5514/ A6331
57	2	9910383787001	M3204	Compression Spring	AG-544356-P1	A3204
58	8	9910383803002	M2313	Bearing Shell	AG-545649-P2	A2313
E) Accessories for Stainless Steel Element						
59	141	9919000087001	G4415	Mica Washer	KB-473201-P2	S4415
60	3	9919000092001	G4416.2	Tube	B-406533-P2	S4416.2
61	900gr.	99890000207801	G3608	Silica Gel	SWT-435501-R2	S4711
62	60gm.	99890000206801	G3612	Cork Grain	SWT-435543-R2	S4712
E) ZSM Panel						
63	1	9919000150016	G3947a	Copper Gasket 17/30x1		Gasket (For Inlet Side Nipple)
64	4	9919000150005	G3972a	Copper Gasket 18/10x1		Gasket (Outlet from two way solenoid valve to PHGR & SMGR)
65	1 Set		G3933	Overhauling kit of PRV (Seimeg)		Overhauling kit of PRV (Seimeg)
66	1 Set			Overhauling kit of EVPHGR		Overhauling kit of EVPHGR
67	1 Set			Set of Hardware 47 nos. as per Annexure -IOH-HW-1		Set of Hardware 47 nos. as per Annexure -IOH-HW-1

Total-66+47(Hardware)=113

1. Common Hardware items of NO 32 tap changer to be procured from REPL (BT type) or AAL (Ganz type) only									
Sr. No.	Qty.	GANZ Type M/s AAL Make			BT type M/s REPL Make				
		Drg. No.	Item No.	Description	Drg. No.	Part No.	Description		
1	2	9910383496001	G1442	Washer	A-509828-P1	S1442	Washer 52/42x0.2		
2	15		G1523	Packing Washer25.5/32x0.2	AG-544234-P3	S1523	Packing Washer25.5/32x0.2		
3	1	9910383575012	G1436	Roll Pin 3x25	MT430189-P216	S1436	Roll Pin 3x25		
4	4	9910646698001	G1438	Locking	SWT435084-P1	S1438	Spring Ring		
5	2	9910385081046	G4212/ G4217	Roll Pin 8x45	MT430189-P471	S4212/ S4217	Roll Pin 8x45		
6	2	9919000009014	G4216/ G4218	Roll Pin 5x45	MT-430189-P371	S4216/ S4218	Roll Pin 5x45		
7	2	9910383546001	G1508	Fixing Plate	AG544655P-1	S1508	Locking Washer		
8	24	9910646796011	G2604	Hex Socket Hd cap ScrewM6x25	MT-430956-P2008	S2604	Hex Socket Hd cap ScrewM6x25		
9	36	9919000184001	G2508	Disc Washer M6	HAGT-443524-P1	S2508	Belleville Spring Washer 6.2/18x0.5		
10	12	9910646720038	G2520	Split Pin 4x25	MT-430445-P2411	S2520	Split Cotter Pin 4x20		
11	6	9910646720028	G2530	Socket HD cap screw	MT-430956-P2109	S2530	Hex socket head cap screw M8x30		
12	6	9910646796014	G2524	Spring Washer-M8	SWT-435227-P1	S2524	Spring Washer		
13	6	9910646720066	G2540	Flat Washer-M8	MT-430445-P2022	S2540	Washer8.4/13*0.5		
14	2	9919000197004	G31.2	Cu Gasket	AM-400428-P2	S31.2	Cu Gasket 14/18x1.6		
15	2	9919000150022	G3212	Gasket	MT-430152-P36	S3212	Gasket 22.8/30x1		
16	4	9919000150027	G3270.4	Gasket (Cu) 5.5/11x0.2	SWT-435249-P1	S3270.4	Shim		
17	4	9919000150020	G3242	Gasket (Cu) 5/10x1	MT-430152-P6	S3242	Cu gasket 5/10x1		
18	8	9910383911026	G3202	Spring washer M8	SWT-435227-P1	S3202	Split Type Spring Washer 8.1/12.7		
19	1	9919000271005	G3236	Spring washer M12	MT-430197-P218	S3236	Spring Washer B12		
20	1	9919000150021	G3268	Gasket	3EYC-400029-P1	S3268	Gasket		

Sr. No.	Qty.	GANZ Type M/s AAL Make			BT type M/s REPL Make		
		Drg. No.	Item No.	Description	Drg. No.	Part No.	Description
21	8	9919000250008	M3110	Disc Washer M6	MT-430151-P22	A3110	Belleville Spring Washer 7.5x14
22	4	9910383796012	M3207	Internal Circlip 16x1	MT-430202-P16	A3207	Internal Circlip I 16
23	4	9910383811011	M2301	Circlip	MT-430201-P42	A2301	External Circlip A42
24	3	9910646780056	M1909a	Hex HD screw M10x35	MT-430151-P26	A1909	Hex Screw M10x40
25	2	9910646780035	M1915	Hex nut M12x0.8d	MT-430957-9114	A1915	Hex. Nut 0.8dxM12
26	2	9910646780031	M1913	Hex HD screw M12x45	MT-430872-415	A1913	Hex. Screw M12x45
27	2	9910646693005	G1320.4	Split Cotter Pin for Safety Valve	MT-430405-P2364	S1320.4	Split cotter pin A2.5x28
28	11	9910383470001	G1221	Special Bolt (For Inner & Outer Insulating Ring)	AG-546084-P1	S1221	Special Bolt (For Inner & Outer Insulating Ring)
29	22	9919000251001	G1220	Spring bronze washer-M6	MT-430190-P116	S1220	Belleville Spring Washer
30	10	9919000222001	G1532	Shim Washer	HAMT-405170-P6	S1532	Washer (For Contact Roller)
31	12	9910646796014	G2607	Spring Washer M8	SWT-435227-P1	S2607	Spring Washer B8
32	6	9910646795076	G2414	Spring Washer M12	MT-430197-P618	S2414	Spring Washer B12
33	12	9910646720073	G2511	Split Cotter Pin 2x20	MT-430405-P2211	S2511	Split Cotter Pin 2x20
34	12	9910647265002	G2516	Washer	HAGT-443523-P1	S2516	Washer
35	12	9910646796025	G2408/G2532	Hex. Skt. Dd. Screw M6x20	MT-430956-P2007	S2408/S2532	Hex. socket hd. Screw M6x20
36	48	9910646796012	G2406	Hex Socket Hd cap Screw M6x30	MT-430956-P2009	S2406	Hex socket hd cap screw M6x30
37	72	9919000150008	G2407	Cu Gasket 6.5/11.2x1	MT-430152-P11	S2407	Cu Gasket 6.5/11.2x1
38	3	9910383451065	G1411/G1615/G1522	Circlip A25	MT-430201-P25	S1411/S1615/S1522	Circlip A25

Sr. No.	Qty.	GANZ Type M/s AAL Make			BT type M/s REPL Make		
		Drg. No.	Item No.	Description	Drg. No.	Part No.	Description
39	09	9919000150009	G2145/ G2161	Gasket	MT-430152-P23	S2145/S2161	Cu Gasket 14/20x1.6
40	100	9919000250013	G1109/G1112/ G1204/G1305/ G1403/G1603/ G2117/G2134/ M2109	Disc Washer-M10	MT-430151-P26	S1109/S1112/ S1204/S1305/ S1403/S1603/ S2117/S2134/ A2109	Belleville spring washer 11/22
41	30	9919000250011	G1460/G1464/ G1611/G1614/ G2127/G2182/ M1907/M1936/	Disc Washer-M8	MT-430151-P23	S1460/S1464/ S1611/S1614/ S2127/S2182/ A1907/A1936/	Belleville spring washer 8.4/18
42	5	9919000150003	G3938a	Gasket dia 20.8/28x1 for Air Pressure Regulator	MT-430152-P33	S3938	Gasket Ø20.8/28x1 (For Air Pressure Regulator)
43	2	9910646780051	M1914a	Helical Spring lock washer M12	MT-430151-P28	A1914	Belleville spring washer 14/28
44	12	9910646720027	G2532	Hex. Socket Hd. Screw M6x20	MT-430956-P2007	S2532	Hex. socket hd. Screw M6x20
45	1	9919000180003	G3290.6	Internal circlip I35	MT-430202-P35	S3290.6	Internal circlip I35
46	12	9910646720066	G2539	Washer	HAGT-443523-P2	S2539	Washer
47	2	9910646756059	2113	External Circlip A24	MT-430201-P24	A2113	External Circlip A24
Total- 47							