Maintenance Schedule of Electrically Operated Points

Periodicity	Schedule Code
Fortnightly	EP1
Monthly	EP1,EP2
Quarterly	EP1,EP2, EP3, EP4
Half Yearly	EP4, EP5
Yearly	EP4,EP5

Schedule Code: EP1

Periodicity: Technician(Signal): Fortnightly Sectional SSE/JE(Signal): Monthly SSE (Signal)/Incharge: Quarterly

S.No.	Check the following:	А	CTION
1	The machine for tightness and free from rust & dirt. Cleaning, graphite/oiling of slide chairs. Lubrication of slide chairs and assembly up to 3 sleepers from the toe of switch by S&T staff.	Done	Not Done
2	Checking of Point Gear Assembly, slides, rollers & pins. Ensure that roller is free from wear and tear and falls freely on control and lift out disc.	Done	Not Done
3	Tightening of all nuts, check nuts & bolts, lock nuts holding the detector slides & lock slides with lugs and condition of split pins to be checked.	Done	Not Done
4	The Lubrication / Greasing of all gears and bearings, cleanliness & smoothness of commutator, checking contacts for freedom from pitting and proper adjustment.	Done	Not Done
5	Visual checks of Points insulations and stretcher bars not rubbing with any fixture.	ОК	Not OK
6	The contacts for proper adjustment contact pressure& free from pitting. Wires are neatly dressed & clear of all moving part. Ensure they do not get trapped in the lid when closed.	ОК	Not OK
7	All the bridge contacts make & break at the same time.	ОК	Not OK
8	The setting of switch for having required amount of spring action.	ОК	Not OK
9	Obstruction test of points with 5 mm test piece (to be kept at 150 mm from the toe of the switch) to ensure that point cannot be locked, detection contacts shall not make & friction clutch should also slip. However Detection contacts shall make with obstruction of 1.6 mm test piece (to be kept at 150 mm from the toe of the switch)	ОК	Not OK
10	Also ensure that both sleepers are well packed & Ground connection rods are free from ballast.	ОК	Not OK
11	Checked the insulation of Gauge tie plate, all stretcher bars, P/D brackets & driving lug and replaced if found damaged/broken.	ОК	Not OK

Schedule Code: EP2

Periodicity: Signal Technician: Monthly (to be done by ESM in the presence of SSE/JE)
Sectional SSE/JE(Signal): Monthly SSE(Signal)/Incharge: Quarterly

	and rev	erse opera	oper ation	ratio n an	on. C d fric	urre	ent n clu	reqi ıtch	uired shall	to o slip	pera withi	te th in thi	ie m is rai	achi nge.	ne ir Rep	n eithe	er direc	tion sh	all be :	1.5 to 2	n for norma times of it veen norma	s		
		Parameters to be Recorded																						
1	दिनांक Date	परिचालन वोल्टज, operating Voltage (>100 Volts)		(>100 Volts) ৰাঘা বীল্ট্ৰ obstruction voltage (>80 volts)		डिटेक्शन वोल्टेज Detection Voltage (>24 Volts)		सामान्य कार्यकारी धारा Normal Working Current	(1.5 - 2.5 Amp.)	9ाथ। / ।रलाप•। थार। obstructure/Slipping Current (3-5 Amp.)	अवरोघ परीक्षण obstructure Test (3.25 mm)	odstructure lest (3.25 mm)		(N to R) 111 देख Go Test	(1.6 mm rail safe test)	परिचालन समय Operating Time (4-5 Seconds)	अवरोध परीक्षण के दौरान परिचालन समय (>10 सेकंड्स)	फ्रिक्शन क्लच स्लिप कर रहा है या नहीं	ट्रैक लॉकिंग टेस्ट Track Locking Test (0.5 ओम के प्रतिरोध से)	निरीक्षण/ अनुरक्षण का रण	Signature			
		(Nto R)	(RtoN)	(NtoR)	(RtoN)	(NtoR)	(RtoN)	(NtoR)	(RtoN)			(R to N)		(Nto R)	(RtoN)	परिचालन समय ((4-5 Seconds)	अवरोध परीक्षण के दं समय (>10 सेकंड्स)	फ़िक्शन क्ल नहीं	ट्रैक लॉकिंग (0.5 ओम के	रिमार्क एवं निरीष्ट संक्षिप्त विवरण	हस्ताक्षर Sign			
		<u> </u>																						
2	Checkin	g of f	eed	disc	conn	ecti	on t	ime	unde	r ob	struc	tion	is no	ot les	ss th	an 10 :	Second	S.				Do	ne	Not Done
3	Ensure I	Hose	pipe	/GI	pipe	in {	good	d co	nditio	n ar	d wi	thou	t ga	ps/a	cces	S.						С	K	Not OK
4	Check N	1S pir	ns of	Swi	itch I	Exte	ensio	on p	iece/	P' b	acke	et for	any	rib '	form	ation	or exce	ssive w	ear.			C	K	Not OK
5	In case of Clamp type point machine, Lubricate the following moving parts of the clamp lock.																							
		(a)	Stoc	k ra	il bra	acke	et gr	oov	e.													Do	ne	Not Done
		(b)	Mov	/ing	part	of	tong	gue	rail ar	ıd lo	ck ar	m as	sem	bly.								Do	ne	Not Done
		(c)	Betv	wee	n ma	achi	ine c	of lo	ck ba	and	llock	arm	n ass	emb	ly							Do	ne	Not Done

Schedule Code: EP3

Periodicity: Sectional SSE/JE(Signal): Quarterly (Sectional SSE/JE & I/C SSE to carry out alternate inspections)

SSE(Signal)/Incharge: Quarterly (Sectional SSE/JE & I/C SSE to carry out alternateinspection)

Note: EP3 Schedule will be coverd during joint Point & Crossing Inspection with P-WAY

Schedule Code: EP4

Periodicity: Technician(Signal): Quarterly Sectional SSE/JE(Signal): Half-yearly SSE(Signal)/Incharge: Yearly

1	Greasing/Oiling of point machine and Checking of all grease nipples in position.	Done	Not Done
2	Oiling of Point Gear Assembly, slides, rollers & pins with medium grade axle oil IS 1628. Avoid overflowing.	Done	Not Done
3	Smoothness& cleaning of Commutator, carbon brushes.	Done	Not Done
4	Ensure painting of connecting rods is satisfactory.	OK	Not OK

Schedule Code: EP5

Periodicity: Sectional JSSE/JE(Signal): Half-yearly SSE(Signal)/Incharge: Yearly

1	Check for detector contacts and cleaning if required, control contacts, friction clutch. Ensure contact pressure of	ОК	Not OK	
	control and detection contact is adequate. Ensure Brass tip on finger contact is intact. Conduct obstruction test.	O.K	1100 010	
2	Visual check of brass strips provided between detector slides, without removing them.	OK	Not OK	
3	Checking of contact, connections and its effectiveness during power operation points.	OK	Not OK	
4	Working of point using crank handle shall also be checked. It shall not be possible to insert Crank Handle without	Done	Not Done	
	assigned Key. Interlocking with signals shall be checked	Done	Not Done	
5	Checking of point motor insulation, cable and wire insulation (by 100 V Megger).	Done	Not Done	
6	Testing of point tail cable from K Rack in N & R position of point with 100 V megger.	Done	Not Done	