SYLLABUS FOR JE/TRD TEST IN TRACTION DISTRIBUTION ORGANISATION

I. OHE:

- 1. Different systems of OHE
- 2. Brief history of electrical Traction on Indian Railways
- General supply and feeding arrangement Sectioning arrangements, basic principles of sectioning.
- Determination of copper section Seg-tension in conductors Temperature effects-Span lengths wind pressure - Blow off stagger - factors effecting the stagger
- S. OHE in curved tracks versine super elevation limitations
- Schedule of dimensions- Basic principles of checking the OHE lay out plans-Survey pre-sagging plans
- 7. Types of overlaps- Jumpers- Droppers etc.
- 8. Cantilever assembly- ABCD dimensions and other pertaining calculations
- Regulations OHE- Advantages Anti creep limitations for tension lines mechanical advantages - Y,Z measurements pulley block type and winch type ATD's
- Type of wiring in turn outs-crossings-crossovers. Section insulators erection assembly details - adjustments
- 11. Types of OHE termination and anchoring types of neutral section and their usage.
- 12. Different types of supports Masts portals Head spans Multiple structure Loadings of masts Bonding movements.
- 13. Electrical clearances Horizontal, vertical in on polluted areas for long time duration and short time duration. Examples - over dimensional consignments, precautions pertaining to movements of ODCs.
- 14. Attention towards breakdowns accidents, relief train particulars, Tower car particulars, wring train composition movements of tower car, motor trolley, caution orders etc.
- 15. Types of power blocks, emergency, local shadow, pre-arranged longitudinal protection, cross protection dead section entry of locomotives.
- 16. Bonding earthing of structures study of bonding and earthing code

- 17. Employment schedules Foundation charts Pegging plans layout plans, SEDs-Tensioning charts - Erection of OHE marking foundations Erection-SPEs selection - Cantilever section – wing adjustments - pre-commissioning test - commissioning.
- 18. OHE material -85 and IS sections conductors Tin bronze fittingsaluminium bronze fittings- insulators-stores collection and inspection and indenting-testing
- 19. Maintenance of log sheets Control charts blocks issue of PTW cancellation duties of TPC localizing the faults emergency manning of posts coordination with other departments.
- 20. OHE maintenance necessity of maintenance -schedule as per ACTM-accidents- breakdowns thefts restoration- registers to be maintained pollution and special checks joint investigation with other departments-contact wire and current collection tests- Analysis of failures, Special maintenance instructions, TI & MI.
- 21. Safe working rules- G&SR relating to tower car movement and motor trolley movements – station working rules- safety rules -IE rules -JE act - Induction effects.
- 22. Various types of tower cars- their operation, maintenance and common failures..
- 23. Special maintenance instructions, TI and MI.
- 24. Power Line Crossings- Rules and regulations.

II. Power Supply Installations (PSI)

- Layout of a grid sub-station spacing between two sub-stations. Traction
 Transformers details, various types of control post equipment details,
 circuit breakers- Interrupters and their working.
- 2. Earthing of Sub-Stations Rules and regulations to follow.
- Protective arrangement for feeders for transformers against lightening, various types of relays like Electron Magnetic, Static and Numerical Type with their merits and demerits- details of testing.
- 4. Current transformers potential transformers LT auxiliary transformers-Transformers oil properties and collection of oil samples - filtration - switch.
- Maximum demand contract demands load factors diversity factors tariff etc.
- 6. Special maintenance instructions, TI & MI.
- 7. Electrical fires.

III. Remote Control Equipments

- Different makes of remote control equipment's in use on Indian Railways-Transmission of Telecommands - different components of SRC equipment -Function of repeaters - Allocation of Channel frequency - Grouping of switching stations-Reception of Telecommands at controlled posts - Display of indications of mimic panel - power block - sophisticated measuring instructions used in RC maintenance, schedules of RC equipment's -Technique of soldering.
 - 2. Special maintenance instructions, TI & MI.
 - 3. Working of SCADA, specifications, testing equipments like OLIVER'G. Thermo vision camera, CB Analyser, LA's, leakage current monitoring, TAN Delta Test Kit and other standards etc.

IV Official language policy.

(P.Gulwanth singh)
ADEE/TRD/HYB
For Sr.DEE/Traction/HYB

सहार्क भारत । इं निवर

Assistant Divisional Electrical Engineer/TRD हैदरादाद मंग्रल, द.म. रेलवे Hyderabad Division, S.C. Railway

सिकंदराबाद. SECUNDERABAD.

			uestion bank for JE LD		l .	1
S.No.	Question Yard line interrupter is denoted by B.S. i.e.	Option 1	Option 2	Option 3	Option 4	Answer Proglem Ciding
1	rard line interrupter is denoted by B.S. i.e.	Bus Switch Commissioner of Rail	Breaker Switch Commissioner of	Breaker Siding Chairman of Rail	Blocking Siding Commissioner of Rail	Breaker Siding Commissioner of Rail Safety
2	Expand CRS?	Security Security	Railway Staff	Security	Safety	Commissioner of Kall Safety
3	Expand RRI?	Route Relay Interface	Rail Relay Interlocking	Route Relay	Rail Relay Interface	Route Relay interlocking
	Expand RKM?	Rail Kilo Metre	Railway Kilo Metre	Route Kilo Metre	Road Kilo Metre	Route Kilo Metre
5	Expand MS?	Medium Steel	Mild Steel	Modified Steel	Mould Steel	Mild Steel
	Emparia 1710.	Electrical inspector to	Electrical informer to	Engineering inspector to		Electrical inspector to the
6	Expand EIG?	the government	the government	the	general	government
	Ī			government	<i>S</i>	
7	Expand ATS?	Actual Toe Switch	Auxiliary Toe Switch	Additional Toe Switch	Auto Toe Switch	Actual Toe Switch
8	Expand SRJ?	Switch Rail Joint	Switch Rail Joist	Stock Rail Joist	Stock Rail Joint	Stock Rail Joint
9	Expand SEJ?	Switch Expansion Joist	Stock Rail Joint	Switch Expansion Joint	Stock Rail Joist	Switch Expansion Joint
10	Evened EUDI 2	Extended Highest Rail	Embedded Highest Rail	Existing Highest Rail	Equal Highest Rail	Existing Highest Rail Level
10	Expand EHRL?	Level	Level	Level	Level	
11	Expand MCC?	Maximum Cantilever	Multiple Cantilever	Modified Cantilever	None of the above	Multiple Cantilever Cross
	•	Cross arm	Cross arm	Cross arm		arm
12	Expand MRT?	Medical Relief Train	Modern Relief Train	Medical Relaxed Train	Modern Relaxed Train	Medical Relief Train
		Network of	Network of	Network of		Network of Electrification,
13	Expand NETRA?	Electrification, Testing	Electrification, Testing	Electrification,	Both a and b	Testing
		and Reporting	and Recording	Training and	0.100 11.1.1.11	and Recording
1.4	E LCD + DTO	Self Propelled Accident	Self Propelled		Self Propelled Auxiliary	Self Propelled Accident Relief
14	Expand SPART?	Relief Train	Automatic Relief Train	Relief	Relief Train	Train
	M			Train		
15	Maximum span length in unregulated Tramway OHE is	45 metres	36 metres	30 metres	22.5 metres	30 metres
16	Maximum span length in regulated Tramway	72 metres	61 metres	67.5 metres	63 metres	63 metres
	OHE is Difference between two consecutive span length					
17	should not be more than	25 m.	20 m.	18 m.	16 m.	18 m.
	In AC traction, maximum span length in					
18	unregulated OHE is	72 m.	67.5 m.	63 m.	61 m.	67.5 m.
	If unequal encumbrance is used between two					
19	OHE structures, maximum span	72 m.	67.5 m.	61 m.	63 m.	67.5 m.
	length will be	, 2	07.5 m	01 III.	00 m.	
20	Determination of maximum span length does					
20	not depend upon	Blow-off.	Versine of track.	Encumbrance	Gradient.	Gradient.
	In AC traction, maximum tension					
21	length(unregulated) may be permissible in	1500 m	1600 m	1800 m	2000 m	2000 m
	yard :-					
22	how many splices allowed in one tension	2	3	4	5	3
23	Maximum wind pressure is considered to design	100 1 6 /	1001-6/	150 16 /	110 16 /	150 16/
23	OHE structures for Red/heavy zone	180 kgf /sq. m.	160 kgf /sq. m.	150 kgf /sq. m.	110 kgf /sq. m.	150 kgf /sq. m.
24	Maximum wind pressure is considered to	112.5 kof /og m	125 Irof /oa m	100 5 kof /og m	102 kaf /aa m	112 5 kgf /gg .m
24	design OHE structures for Yellow/medium zone	112.5 kgf /sq. m.	125 kgf /sq. m.	109.5 kgf/sq. m.	102 kgf /sq. m.	112.5 kgf /sq. m.
25	Maximum wind pressure is considered to	112.5 kgf /sq. m.	105 kgf /sq. m.	75 kgf /sq. m.	99 kaf /aa m	75 kaf /sa m
23	design OHE structures for Green/light zone	112.5 kgi/sq. iii.	105 kgi /sq. iii.	73 Kgi /sq. III.	88 kgf /sq. m.	75 kgf /sq. m.
	What will be the sag (S) in the conductor?					
26	Where, L= span length, T= tension in	$S = WL^2/T$	S = WL/8T	$S = WL^2/8T$	$S = TL^2/8 W$	$S = WL^2/8T$
	theconductor & W = per meter weight of					
27	Rise of one side rail of same track to counteract					
27	centrifugal force, which	blow-off	versine	super elevation	gradient of track	super elevation
	developed during the motion of body on a					
28	Maximum deflection of mast at contact wire	80mm.	70mm.	60mm.	40mm.	60mm.
	level due to wind pressure, is allowed					
29	Maximum deflection of mast at top due to load	80mm.	70mm.	60mm.	40mm.	80mm.
	At tyme out atmostyre. It is appeared proceed to	To maintain nuonas	To accommodated	To maintain manna		To accommodated
30		* *	section insulator in	To maintain proper	None of the above.	section insulator in turnout
30	give encumbrance of 1.4 m to the turnout OHE & 0.9 m to the main line	tension.	turnout OHE	stagger.	None of the above.	OHE
	Maximum permissible relative gradient of		turnout OHE			VIII
31	contact wire in two adjacent span shall not	1.5 mm/m.	2 mm /m.	3 mm /m.	4 mm /m.	1.5 mm/m.
5.	be greater than on main lines				,	
	Maximum permissible relative gradient of					
32	contact wire in two adjacent span shall not	2 mm /m.	3 mm /m.	4 mm /m.	5 mm /m.	5 mm /m.
- '	be greater than on sidings	-				
22	where do we choose for encumbrance more	1in12 emergency cross	cross over on curved	1in 8 1/2 emergency	hoth lol 4 "	L-4L 1-1 - 1 11 1
33	than 1.4m?	over	track	cross over	both 'a' and 'b'	both 'a' and 'b'
34	Maximum clean span for "N" type portal	10-20 m	1 –10 m	20-30 m	30 –40 m	10-20 m
35	Maximum clean span for "O" type portal	10-20 m	20-30 m	30-40 m	40-50 m	20-30m
36	Maximum clean span for "R" type portal	20-30 m	30-40 m	40-50 m	50-55 m	30-40m
37	Dimension of "N" type portal angle is	65 x 65 x 6mm	70 x70 x 8mm	65 x 65 x 8mm	70 x 70 x8 mm	65 x 65 x 6mm
38	What is length of medium super mast?	3.25m	2.35m	1.35m	None of the above	2.35m
39	What is length of short super mast?	3.25m	2.35m	1.35m	None of the above	1.35m
40	Which type of ODC is permitted in electrifi	'A' class ODC	'B' class ODC	'C' class ODC	All of the above	All of the above
	In 25 kV AC traction, if clearance between	No speed restriction &	No speed restriction &	15 kmph speed & with		No speed restriction & with
41	ODC & contact wire is more than 250 mm	with power block	with out power block	out power block	None of the above	out power block
	than ODC permitted with					
42	The distance between adjacent splices should	300 m	200 m	100 m	250 m	300 m
	not more than					
43	Speed of tower wagon, when checking contact	20 km/h	10 km/h	15 km/h	25 km/h	10 km/h
	wire level & stagger					
44	Foot patrolling is carried out by the technician	One week	Two week	Three week	Four week	One week
	of the suburban sections once in					
45	Periodicity of contact wire ending clamp visual	one year	2 years	4.5 years	8 years	4.5 years
	inspection is	-		<u> </u>	<u> </u>	· ·
46	Periodicity of contact wire ending clamp	4 years	9 years in alternate POH	4.5 years	8 years	9 years in alternate POH
	replacement by new one is			 		
47	What is the Large span wire ending cone ID number?	1121	1118	1130	1280	1130
	What is shown in mutually contrast colour in a	Sector	Sub-Sector	Elementary Section	None of the above.	Elementary Section
48	OHE sectioning diagram?	Sector	Sub-SeciOI	Elementary Section	THORE OF THE AUDIVE.	Lacinemai y occuoii
49	one soononing diagram:	a) 1 3 4	2.4	123	all of these	all of these
49	2	a) 1,3,4	2,4	1,2,3	all of these.	all of these.

50	Max. Height of X-class Locomotive above rail level for a width	5225 mm	5550 mm	4470 mm	None of these	4470 mm
	of 305 mm on either side of centre of					
51	If length of any package before loading exceeds	13651 mm	13716 mm	13825 mm	None of these	13716 mm
31	it is to be treated as ODC or out of gauge					
	If width of any package before loading exceeds	2885 mm	2970 mm	2997 mm	None of these	2997 mm
52	it is to be treated as ODC or out of gauge load.					
	If top width of any package before loading	610 mm	622 mm	632 mm	None of these	610 mm
53	exceeds it is					
	to be treated as ODC or out of gauge If height at centre of any package before loading	2134 mm	2743 mm	2885 mm	None of these	2743 mm
54	exceeds					
	it is to be treated as ODC or If height at corner of any package before loading	2134 mm	2743 mm	2885 mm	None of these	2134 mm
55	exceeds	2131 11111	271311111	2003	Trone of these	220 1 11111
	it is to be treated as ODC or	Indian Railways Council	Indian Railways	Indian Railways Centre	Indian Railways Centre	Indian Railways Centre
56	IRCAMTECH	for Advanced Material	Committee for	for Advanced	for Advanced	for Advanced Maintenance
		Technology	Advanced Material	Material Technology	Maintenance	T 1' D 1
57	IRIEEN	Indian Railway Institute of Entertainment	Indian Railway Institute of Education	Indian Railway Institute of Electrical	Indian Railway Institute of Electrical	Indian Railway Institute of Electrical
		Engineer	Expert	Expert	Engineering,	Engineering, Nasik
58	MR Yard line isolator switch is denoted by	Material Resources	Minister of Railway	Modernization of	Member Railway	Minister of Railway
59	S.S. i.e	Sectioning Switch	Switch Main	Sectioning Siding	Switch Siding	Switch Siding
60	In AC traction, maximum span length for high wind pressure zone?	72 m.	67.5 m	63 m.	61 m.	63 m.
61	In AC traction, maximum span length for	72m	67.5 m.	63m	61m	67.5 m.
- 01	medium wind pressure zone?	Different material used		Where contact wire	V1III	
62	What do you mean by the term 'hard spot' in the contact wire?	Different material used at different material	Processing in which contact wires joined	Where contact wire wear is more	All of the above	Where contact wire wear is more
			together			
63	what is the presag of span carrying section insulator?	100mm	150mm	zero	50mm	zero
64	At level crossing gate, maximum height of rail	4.38m	4.67m	4.80m	4.45m	4.67m
	height gauge from the road surface is At level crossing gate, minimum distance of rail					
65	height gauge from the nearest track	4m	8m	10m	12m	8m
66	should be Droppers are made out of	Annealed copper	Hard drawn copper	Cadmium copper	Bronze	Hard drawn copper
67	In AC traction , how many droppers in 72 m	9 Droppers	10 Droppers	8Droppers	12Droppers	9 Droppers
	span length In AC traction, how many droppers in	**				
68	58.5 m span length	9droppers	8droppers	7droppers	6droppers	7droppers
69	What is the diameter of the rigid dropper?	5mm	7mm	12.24mm	None of above	12.24mm
	Condemning size of 107sa mm wire on loop/					
70	Condemning size of 107sq mm wire on loop/ yard line?	8.93mm	8.34mm	8.25mm	8.00mm	8.00mm
70 71	yard line? What is the length of Briddle wire in tramway	8.93mm 8.5m	8.34mm 8m	8.25mm 10.5m	8.00mm None of the above	8.00mm 8.5m
71 72	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire?	8.5m 15.2mm	8m 12.5mm	10.5m 14.7mm	None of the above 9.54mm	8.5m 12.5mm
71	yard line? What is the length of Briddle wire in tramway OHE? Mhat is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is	8.5m	8m	10.5m	None of the above	8.5m
71 72	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure	8.5m 15.2mm	8m 12.5mm	10.5m 14.7mm	None of the above 9.54mm	8.5m 12.5mm
71 72 73	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called	8.5m 15.2mm 229mm	8m 12.5mm 200mm	10.5m 14.7mm 152mm	None of the above 9.54mm 100mm	8.5m 12.5mm 100mm
71 72 73	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure	8.5m 15.2mm 229mm	8m 12.5mm 200mm	10.5m 14.7mm 152mm	None of the above 9.54mm 100mm	8.5m 12.5mm 100mm Blow-off
71 72 73 74 75	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track , contact stagger is 300 mm. at support, what will be the max. catenary stagger	8.5m 15.2mm 229mm Blow-off 300mm	8m 12.5mm 200mm Versine 200mm	10.5m 14.7mm 152mm Stagger	None of the above 9.54mm 100mm Super elevation Zero	8.5m 12.5mm 100mm Blow-off 200mm
71 72 73 74	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track , contact stagger is 300 mm. at support, what will be the max. catenary	8.5m 15.2mm 229mm Blow-off	8m 12.5mm 200mm Versine	10.5m 14.7mm 152mm Stagger	None of the above 9.54mm 100mm Super elevation	8.5m 12.5mm 100mm Blow-off
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71 72 73 74 75 76 77	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration
71 72 73 74 75 76 77 78	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 50-100mm	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm
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71 72 73 74 75 76 77 78 79 80 81	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track , contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout? what is the contact stagger for main line at crossing of wire in cross type turnout? what are the encumbrances provided for overlap	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 200mm	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 50-100mm 10 m towards turn out 300mm 300mm	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm
71 72 73 74 75 76 77 78 79 80 81 82 83	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout?	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 200mm 1400mm	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 50-100mm 10 m towards turn out 300mm 300mm 750mm	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm 150mm	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm both 'a' and 'c'	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm both 'a' and 'c'
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71 72 73 74 75 76 77 78 79 80 81 82 83	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout? what is the contact stagger for main line at crossing of wire in cross type turnout? what are the encumbrances provided for overlap type turnout? At section insulator location, encumbrance	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 200mm 1400mm	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 50-100mm 10 m towards turn out 300mm 300mm 750mm	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm 150mm	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm both 'a' and 'c'	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm both 'a' and 'c'
71 72 73 74 75 76 77 78 79 80 81 82 83	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout? what is the contact stagger for main line at crossing of wire in cross type turnout? what are the encumbrances provided for overlap type turnout? At section insulator location, encumbrance should not be less than Minimum clearance between section insulator assembly and adjacent track is Section insulator works like an insulated overlap	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 1400mm 152 mm 5.3 m Can be negotiated only	8m 12.5mm 200mm Versine 200mm 100mm 100mm Mass x velocity 100mm 50-100mm 10 m towards turn out 300mm 300mm 300mm 350mm 550mm 320 mm 5 m Can be negotiated only	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm 150mm 450 mm 4.751 m Can be negotiated at	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm 500 mm both 'a' and 'c' 600 mm	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm both 'a' and 'c' 450 mm 4.725 m Can be negotiated only at low
71 72 73 74 75 76 77 78 79 80 81 82 83 84	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout? what is the contact stagger for main line at crossing of wire in cross type turnout? what are the encumbrances provided for overlap type turnout? At section insulator location, encumbrance should not be less than Minimum clearance between section insulator assembly and adjacent track is	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 1400mm 152 mm 5.3 m	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 50-100mm 10 m towards turn out 300mm 300mm 750mm 320 mm 5 m	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm 150mm 900mm 450 mm 4.751 m	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm both 'a' and 'c' 600 mm 4.725 m	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm both 'a' and 'c' 450 mm 4.725 m
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71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout? what is the contact stagger for main line at crossing of wire in cross type turnout? At section insulator location, encumbrance should not be less than Minimum clearance between section insulator assembly and adjacent track is Section insulator works like an insulated overlap with a major difference Track separations of section insulator when free ends of runners towards center of the turnout? Track separations of section insulator when free ends of runners away from center turnout? Horizontal clearance between two runners of ac section insulator is How many "C" jumpers are used in 1500 m tension length. Among three, one is provided at anti-creep point where other two	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 1400mm 152 mm 5.3 m Can be negotiated only at low speed 1.72 m 1.72 m 500 mm 2 near anticreep location 4.5 m	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 10 m towards turn out 300mm 300mm 350mm 320 mm 5 m Can be negotiated only at high speed 1.92 m 1.65 m 460 mm 3 between 2nd & 3rd dropper 5.6 m	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm 150mm 450 mm 4.751 m Can be negotiated at normal speed 1.65 m 1.52 m 320 mm 6 adjacent span length of anticreep location 6.75 m	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm both 'a' and 'c' 600 mm 4.725 m None of the above 1.46 m 1.45 m 200 mm 5 between ATD &	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm both 'a' and 'c' 450 mm 4.725 m Can be negotiated only at low speed 1.65 m 1.45 m 460 mm 3 between ATD & anticreep location 5.6 m
71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout? what is the contact stagger for main line at crossing of wire in cross type turnout? At section insulator location, encumbrance should not be less than Minimum clearance between section insulator assembly and adjacent track is Section insulator works like an insulated overlap with a major difference Track separations of section insulator when free ends of runners towards center of the turnout? Track separations of section insulator when free ends of runners towards center of the turnout? Track separations of section insulator when free ends of runners away from center turnout? Track separations of section insulator when free ends of runners away from center turnout? Horizontal clearance between two runners of ac section insulator is How many "C" jumpers are used in 1500 m tension length. Among three, one is provided at anti-creep point where other two "C" jumper's are provided? Distance of "C" jumper's from the nearest mast "F" jumpers is provided in both anchoring span	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 1400mm 152 mm 5.3 m Can be negotiated only at low speed 1.72 m 1.72 m 500 mm 2 near anticreep location 4.5 m Catenary & contact wire	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 50-100mm 10 m towards turn out 300mm 300mm 350mm 750mm 320 mm 5 m Can be negotiated only at high speed 1.92 m 1.65 m 460 mm 3 between 2nd & 3rd dropper 5.6 m OOR (out of run) OHE	10.5m 14.7mm 152mm Stagger 100mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm 150mm 900mm 4.751 m Can be negotiated at normal speed 1.65 m 1.52 m 320 mm 6 adjacent span length of anticreep location 6.75 m Catenary & contact wire	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm both 'a' and 'c' 600 mm 4.725 m None of the above 1.46 m 1.45 m 200 mm 5 between ATD & anticreep location 9 m	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm both 'a' and 'c' 450 mm 4.725 m Can be negotiated only at low speed 1.65 m 1.45 m 460 mm 3 between ATD & anticreep location 5.6 m OOR (out of run) OHE &
71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91	yard line? What is the length of Briddle wire in tramway OHE? What is the diameter of the Anti-creep wire? Maximum stagger is allowed at mid span is The displacement of contact wire from its original position due to wind pressure across the track is called On curved track, contact stagger is 300 mm. at support, what will be the max. catenary stagger What is the mid span stagger for tangent track? Centrifugal force (P) is equal to what is the relative stagger of multi cantilever structure? What is the range of relative stagger in OHE The height of cross over contact wire should be maintained 50 mm above from main what is the contact stagger for turnout line for cross type turnout? what is the contact stagger for main line at crossing of wire in cross type turnout? At section insulator location, encumbrance should not be less than Minimum clearance between section insulator assembly and adjacent track is Section insulator works like an insulated overlap with a major difference Track separations of section insulator when free ends of runners towards center of the turnout? Horizontal clearance between two runners of ac section insulator is How many "C" jumpers are used in 1500 m tension length tension length. Among three, one is provided at anti-creep point where other two "C" jumper's are provided? Distance of "C" jumper's from the nearest mast	8.5m 15.2mm 229mm Blow-off 300mm zero Mass x acceleration 200mm 100-200mm 5 m towards turn out 200mm 1400mm 152 mm 5.3 m Can be negotiated only at low speed 1.72 m 1.72 m 500 mm 2 near anticreep location 4.5 m	8m 12.5mm 200mm Versine 200mm 100mm Mass x velocity 100mm 10 m towards turn out 300mm 300mm 350mm 320 mm 5 m Can be negotiated only at high speed 1.92 m 1.65 m 460 mm 3 between 2nd & 3rd dropper 5.6 m	10.5m 14.7mm 152mm Stagger 100mm 200mm Weight x acceleration zero 0-200mm 15 m towards turn out 400mm 150mm 450 mm 4.751 m Can be negotiated at normal speed 1.65 m 1.52 m 320 mm 6 adjacent span length of anticreep location 6.75 m	None of the above 9.54mm 100mm Super elevation Zero 400mm Velocity x acceleration none of the above 100-300mm 20 m towards turn out 500 mm both 'a' and 'c' 600 mm 4.725 m None of the above 1.46 m 1.45 m 200 mm 5 between ATD & anticreep location	8.5m 12.5mm 100mm Blow-off 200mm zero Mass x acceleration zero 0-200mm 10 m towards turn out 300mm 150mm both 'a' and 'c' 450 mm 4.725 m Can be negotiated only at low speed 1.65 m 1.45 m 460 mm 3 between ATD & anticreep location 5.6 m

94	"F" jumpers is also called	out in immor	continuity inmeas	flavible inmor	notential canaliza-	notantial aqualizar
94		cut in jumper To prevent open the	continuity jumper To avoid panto	flexible jumper To avoid hard spot in	potential equalizer To provide un	To prevent open the
95	"C" jumper are connected in the direction of traffic with the free end facing due to	strands of jumper by air pressure which exerted	entanglement with jumper	contact wire	interrupted path for pantograph	strands of jumper by air pressure which exerted
96	from the lug due to improper soldering. To overcoming this problem, it has been decided to provide additional piece of	50 cm	80 cm	100 cm	120 cm	80 cm
97	What is the allowed separation between two C jumper in unregulated OHE/	350 m	400m	100 m	None of the above	400m
98	Cross section area of cross feeder jumper is	50 sq. mm	97 sq. mm	105 sq. mm	107 sq. mm	105 sq. mm
99	Cross section area of anti theft jumper is	50 sq. mm	97 sq. mm	105 sq. mm	107 sq. m	50 sq. mm
100	"G" jumpers is also called	cut in jumper To avoid contamination	continuity jumper To hold the tubes in	flexible jumper To Cantilever assembly	potential equalizer To avoid transferring	continuity jumper To avoid contamination due
101	Cantilever assembly, both insulators are located nearer to the mast	due to steam & diesel locomotives	proper tension	is swiveling type	the weights on OHE	to steam & diesel locomotives
102	The arrangement of the cantilever assembly does not depend upon the	Height of contact wire	Super elevation	Encumbrance	None of the above.	None of the above.
103	The tubes of the cantilever assembly are made out of	Aluminum bronze	Aluminum	Electrolyte copper	Galvanized steel	Galvanized steel
104	bracket tube beyond the centre of the catenary suspension bracket for future adjustment?(As per RDSO letter	400 mm to 300 mm	400 mm to 100 mm	150 mm to 200 mm	50 mm to 100 mm	150 mm to 200 mm
105	minimum distance between register arm hook clamp & top of the bracket tube insulator	100 mm	150 mm	200 mm	300 mm	100 mm
106	projection of register arm beyond the steady arm clamp should be (As per RDSO In cantilever assembly, distance between	50 mm to 300 mm	150 mm to 200 mm	150mm to 400 mm	250 mm to 500 mm	150 mm to 200 mm
107	register arm tube & anti wind clamp strap should be	3 to 5 cm	5 to 9 cm	9 to 12.5 cm	15 to18 cm	3 to 5 cm
108	Why gap should be required between register arm tube & anti wind clamp strap	To avoid hard spot	To hold the register arm	To maintain proper height & stagger	To hold steady arm	To avoid hard spot
109	What is the material of normal steady arm (i.e. BFB section) ?	Aluminum alloy	Aluminum bronze	G.I.	Cadmium copper	Aluminum alloy
110	What is the minimum steady clearance on loop line?	180 mm	250 mm	160 mm	100mm	180 mm
111	What is allowed variation from the existing rail level?	20cm	25cm	30 cm	60 cm	30 cm
112	Tie rod insulator is used in isolator switch assembly in between	Operating Rod & Moving blade	Operating Rod & Fixed contact	Switch body & fixed contact	Switch body and moving contact	Operating Rod & Moving blade
113	ODC movement should be accompanied by OHE staff, when clearance between ODC &contact wire is less than	390 mm	340 mm	320 mm	250 mm	250 mm
114	If the gross clearance between ODC & fixed structure is 228.6 and above, than ODC is called	'A' class ODC	'B' class ODC	'C' class ODC	All of the above	'A' class ODC
115	If the gross clearance between ODC & fixed structure is in between 228.6 mm to 152.4 mm, than ODC is called	'A' class ODC	'B' class ODC	'C' class ODC	All of the above	'B' class ODC
116	If the gross clearance between ODC & fixed structure is in between 152.4 mm to 76.2 mm,than ODC is called	'A' class ODC	'B' class ODC	'C' class ODC	All of the above	'C' class ODC
117	What will be the "regulating ratio" of winch type Auto Tensioning Device (ATD)?	01:01	2:1	3:1	5:1	5:1
118	ATD & its parameters is design for the standard temperature	4° C	16° C	35 ° C	65 °C	35 ° C
1 119	In Winch type ATD, the measurement 'Y' is the distance between	Rail level & bottom of the counter weight	Top of muff & bottom of the counter weight	Centre of fixed pulley & top of the counter weight	None of the above	Top of muff & bottom of the counter weight
120	In 3- pulley block ATD, the measurement 'Y' is the distance between	Rail level & bottom of the counter weight	Top of muff & bottom of the counter weight	Centre of fixed pulley & top of the counter weight	None of the above	Top of muff & bottom of the counter weight
121	What is the tension given to the catenary wire of conventional regulated OHE?	1700 kgs	1000 kgs	2000 kgs	1250 kgs	1000 kgs
122	What is the tension given to the contact wire of conventional regulated OHE?	1700 kgs	1300 kgs	2000 kgs	1000 kgs	1000 kgs
123	Check the condition of SS wire rope through magnifying glass for	Loose wire/strands and bird caging	Broken wire/strands	Rusting, pitting/corrosion	All of the above	All of the above
124	What is the diameter of SS rope used for ATD?	15.2 mm	12.5mm	8.5 mm	9.54 mm	8.5 mm
125	Places, where sparking takes place during current collection test .What may be the reason of sparking on account of OHE?	Kink in OHE	Improper gradient of contact wire	Improper tension in OHE conductors	All of the above	All of the above
126	How current collection test is carried out with live OHE ?	A mirror is fixed in rear cab of a loco & get reflection of the panto &	8- wheeler tower wagon with equipped such facilities	Recording car	All of the above	All of the above
127	The current collection test is carried out by the depot in-charge over his entire section within	One month	Three months	Six months	One year	Three months
128	The current collection test is carried out by the AEE/TRD over his entire section within	One month	Three months	Six months	One year	Six months
129	Object of the AOH is	At random checking	Parts should be as new as first installed	To rectify the defects ,which are developed during one year	All of the above	To rectify the defects ,which are developed during one year service
130	From any live part of the OHE, tree branches should not be nearer than	0.5 m	1 m	2 m	4 m	4 m
131	To check free movement of ATD, what weight is required for pulling counter weight	10 kgf	5 kgf	20 kgf	25 kgf	10 kgf
132	Foot patrolling is carried out by the technician of the section (Main Line) and yard once in	12 days	20 days	15 days	10 days	15 days
133	Foot patrolling is carried out by the JE/SE of the sections once in	Three month	Six month	Four month	Two month	Six month
134	PG clamps (8no.) from 'G' jumper location can be reused during POH ?	Check, clean & reused at same location	Reused at other location after checks, clean in workshop and	Reused after one year after checks, clean in workshop	Can not be reused	Reused at other location after checks, clean in workshop and OHE

150 Section of the property of the propert							•
1-37 Sommon supplications personned or amain lared 2-50 m 2-50 m 50 m	135	Normal implantation on main line.	2.21 M		2.40M	2.80M	2.80M
20 No. Security	136		2.36 (critical)	2.6	2.3	None of these	2.36 (critical)
20 No. Security	127	Minimum implantation permitted at main line (2.36 m	4.75 m	2.50 m	None of these	2.50 m
March 1994 1995	137						
1.53 1.50			200	100 mm	90	None of these	100
Sept. Sept	120		200 mm	100 11111	80 11111	None of these	100 11111
1939 West a first care of types. A copy game. 200 cm. 200	138	•					
100 100	139	What is the size of type A drop arm	200 x 300 mm	250 x 350 mm	250 x 300 mm	None of these	200 x 300 mm
100 100			220 mm	250 mm	300 mm	None of these	250 mm
141 See deather constraint merical extensives 20 mm 100 mm 20 mm None of these 20 mm 100 mm 20 mm None of these 20 mm 100 mm 20 mm None of these 20 mm 100 mm 20 mm None of these 20 mm 100 mm 20 mm	140		220	200 11111	300 11111	Trone of these	200 11111
14.5	1.41		220	100	200	NT C.I	200
141 Seagle of Chimmer Sea Sea Sea 100 None of these 200 mm Sea Sea 100 None of these 200 mm Sea Sea 100 None of these 200 mm Sea Sea Sea 100 None of these 200 mm Sea							
14.5	142						
Some Common Some	143	Long duration maximum vertical clearance	290 mm	350 mm	250 mm	None of these	250 mm
Some Common Some	144	Length of G jumper	3.5 mtr	3.8m	4.0m	None of these	4.0m
15 15 15 16 16 17 18 18 18 18 18 18 18							
Fig. 84.0014 Section	1.45		500 IIIII	250 11111	200 11111	Trone of these	200 11111
140	143						
190							
1.5 Package of Col primery from definition 1.5 Package of Col primery from definition 1.5 Package of Col primery from the C	1/16	Minimum vertical clearance from OHE to	380 mm	320 mm	220 mm	None of these	None of these
4.5 m 1.5	140	earthed structure for short duration					
4.5 m 1.5	147	Distance of G jumper from obligatory mast	4 0 M	5.2 M	5.6 M	None of these	5.6 M
140 Nomal implication of the State of State 140 m 157 m 158 m 150							
150 Non-content applied miles F 4.6 m 4.75 m 4.95 m None of these 4.75 m 1.5							
151 152 Max. remotine plany of unergolated OHE 1.5 times 1.7 times							
1.5 Search of Personner							
1.5 1.5	151	The length of conventional neutral section is	41.5 M	41.0 M	40.0 M	None of these	41.0 M
1.5 1.5	152	Max, tension length of unregulated OHE	1.6 kms	1.7 kms	1.8 kms	2 kms	2 kms
154 1.5 mm 1.5 mm 1.5 mm 1.2 mm 1.5 mm 1.2 mm 1.5 mm 1.2 mm 1.5 mm 1.2 mm 1.3 mm 1.5 mm 1.2 mm 1.5 mm 1.2 mm 1.3 mm 1.3 mm 1.5 mm 1.2 mm 1.5 mm 1.2 mm 1.5 mm 1.2 mm 1.5 mm 1.2 mm 1.5 mm 1.5 mm 1.2 mm 1.5							
155 Das of new context view 10.45 mm 10.45 mm 10.55 mm 10.24 mm 50 mm							
A FO Obligatory mast, Deuton ML OHE 100 mm 70 mm 50 mm							
150 Montal the below TO	155						
OHR by 100 kg 111 kg 100 kg 111 kg 100 kg 110 kg None of these 1800 kg 1875 Normal Bestion in Kg, of Catenary wire 103 sg. mm 107 sg. mm 105 sg. mm 100 kg 110 kg mm 104 mm 110 kg mm 109 kg mm 100 kg mm 10	Ī		100 mm	70 mm	60 mm	50 mm	50 mm
OHR by 100 kg 111 kg 100 kg 111 kg 100 kg 110 kg None of these 1800 kg 1875 Normal Bestion in Kg, of Catenary wire 103 sg. mm 107 sg. mm 105 sg. mm 100 kg 110 kg mm 104 mm 110 kg mm 109 kg mm 100 kg mm 10	156				1	1	1
155 Cross section area of context wire 1000 kg 1111 kg 1001 kg None of three 1000 kg 1000	Ī					1	ĺ
158 Cross section area of large jumper wire 105 sq. mm 105 sq. mm 105 sq. mm 105 sq. mm 107 sq.	157		1000 kg	1111 kg	1001 kg	None of these	1000 kg
1595 Cross section area of contact wire 100 sq mm 100 sq m							
161 Maximum tension length for regulated GHE 1500 m 1400 m 1200 m None of these 200 mm							
100 100 m 1200 m 1200 m 1200 m 1200 m 1500 m 1500 m 1600 m 1200 m 1600 m 1500 m 1600	159						
100 100 m 1200 m 1200 m 1200 m 1200 m 1500 m 1500 m 1600 m 1200 m 1600 m 1500 m 1600	140	Min. clearance bet. Two OHEs at un insulated	150 mm	200 mm	350 mm	None of these	200 mm
161 Maximum tonion tension feepts for expellated CHE 150 m 1400 m 1200 m None of these 19 m 162 No. of strands of entainal year et et 19 33 m 163 No. of strands of entainal year et et 19 33 m 164 Distance of Adropper from support 2.25 mtr	100					1	ĺ
1615 No. of strands of candil impret wise 19 17 21 None of these 19 1616 No. of strands of small impret wise 19 2.55 mr 2.15 mr 2.25 mr 2.	161		1500 m	1400 m	1200 m	None of these	1500 m
164 Distance of Adropper from support 2.35 mtr 2.25 mtr							
1645 Distance of A dropped from support							
165 Normal implantation of obligators must at turn 2.50 M 3.0 M 3.5 M None of these 3.0 M 3.6 M None of these 3.0 M 3.6 M None of these 20% None of these 200 mm 200 mm 200 mm 200 mm 300 mm 400 mm 500 mm							
160 Discharge Rod cable to be replaced if 20% 10% 5% None of these 20% 10% None of these 200 mm 250 mm 300 mm 400 mm 500 mm 50	164	Distance of A dropper from support	2.35 mtr	2.15 mtr	2.45 mtr	2.25 mtr	2.25 mtr
166 Siege of Stands broken except is 20% 10% 5% None of these 20% None of these 300 mm 300 mm 300 mm 500	165	Normal implantation of obligatory mast at turn	2.50 M	3.0 M	3.5 M	None of these	3.0 M
160							
167 Discursed track, stages of cont, wire is 200 mm 250 mm 300 mm None of these 300 mm 400 mm 500 mm	166			/ /			/
160	177		200	250	200	N6-2	200
Detect No. OHE S Detect No. OHE S Mirs Mir	167						
Detween two OHEs 15 Mirs 2 Mirs 1.5 Mirs None of these 2 Mirs 170 Distance het Male & Female contact of solutor 171 Day of adjustable dropper of \$1\$ 4 mm 7 mm 5 mm 500 mm 500 mm 171 Day of adjustable dropper of \$1\$ 4 mm 7 mm 5 mm 500 mm 500 mm 171 Day of adjustable dropper of \$1\$ 4 mm 7 mm 5 mm 500 mm 500 mm 171 Day of adjustable dropper of \$1\$ 4 mm 7 mm 5 mm 500 mm 500 mm 500 mm 171 Day of adjustable dropper of \$1\$ 4 mm 7 mm 5 mm	169	At insulated over lap, the horizontal gap	200 mm	300 mm	400 mm	500 mm	500 mm
1679 Minimum working clearance from live OHE 3 Mrs 2 Mrs 1.5 Mrs None of these 2 Mrs 170 Distance bets Male & Femned contact of stools 300 mm 420 mm 430 mm 500	100	between two OHE is				1	ĺ
170 Data call with elements of St. 4 mm 7 mm 5 mm 500 mm 500 mm 500 mm 510	169		3 Mtrs	2 Mtrs	1.5 Mtrs	None of these	2 Mtrs
171 Dia of adjustable dropper of SI							
173 Minimum height of contact wire at level 4.5 m 6.0 m 5.50 m None of these 4.67 Mtrs Mtrs 4.67 Mtrs None of these 4.67 Mtrs A70 Mtrs 4.80 Mtrs 4.67 Mtrs None of these 4.67 Mtrs A70 Mtrs A80 Mtrs 4.67 Mtrs None of these 4.67 Mtrs A70 Mtrs A80 Mtrs A60 mtrs							
The height gauge erected at level crossing with 470 Mirs							
173 174 175	172						
above road level		The height gauge erected at level crossing with	4.70 Mtrs	4.80 Mtrs	4.67 Mtrs	None of these	4.67 Mtrs
The maximum distance between runners of section insulator Somm Som	173	clear height					
The maximum distance between runners of section insulator Somm Som		above road level					
175 Dia. of small dropper S. mm			460 mm	560 mm	440 mm	None of these	460 mm
175	174		400 IIIII	300 mm	440 111111	None of these	400 11111
The min. height of contact wire at aloo 5.8 M 5.6 M 5.55 M None of these 5.8 M					+		_
Inspection pit Insp	175						
Inspection pit Insp	176	The min. height of contact wire at loco	5.8 M	5.6 M	5.55 M	None of these	5.8 M
Tension in the conductors is taken by Tirfor Union screw Either (a) or (b) Dynamometer Either (a) or (b)	170	inspection pit					
Tension in the conductors is taken by Tirfor Union screw Either (a) or (b) Dynamometer Either (a) or (b)	177	Cross section area of catenary wire	67 sa mm	54.5 sa mm	62 sa mm	65 sa mm	65 sa mm
179							
180 What is the F jumper PG clamp ID number? 1030 1040 1070 1080 1030 1040 1050							
181 What is the G jumper PG clamp ID number? 1030 1040 1070 1080 1030 1030 182 Name the test that is done on ST, BT & 9Ton insulators prior to their use. 1000mm 1000mm 1000mm 760mm 1050mm 760mm 1050mm							
Name the test that is done on ST, BT & 9Ton insulators prior to their use. 183 Long Creepage distance is - 2000mm 1000mm 1050mm 760mm 1050mm							
Name the test that is done on ST, BT & 9Ton insulators prior to their use. 183 Long Creepage distance is - 2000mm 1000mm 1050mm 760mm 1050mm	181	What is the G jumper PG clamp ID number?	1030	1040	1070	1080	1030
183 Long Creepage distance is — 2000mm 1000mm 1050mm 1			Load test	IR test	PI test	No test	
183 Long Creepage distance is — 2000mm 1000mm 1050mm 760mm 1050mm 10	182						1
The Caution Board that must be displayed Caution OHE ahead is alive. Caution OHE ahead is alive. The elementary section supply is controlle CB BM Hand operated off load switch. POH None of the above. POH None of the above. POH S25 mm S42 mm 420 mm S25 mm S50	192		2000mm	1000mm	1050mm	760mm	1050
Caution Board applicable at Dead-End OHE Caution OHE ahead is alive.							
alive. BM	184						
The elementary section supply is controlle CB BM Hand operated off load switch. None of the above. POH None of the above. POH Start mm Start mm Start mm Start	195	Caution Board applicable at Dead-End OHE	Caution OHE ahead is	Restricted Clearance.	Electric Engine Stop	Unwired Turn-Out.	Electric Engine Stop
The elementary section supply is controlle CB BM Hand operated off load switch.	103		alive.	<u> </u>	<u> </u>	<u> </u>	<u>1 </u>
Switch S		The elementary section supply is controlle		BM	Hand operated off load	BX	Hand operated off load
Which schedule maintenance has a periodicity of four years.? AOH	186					1	
188 Length of 9-ton insulator is 500 mm 525 mm 542 mm 420 mm 525 mm 190 Length of stay tube insulator is 500 mm 525 mm 550 mm 420 mm 500 mm 191 Length of pedestal insulator is 500 mm 525 mm 550 mm 420 mm 500 mm 192 Length of tie rod insulator is 500 mm 525 mm 550 mm 420 mm 550 mm 193 Length of sectioning insulator is 500 mm 550 mm 500 mm 420 mm 550 mm 194 What do you understand by the low voltage? Upto 110 volt Upto 150 volt Upto 200 volt Upto 250 volt to 900 volt volt volt volt volt volt volt volt	 	Which schodule maintenance beautiful in	AOH	IOH		None of the at	
188 Length of 9-ton insulator is 500 mm 525 mm 542 mm 420 mm 542 mm 525 mm 190 Length of bracket tube insulator is 500 mm 525 mm 550 mm 420 mm 525 mm 550 mm 420 mm 420 mm 525 mm 550 mm 420 mm 420 mm 420 mm 420 mm 525 mm 550 mm 420 mm 420 mm 420 mm 420 mm 420 mm 550 mm 550 mm 420 mm 550 mm 550 mm 420 mm 550 mm 525 mm 500 mm 420 mm 500 mm 420 mm 500 mm 194 What do you understand by the low voltage ? Upto 110 volt Upto 150 volt Upto 200 volt Upto 250 volt Upto 250 volt Upto 250 volt Vol	187	1 3	AUH	IOH	run	ivone of the above.	PUH
189 Length of stay tube insulator is 500 mm 525 mm 550 mm 420 mm 500 mm 525 mm 550 mm 420 mm 500 mm 525 mm 550 mm 420 mm 420 mm 500 mm 525 mm 550 mm 420 mm 550 mm 420 mm 550 mm 192 Length of pedestal insulator is 500 mm 525 mm 550 mm 420 mm 550 mm 193 Length of sectioning insulator is 500 mm 525 mm 500 mm 420 mm 550 mm 194 What do you understand by the low voltage ? Upto 110 volt Upto 150 volt Upto 200 volt Upto 250 volt Upto 250 volt Upto 250 volt Volt volt Volt volt Volt volt Volt volt Volt volt Volt volt volt Volt V					ļ		1
189 Length of stay tube insulator is 500 mm 525 mm 550 mm 420 mm 500 mm 525 mm 550 mm 420 mm 500 mm 525 mm 550 mm 420 mm 420 mm 500 mm 525 mm 550 mm 420 mm 550 mm 420 mm 550 mm 192 Length of pedestal insulator is 500 mm 525 mm 550 mm 420 mm 550 mm 193 Length of sectioning insulator is 500 mm 525 mm 500 mm 420 mm 550 mm 194 What do you understand by the low voltage ? Upto 110 volt Upto 150 volt Upto 200 volt Upto 250 volt Upto 250 volt Upto 250 volt Volt volt Volt volt Volt volt Volt volt Volt volt Volt volt volt Volt V	188	Length of 9-ton insulator is	500 mm	525 mm	542 mm	420 mm	542 mm
190 Length of bracket tube insulator is 500 mm 525 mm 550 mm 420 mm 550 mm 525 mm 500 mm 420 mm 500 mm 42	189						
191 Length of pedestal insulator is 500 mm 550 mm 550 mm 420 mm 550 mm 550 mm 193 Length of tie rod insulator is 500 mm 550 mm 500 mm 420 mm 550 mm 550 mm 420 mm 550 mm 500 mm 500 mm 420 mm 550 mm 500 mm 500 mm 420 mm 550 mm 500							
192 Legth of tie rod insulator is 500 mm 550 mm 500mm 420 mm 550 mm 500mm 194							
193 Length of sectioning insulator is 500mm 525mm 500mm 420mm 500mm 194 What do you understand by the low voltage ? Upto 110 volt Upto 150 volt Upto 200 volt Upto 250 volt Upto 250 volt 195 What do you understand by the medium voltage ? Above 250 volt to 440 Above 250 volt to 650 volt volt volt volt volt volt 196 What do you understand by the high voltage ? Above 650 volt to 2.2 Above 650 volt to 11 Above 650 volt to 22 Above 650 volt to 33 Above 650 volt to 34 Above 650 volt to 35 Above 650 volt to 35 Above 650 volt to 35 Above 650 volt to 36 Above 650 volt to 37 Above 650 volt to 38 Above 650 volt to 650 Above 650 volt to 650 volt to 650 Above 650 volt t							
194 What do you understand by the low voltage ? Upto 110 volt Above 250 volt to 440 Above 250 volt to 650 volt volt volt volt volt volt volt volt							
What do you understand by the medium voltage ? What do you understand by the high voltage ? What do you understand by the high voltage ? What do you understand by the extra high voltage ? What do you understand by the extra high voltage ? What do you understand by the extra high voltage (EHV) ? Above 650 volt to 2.2 Above 650 volt to 2.2 Above 650 volt to 33 kV Above 34 kV Above 35 kV Above 35 kV Above 35 kV Above 35 kV Above 37 kV Above 37 kV Above 38 kV Above 48 coverally kerearing kerearing kerearing kerearing kere							
What do you understand by the medium voltage ? What do you understand by the high voltage ? What do you understand by the high voltage ? What do you understand by the extra high voltage ? What do you understand by the extra high voltage ? What do you understand by the extra high voltage (EHV) ? Above 650 volt to 2.2 Above 650 volt to 2.2 Above 650 volt to 33 kV Above 34 kV Above 35 kV Above 35 kV Above 35 kV Above 35 kV Above 37 kV Above 37 kV Above 38 kV Above 48 coverally kerearing kerearing kerearing kerearing kere	194	What do you understand by the low voltage?	Upto 110 volt	Upto 150 volt	Upto 200 volt	Upto 250 volt	Upto 250 volt
195 2 Volt							
196 What do you understand by the high voltage ? Above 650 volt to 2.2 Above 650 volt to 11 Above 650 volt to 22 Above 650 volt to 33 Above 650 volt to 32 Above 650 volt to 33 Above 650 volt to 33 Above 650 volt to 33 Above 650 volt to 32 Above 650 volt to 22 Above 650 volt to 32 Above 650 volt to 22 Above 650 vo	195	9					100 000 100
What do you understand by the extra high voltage (EHV)? On preventive measures to reduce the incidence of insulator flashover. In non polluted zone 'A', the periodicity of On preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of On preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of On preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of On preventive measures to reduce the incidence of insulator flashover. In light with AOH with AOH with AOH & before monsoon) Diameter of new 107sq mm wire is 16.36mm 12.24mm 10.55mm 8.25mm 12.24mm Ondemning size of 107sq mm wire on main 8.93mm 8.34mm 8.25mm 8.89mm 8.25mm	104	What do you undo					Above 650
voltage (EHV)? Above 33 kV Above 35 kV Above 36 kV Above 10 kV Ab	196		Above 050 voit to 2.2	Above 050 voit to 11	Above 050 voit to 22	Above 050 voit to 33	Anove one voit to 33 kV
voltage (EHV)? on preventive measures to reduce the incidence of insulator flashover. In non polluted zone 'A', the periodicity of on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of the periodicity of the polluted zone 'B', the periodicity of the periodicity of the polluted zone 'B', the periodicity of the	197		Above 132 kV	Above 66 kV	Above 110 kV	Above 33 kV	Above 33 kV
on preventive measures to reduce the incidence of insulator flashover. In non polluted zone 'A', the periodicity of on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of monsoon) 200 Diameter of new 107sq mm wire is 16.36mm 12.24mm 10.55mm 8.25mm 8.25mm 8.25mm 8.25mm 201 Condemning size of 107sq mm wire on main 8.93mm 8.34mm 8.25mm 8.25mm 8.89mm 8.25mm		voltage (EHV) ?	2100VC 134 KV	A AUDIC OU K V	2100VC 110 K V	A CC JVOC JJ KV	ABUVE 33 KV
198 of insulator flashover. In non polluted zone 'A', the periodicity of on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of one year (along with AOH and the polluted zone 'B', the periodicity of polluted zone 'B', the periodicity of polluted zone 'B', the periodicity of polluted zone of new 107sq mm wire is 16.36mm 12.24mm 10.55mm 8.25mm 12.24mm 12.24mm 12.24mm 8.25mm 8.25mm 8.25mm 8.25mm					Twice a year, once with		
polluted zone 'A', the periodicity of on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of 200 Diameter of new 107sq mm wire is 201 Condemning size of 107sq mm wire on main 202 Condemning size of 107sq mm wire on main 203 Diameter of new 107sq mm wire on main 204 Condemning size of 107sq mm wire on main 205 Diameter of new 107sq mm wire on main 206 Diameter of new 107sq mm wire on main 207 Condemning size of 107sq mm wire on main 208 Diameter of new 107sq mm wire on main 209 Diameter of new 107sq mm wire on main 200 Diameter of new 107sq mm wire on main 201 Condemning size of 107sq mm wire on main 202 Diameter of new 107sq mm wire on main 203 Diameter of new 107sq mm wire on main 204 Diameter of new 107sq mm wire on main 205 Diameter of new 107sq mm wire on main 206 Diameter of new 107sq mm wire on main 207 Diameter of new 107sq mm wire on main 208 Diameter of new 107sq mm wire on main 209 Diameter of new 107sq mm wire on main 200 Diameter of new 107sq mm wi	198		Cleaning not require	Along with AOH		Thrice in a year	Along with AOH
on preventive measures to reduce the incidence of insulator flashover. In light polluted zone 'B', the periodicity of 200 Diameter of new 107sq mm wire is 16.36mm 12.24mm 10.55mm 8.25mm 12.24mm 8.25mm 8.25mm 8.25mm 8.25mm	170		c.cuming not require	. none with AOH	71011	Imice in a year	mong with AOH
199 of insulator flashover. In light polluted zone 'B', the periodicity of Cleaning not require polluted zone 'B', the periodicity of Along with AOH with AOH with AOH & before monsoon) Thrice in a year with AOH & before monsoon) 200 Diameter of new 107sq mm wire is 16.36mm 12.24mm 10.55mm 8.25mm 12.24mm 201 Condemning size of 107sq mm wire on main 8.93mm 8.34mm 8.25mm 8.89mm 8.25mm	 			1	m · · ·		l
polluted zone 'B', the periodicity of monsoon) monsoon)	Ī					1	
polluted zone 'B', the periodicity of monsoon) monsoon)	199	of insulator flashover. In light	Cleaning not require	Along with AOH	with AOH & before	Thrice in a year	with AOH & before
200 Diameter of new 107sq mm wire is 16.36mm 12.24mm 10.55mm 8.25mm 12.24mm 201 Condemning size of 107sq mm wire on main 8.93mm 8.34mm 8.25mm 8.89mm 8.25mm	1			1		l	
201 Condemning size of 107sq mm wire on main 8.93mm 8.34mm 8.25mm 8.89mm 8.25mm	200		16 36mm	12.24mm		8 25mm	
202 Cross section area of CONTACT wire is 193sq mm 158sq mm 107sq mm 97sq mm 107sq mm							
	202	Cross section area of CONTACT wire is	193sq mm	158sq mm	107sq mm	9'/sq mm	107sq mm

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203	Cadmium copper is used in place of hard drawn	To increase tensile	To reduce the weight of	To increases current	None of above	To increase tensile strength of
204	copper for AC catenary wire, why? What is the normal spacing between droppers?	strength of catenary 6.75m	2.25m	carrying capacity 9m	None of above	catenary 9m
	The displacement of contact wire with respect to			Gradient of contact wire		İ
205	the pantograph axis is called	Implantation	Stagger of contact wire		Sag	Stagger of contact wire
206	In AC traction, maximum stagger of contact	380mm	300mm	229mm	200mm	300mm
200	wire on curved track is	Journa	Joonnin	22711111	20011111	Joonnin
207	In AC traction, maximum stagger of contact	380mm	300mm	229mm	200mm	200mm
	wire on tangent track is Contact wire is placed in zig- zag manner in	To avoid formation of	Uniform rubbing of	To avoid breakdown		
208	entire span length , why ?	groove on pantopan	pantopan strip within	due to formation of	All of the above	All of the above
	entile span length , why .	strip	current collection zone	groove in pantopan	I m or the thorte	The or the thore
209	Which factor affects the stagger of contact wire	Blow-off	Versine	Track slewing	All of the above	All of the above
210	Expand PTW?	Permit to Wait	Permit to work	Proceed to Work	both a and b	Permit to work
211	How much is the axel load of Mark IV Tower	2 Tones	10 Tones	16 Tones	14 Tones	16 Tones
212	How much is the axel load of DHTC Tower car?	20 Tones	15 Tones	18 Tones	16 Tones	20 Tones
213	How much is the axel load of DETC Tower car?	18 Tones 100 Kmph	16 Tones 110 Kmph	20 Tones 72 Kmph	15 Tones 120 Kmph	18 Tones
	Operating speed of DHTC? What is the installed power of Mark III Tower	100 Kmpn	200 HP @1500	110 HP @ 1800	212 HP @ 1500	110 Kmph
215	car?	212 HP @2100 rpm	rpm	rpm	rpm	212 HP @2100 rpm
216	What is the installed power of Mark II Tower	72 HP	63 HP	94 HP	83 HP	83 HP
217	What is the installed power of Mark IV Tower	110 BHP	260 BHP	230 BHP	240 BHP	230 BHP
218	What is the installed power of DETC Tower	500 HP	700 HP	600 HP	720 HP	700 HP
219	What is the installed power of DHTC Tower	2x285 HP	3x285 HP	2x318 HP	3x318 HP	2x285 HP
220	Pay load of 4 Wheeler Mark II Tower car is?	3 Tones	5 Tones	4 Tones	2 Tones	3 Tones
221	Expand RCFF?	Rectifier Cooling Fuse Failure	Rectifier Cooling Fan Failure	Both A and B	None of the abov	Rectifier Cooling Fan Failure
		Brake pressure control	Brake power control	Brake pipe control	Brake power control	Brake pressure control
222	Expand BPCG?	governor	governor	governor	generator	governor
222	Expand ECP?	Engine Control Panel	Extended Control Panel	Engine Cooling Pad	Extended Cooling Pad	Engine Control
223						Panel
224	Expand FRP?	Flexible reinforced	Fiber reinforced plastic	Fabricated reinforced	Ferrous reinforced	Fiber reinforced plastic
T	*	plastic	g p :	plastic	plastic	
225	Expand GRCO?	Group Relay cutout	Governor Relay cutout	Ground relay cutout	Guards Relay cutout	Ground relay
		switch Electronic Private	switch Extended Private	switch External Private	switch Electrical Private	cutout switch Extended Private Automatic
226	Expand EPABX?	Automatic Branch	Automatic Branch	Automatic Branch	Automatic	Branch Exchange
	F	Exchange	Exchange	Exchange	Branch Exchange	
227	Expand VPR?	Vertical Propulsion	Valve Propulsion Relay	Vehicle Propulsion	Velocity Propulsion	Vehicle
221		Relay		Relay	Relay	Propulsion Relay
228	Expand TOT?	Terminal oil	Torsion oil Temperature	Transformer oil	Transmission oil	Transmission oil
	n larg iii o	Temperature	m 171 G	Temperature	Temperature	Temperature
229	Expand TIG welding?	Tungsten invert gas welding	Through Inject Gas welding	Tungsten inert gas welding	Tungsten inject gas welding	Tungsten inert gas welding
230	MPU	Magnetic Pick up	Main Pick up	Manual Pick up	Moving Pick up	Magnetic Pick up
	TIG	Tungsten invert gas	Through Inject Gas	Tungsten inert gas	Tungsten inject gas	Tungsten inert
231			ŭ v			gas
232	MCS	Motor Cut out Switch	Motor Control Swit	Machine Control Switch	Modified Cut out	Motor Cut out
	MOVE	16 0 1 17 1	14:0 1 17:1		Switch	Switch
233	MOLR	Motor Overload Relay	Main Overload Rela	Magnetic Overload	Master Overload Relay	Motor Overload Relay
	PBS	Push Button solenoid	Pilot Break solenoi	Relay Parking Break solenoid	Pressure Break solenoid	Parking Break
234	1 55	r usir Button solenoid	I not break solenor	Tarking Break solehold	ressure Break solehold	solenoid
235	EER	Electrical Engine Raise	Emergency Engine	Emergency Exhaust	Emergency Earth Raise	Emergency
233			Raise	Relay		Engine Raise
236	EES	l	Emergency Engine	Emergency Engine Stop	Electric Emergency	Emergency Engine Stop
		I Electric Engine Stop				Emergency Engine Stop
		Electric Engine Stop	Safety	Electric Director	Sensing	
237	EPG	Exhaust Pressure	Safety Emergency Pressure	Electric Pipe Governor	Sensing Exhaust Particular Gas	Exhaust Pressure Governor
237	EPG	Exhaust Pressure Governor	Safety Emergency Pressure Gas	-	Exhaust Particular Gas	Exhaust Pressure Governor
237	EPG What is the purpose of Crank Shaft in Diesel	Exhaust Pressure	Safety Emergency Pressure Gas Converts Linear Motion	Electric Pipe Governor Converts Rotary Motion into Circular Motion		Exhaust Pressure Governor Converts Linear Motion into
	EPG	Exhaust Pressure Governor Converts Circular	Safety Emergency Pressure Gas	Converts Rotary Motion	Exhaust Particular Gas Converts Mechanical	Exhaust Pressure Governor
	EPG What is the purpose of Crank Shaft in Diesel	Exhaust Pressure Governor Converts Circular Motion into Linear	Safety Emergency Pressure Gas Converts Linear Motion	Converts Rotary Motion	Exhaust Particular Gas Converts Mechanical Motion into	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable
238	EPG What is the purpose of Crank Shaft in Diesel engine?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage,	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency
	EPG What is the purpose of Crank Shaft in Diesel	Exhaust Pressure Governor Converts Circular Motion into Linear	Safety Emergency Pressure Gas Converts Linear Motion	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into
238	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency
238	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage.	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage.
238	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months
238 239 240	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage.	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage.
238	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier
238 239 240 241	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years
238 239 240	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier
238 239 240 241	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? What is the frequency of Tower car D check?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years
238 239 240 241 242 243	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier DHTC	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC
238 239 240 241 242	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier
238 239 240 241 242 243 244	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non powered axel?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II Mark-III	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III Mark-IV	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier DHTC DHTC	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier ETC Both 'a' & 'b'	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b'
238 239 240 241 242 243 244 245	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non powered axel? Which Tower car has Two powered and Two non powered axels?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II Mark-III Mark-III	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III Mark-IV Mark-IV	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier DHTC DHTC DHTC	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier EDETC Both 'a' & 'b' both a&b	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC
238 239 240 241 242 243 244 245	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non powered axel? Which Tower car has Two powered and Two non powered axels? Which Tower car has all of its axels powered?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II Mark-III Mark-III	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III Mark-IV Mark-III	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1 Year whichever is earlier 1500 Hrs or 1 Year whichever is earlier 1500 Hrs or 1 Year whichever is earlier DHTC DHTC DHTC	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' both a&b DETC	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1 Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' DHTC DETC
238 239 240 241 242 243 244 245 246 247	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non powered axel? Which Tower car has Two powered and Two non powered axels? Which Tower car has all of its axels powered? Operating speed of DETC?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II Mark-III Mark-III Mark-III 100 Kmph	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III Mark-IV Mark-III 110 Kmph	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier DHTC DHTC DHTC DHTC OHTC OHTC OHTO	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' both a&b DETC 120 Kmph	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' DHTC DETC 100 Kmph
238 239 240 241 242 243 244 245 246 247 248	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non powered axel? Which Tower car has Two powered and Two non powered axels? Which Tower car has all of its axels powered? Operating speed of DETC? Operating speed of 4 Wheeler Mark II Tower	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II Mark-III Mark-III Mark-III Mark-III Mork-III	Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III Mark-IV Mark-IV Mark-III 110 Kmph 100 Kmph	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier DHTC DHTC DHTC DHTC DHTC OHTC OHTC OHTC OHTC OHTC OHTC OHTC OHTC	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' both a&b DETC 120 Kmph 40 Kmph	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' DHTC DETC 100 Kmph 40 Kmph
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239 240 241 242 243 244 245 246 247 248 249 250 251	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non powered axel? Which Tower car has Two powered and Two non powered axels? Which Tower car has all of its axels powered? Operating speed of 4 Wheeler Mark II Tower Operating speed of 4 Wheeler Mark III Tower	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II Mark-III Mark-III Mark-II I Mork-III Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III Mark-IV Mark-III 110 Kmph 100 Kmph 100 Kmph 100 Kmph 290 AH	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier 1500 Hrs or 1Year whichever is earlier DHTC DHTC DHTC DHTC DHTC DHTC DHTC 90 Kmph 590 Kmph 70 Kmph 45 Kmph	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' both a&b DETC 120 Kmph 40 Kmph 80 Kmph 80 Kmph 300 AH	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' DHTC DETC 100 Kmph 40 Kmph 70 Kmph 75 Kmph 290 AH	
238 239 240 241 242 243 244 245 246 247 248 249 250	EPG What is the purpose of Crank Shaft in Diesel engine? What is the purpose of Power rectifier in DETC Tower car? What is the frequency of Tower car B check? What is the frequency of Tower car C check? What is the frequency of Tower car D check? What is the frequency of Tower car D check? Which Tower car has AC/DC power transmission system? Which Tower car has one powered and one non powered axel? Which Tower car has Two powered and Two non powered axels? Which Tower car has all of its axels powered? Operating speed of DETC? Operating speed of DETC? Operating speed of 4 Wheeler Mark II Tower Operating speed of 4 Wheeler Mark III Tower Operating speed of 4 Wheeler Mark IV Tower What is the rating of Battery in DHTC Tower Wagon for starting in AH?	Exhaust Pressure Governor Converts Circular Motion into Linear Motion For supplying the load on the Tower Car Every day Every day Every day Mark-II Mark-III Mark-III Mark-II I Mork-III Safety Emergency Pressure Gas Converts Linear Motion into Rotary Motion Battery Charging 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier 300 Hrs or 6 Months whichever is earlier Mark-III Mark-IV Mark-IV Mark-III 110 Kmph 100 Kmph 60 Kmph 100 Kmph	Converts Rotary Motion into Circular Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 1500 Hrs or 1 Year whichever is earlier 1500 Hrs or 1 Year whichever is earlier 1500 Hrs or 1 Year whichever is earlier DHTC DHTC DHTC DHTC DHTC DHTC DHTC DHTC DHTC OKmph 590 Kmph 70 Kmph 45 Kmph	Exhaust Particular Gas Converts Mechanical Motion into Electrical Motion For cooling the temperature 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier 6000 Hrs or 2 years whichever is earlier Endough the search of the	Exhaust Pressure Governor Converts Linear Motion into Rotary Motion To Rectify 3 Phase variable voltage, variable frequency alternator output voltage into smooth DC voltage. 300 Hrs or 6 Months whichever is earlier 1500 Hrs or 1Year whichever is earlier 6000 Hrs or 2 years whichever is earlier DETC Both 'a' & 'b' DHTC DETC 100 Kmph 40 Kmph 75 Kmph	
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	What must be the minimum pressure of lube oil	a may	0.17.07		a way	
256	of Tower Wagon?	3 KG/cm ²	8 KG/cm ²	5 KG/cm ²	7 KG/cm ²	5 KG/cm ²
257	How many strokes are there in IC engine? What type of cooling system provided in DETC	6 Water cooling with roof	4 Water Cooling	7 Water cooling with roof	Air Cooling with Fans	Woter cooling with reef
258	Tower Wagon?	mounted radiator with Hydrostatic fan drives	mater County	mounted radiator	An Cooning with Falls	Water cooling with roof mounted radiator with Hydrostatic
259	Which type of Tower Wagon has cooling system with Roof Mounted radiator with Hydrostatic fan drives?	DETC	8 wheeler DHTC	Both 'a' and 'b'	Mark-III	Both 'a' and 'b
260	How many brake cylinders are there in MARK- III Tower Wagon?	5	4	6	7	6
261	What is the maximum allowable water temperature allowed in Tower Wagon?	85°C	95°C	75°C	100°C	95°C
262	What is the Relay provided to detect Ground Faults in Power Circuit?	Relay Section	Ground Fault Relay	RCFR	Safety Relay	Ground Fault Relay
263	What is the fuel tank capacity of Mark II Tower car in litres?	200	300	800	600	200
264	What is the fuel tank capacity of Mark IIITower car? What is the fuel tank capacity of DHTC Tower	700 Ltrs 300 Ltrs	300 Ltrs 700 Ltrs	400Ltrs 400 Ltrs	650 Ltrs 600 Ltrs	300 Ltrs 600 Ltrs
266	What is the fuel tank capacity of DETC Tower What is the fuel tank capacity of DETC Tower	600 Ltrs	500 Ltrs	1700 Ltrs	650 Ltrs	1700 Ltrs
267	Expand EP?	Electro pneumatic	Electro pressure	Both a and b	None of the abov	Electro pneumatic
		Internal combustion	Integral Combustion	Internal control engine		Internal combustion engine
268	Expand IC ENGINE?	engine	Engine		Both 'a' & 'b'	
269	Expand ECR?	Excitation common	Effective control rel	Excitation control relay	None of the above	Excitation control
270	Expand DETC?	Diesel Engine Tower Car	Dual Engine Tower Car	Diesel Electronic Tower Car	Diesel Electric Tower Car	Diesel Electric Tower Car
271	Expand RFF?	Rectifier Function Fault	Restricted Function Fault	Rectifier fuse failure	both a and c	Rectifier fuse failur
272	Expand HWT?	High Water Temperature	High Wind Temperature	High Winding Temperature	None of the abov	High Water Temperature
273	PPM	Parts per million	Parts per meter	Parts per minutes	parts per micron	Parts per million
274	Expand DHTC?	Diesel Hybrid Tower car	Diesel Hydraulic Tower Car	DC Hydraulic Tower Car	Dynamic Hydraulic Tower Car	Diesel Hydraulic Tower Car
275	Expand AAF?	Auto Alternator Failure	Auxiliary Alternator Fuse	Auxiliary alternator failure	Auto Alternator Fuse	Auxiliary alternator failure
276	Expand AFR?	Air Flow Relay	Auto Flow Relay	Anti Flow Relay	Auxiliary Flow Relay	Air Flow Relay
277	Expand BCS?	Battery Control Source	Battery Charging source		Battery Control Switch	Battery charging socket
278 279	Expand BIS?	Battery Insulation Switch Breaker Main	Battery isolation fuse switch Blower motor	Battery initialization Switch	Battery interruption fuse switch	Blayer meter
280	Expand BM? Expand COR?	Cut off relay	Cut over relay	Breaking Motor Cut out relay	Bi polar motor Cut on relay	Blower motor Cut out relay
281	Expand DCS?	Driver command switch	Driver control switc	Driver control socket	Driver command socket	Driver control switch
	A9.	Independent Brake	Isolating Breaking	Automatic Brake Valve.		Automatic Brake
282		Valve	Valve			Valve
283	What is the rating of Turret CT on HV side?	330/5A	300/5A	500/5A	250/5A	330/5A
284	What is the rating of Turret CT on LV side?	1800/5A 30% of Capacitor bank	2000/5A 13% of Capacitor bank	1600/5A 50% of Capacitor bank	1500/5A Equal to Capacitor bank	1600/5A
285	What is the rating of SR? What is the purpose of Auxiliary transformer at	rating 230V supply to CLS	rating 230V supply to one	rating both 'a' & 'b'	rating None of the above	13% of Capacitor bank rating both 'a' & 'b'
286	stations? What is the purpose of 132KV CT in	132KV side	Light and Fan in ASM 132KV side	132KV side	None of the	132KV side protection
287	TSS?	indication	measurement	protection	above	1521 V Side protection
288	Overload capacity of Traction power	50% overload for	100% overload	Both 'a' & 'b'	None of the	Both 'a' & 'b'
289	transformer? What is the permissible interval of time between two Successive	15minutes	for 5minutes 2hrs	3hrs	above 4hrs	3hrs
207	overloads? The taps of the tap changer used in traction	+10% To -15% in	+10% To -10% in	+15% To -10% in	+15% To -15%	
290	transformer varies from	+10% 10 -15% in steps of 5%	steps of 5%	+15% 10 -10% in steps of 5%	in steps of 5%	+10% To -15% in steps of 5%
291	What is the maximum voltage to be maintained at TSS?	27.5 KV	25 KV	27 KV	29 KV	27.5 KV
292	What is the minimum voltage to be maintained at SP for effective operation of trains?	16 KV	23.5 KV	25 KV	19 KV	19 KV
293	What tests are to be conducted for transformer oil?	Break down voltage (BDV) test	Acidity test	Crackle test	All of the above	All of the above
294	Which type of circuit breaker to be used in TSS on 132/220kV side?	SF6	Vacuum	Both 'a' & 'b'	Nitrogen	SF6
295	What is the reason for the shedding of active material of positive plates of cell?	Under charging	fully charged	discharged	over charging	over charging
296	What are the precautions to be taken after completion of work on equipment?	material	do not leave any tools or material	do not leave equipment covers in Al condition.	ll of the above open	All of the above
297	What happens if battery is disconnected when sub-station is in operation?	in the equipment HV CB trips with CTD	on the equipment LV CB trips with CTD	Feeder CB trips with	All CBs will trip with CTD	All CBs will trip with CTD
298	In AC traction, why track bonding is done upto 1 KM from either side of the FP	Beyond this distance return current goes through RC	Beyond this distance return current disappears into Earth	Beyond this distance return current is not necessary to come upto TSS	All of the above	All of the above
299	What do you mean the term "general mass of the earth"?	Whose reference potential is less than from system voltage	Whose reference potential is more than from system voltage	Whose reference potential is equal to the system voltage	Whose reference potential is zero	Whose reference potential is zero
300	During fault, the potential of the electrode is much above the general mass of the earth. This potential is drain into the general mass of the earth upto zero, this phenomena is called	Voltage gradient	Current gradient	Resistance gradient	All of the above	Voltage gradient

	What do you mean by the term 'potential or	Voltage drop between	Voltage drop between	Voltage drop between	Voltage drop between	Voltage drop between two
301	voltage gradient' in earthing system ?	live & earth electrode	live & non current carrying parts of the system	earth electrode & surrounding soil	two points on the earth surface around the earth electrode	points on the earth surface around the earth electrode
302	Moisture contents in the soils should not be less than (in the term of equivalent weight of the soil)	10%	20%	30%	40%	20%
303	If earth resistance is still showing high values after providing water, coke & salt. How you solve the problem?	Removed earth connection	Additional earthing in series	Additional earthing in parallel, whose earth resistance area should be in same zone	Additional earthing in parallel, whose earth resistance area should be in separate zone	Additional earthing in parallel, whose earth resistance area should be in separate zone
304	What is the HV-LV polarization index value of transformer?	R60 / R10	R600/R60	R6000/R600	Both 'a' & 'b'	Both 'a' & 'b'
305	Voltage rating of LA is given by the	1.1 x 0.8 x line to	1.2 x 0.9 x line to	1.1 x 0.9 x line to	1.2 x 0.8 x line	1.1 x 0.8 x line to line
	formula? The distance of OHE section, for which "a	line voltage Feeding length	line voltage Feeding zone	line voltage Sector	to line voltage Sub sector	voltage Feeding length
306	traction transformer will feed power in emergent condition is called					
307	Normally, insulated overlap is employed opposite FP. What precautions should be taken , when adjacent TSS supply is extended upto FP by closing bridging interrupter at SP?	Handed over a caution order to driver for lower the panto before approaching insulated overlap at FP	Both side of FP, power supply should be switched -off	Both feeder CB should be in open position	All of the above	Handed over a caution order to driver for lower the panto before approaching insulated overlap at FP
308	Inhibitor content of new transformer oil should be	0.2 to 03%	0.4 to 0.5%	0.6 to 1.0%	None of these	0.2 to 03%
309	The minimum IR value of Power transformer at 30 degree Celsius between HV - E	2000 M ohm	2100 M ohm	2050 M ohm	None of these	2000 M ohm
310	The minimum IR value of Power transformer at 30 degree Celsius between LV -	450 M ohm	400 M ohm	500 M ohm	None of these	400 M ohm
311	The minimum IR value of Power transformer at 30 degree Celsius between HV -LV	2550 M ohm	2400 M ohm	2500 M ohm	None of these	2500 M ohm
312	SCL current for LV side 20 MVA transformer	5800 Amp	5660 Amp	5600 Amp	None of these	5800 Amp
313	Maximum value of Tan delta of	0.008	0.017	0.007	None of these	0.007
314	transformer bushing Acidity of transformer oil should be	0.5 mg	0.3 mg KOH/gm	0.2 mg KOH/gm	None of these	0.5 mg
315	less than Flash point of transformer oil	KOH/gm >120	>130	>140	>145	KOH/gm >140
316	Transformer oil Iin service shall be tested as per specification	IS:335	IS:1866	IS:445	None of these	IS:1866
317	New transformer oil shall be tested as per specification	IS:335	IS:1866	IS:445	None of these	IS:335
318	Maximum allowable water content in	25ppm	35 ppm	40ppm	45ppm	35 ppm
319	transformer oil Maximum increase in magnetizing	10 times of	50 times of initial	60 times of initial	None of these	50 times of initial
320	current is permitted Polarization index (PI) by the IR ratio of R60/R10 and R600/ R60 is less than one then insulation	initial value dangerous	value poor	value good	None of these	value dangerous
321	Insulation Polarization index (PI) by the IR ratio of R60/R10 and R600/ R60 is less than 1 to 1.1 then insulation	dangerous	poor	good	None of these	poor
377	Polarization index (PI)by the IR ratio of R60/R10 and R600/ R60 is less than 1.1 to 1.25 then insulation condition is	dangerous	Questionable	good	None of these	Questionable
323	Polarization index (PI) by the IR ratio of R60/R10 and R600/ R60 is less than 1.25 to 2.00 then insulation	dangerous	satisfactory	good	None of these	satisfactory
324	If the PI value is less than 1.1, transformer oil should be	replace	РОН	filtered	None of these	filtered
325	The maximum allowable capacitance	10 % of factory	150 % of factory	110 % of factory	None of these	110 % of factory
326	of transformer bushing Minimum value of IR of AT between	value 250 M ohm	value 200 M ohm	value 300 M ohm	None of these	value 200 M ohm
327	HV & Earth Minimum value of IR of AT between	1 M ohm	3 M ohm	4M ohm	2 M ohm	1 M ohm
328	LV & Earth Minimum value of IR of AT between	200 M ohm	300 M ohm	270 M ohm	None of these	200 M ohm
329	LV & HV Out of the following, what is not the type of operating mechanism of a CB	Air open/ Air Close	Spring open / spring close	Air open / spring close.	ONAN / ONAF	ONAN / ONAF
330	or BM? In a 25KV CB/BM air pressure is	Compressor	Air pressure limit	Safety valve	TPC	Air pressure limit switch
331	maintained by Megger value for 198KV LA should	2500ΜΩ	switch 1GΩ	10GΩ	200ΚΩ	10GΩ
332	be? Megger value for 42KV LA should be?	2500ΜΩ	1GΩ	10GΩ	200ΚΩ	1GΩ
333	Cable size of Discharge rod used in 25 KV OHE is -	Multi core 40 sq.mm.	Single core 40 sq.mm.	Multi core 20 sq.mm.	Single core 20 sq.mm.	Single core 40 sq.mm.
334	What is the purpose of 100KVA AT at TSS?	230V supply for Oil filter plant Trip the CB if 230V AC	230V supply for lights and fans Trip the CB if 110V DC	230V supply for heaters & battery Trip the CB if 110V DC	All of the above	All of the above Trip the CB if 110V DC fails
335	What is the purpose of CTD?	fails	is Low	fails	is	
336	What is the purpose of conservator tank for a transformer?	Keeps main tank full	energy conservation	Both 'a' & 'b'	None of the above	Keeps main tank full
337	What is the purpose of PRD?	to detect evolution of gas	to protect the main tank from breakage	Both 'a' & 'b'	None of the above	to protect the main tank fron breakage
338	What is the purpose of OTI?	Oil temperature indication	transformer protection	Both 'a' & 'b'	None of the above	Both 'a' & 'b'
	What is the purpose of WTI?	Winding temperature indication	transformer protection	Both 'a' & 'b'	None of the above	Both 'a' & 'b'

	What is the mamage of agains home	Duotostion against	Over veltere	Both 'a' & 'b'	None of the	Duotaction against
340	What is the purpose of arcing horns provided to power transformer?	Protection against Lightning	Over voltage protection	Both a & b	above	Protection against Lightning
341	What is the purpose of 25KV CB on LV side of power transformer?	Overload protection	control the output supply	Both 'a' & 'b'	None of the above	Both 'a' & 'b'
342	What is the purpose of Type-II PT in	Protection	measurements	Both 'a' & 'b'	None of the	Both 'a' & 'b'
342	feeder Bay? What is the purpose of Type-I PT?	Protection	measurements	Catenary indication	above None of the	Catenary indication
343	what is the purpose of Type-1 F 1?	Frotection	measurements	Catenary indication	above	Catenary indication
344	What is the purpose of SR? Equipment used to identify the loose	To limit the Screw gauge	to limit switching vernier Calliperse	Both 'a' & 'b'	None of the Thermo vision	Both 'a' & 'b' Thermo vision camera
345	joints?	Screw gauge	vermer Camperse	Torque wrench	camera	Thermo vision camera
346	What type of tap changers are used in traction transformer ?	On-load	off-load	Both 'a' & 'b'	None of the above	off-load
347	Number of taps available in tap	2	4	5	6	6
347	changer used for traction transformer are What is the specific gravity of electrolyte to be		7		ŭ .	
348	maintained for	1.000 at 27°C	1.210 at 27°C.	1.300 at 27°C.	1.400 at 27°C	1.210 at 27°C.
	batteries? What is the specific gravity of					
349	electrolyte when cell is fully discharged	1.15	1.21	1.3	1.4	1.15
350	What type of electrolyte used in lead acid batteries?	H ₂ SO ₄	Dilute H ₂ SO ₄	Dilute H ₃ SO ₄	Dilute H ₄ SO ₄	Dilute H ₂ SO ₄
351	Prolonged charging at very low	Under charging	full charging	trickle charging	Over charging	trickle charging
352	speed is called? What is the cell voltage to be	2.15V	2.00V	2.10V	2.20V	2.15V
332	maintained to increase battery life? What is the rating of drop out fuse of	4A	3A	2A	1A	1A
353	ATs provided at Station?	4A	JA.	ZA	IA	IA
354	What is the maximum value of combined earth resistance of AT,	9 ohm	10 ohm	5 ohm	2.5 ohm	10 ohm
JJ-T	BT?	> Omn	10 Olilli	5 onin	2.5 Omn	10 VIIII
355	What is the maximum value of combined earth resistance of SP, SSP?	5 ohm	2 ohm	1 ohm	0.5 ohm	2 ohm
356	What is the maximum value of	5 ohm	2 ohm	1 ohm	0.5 ohm	0.5 ohm
357	What is the maximum value of combined earth resistance of LC	9 ohm	10 ohm	5 ohm	2.5 ohm	10 ohm
	Gates?					
358	What is the maximum value of combined earth resistance of PTFE	9 ohm	10 ohm	5 ohm	2.5 ohm	10 ohm
	Neutral Section?					
359	What is the size of bus bar arrangement used in TSS for a	40mm	50mm	60mm	70mm	50mm
	21.6MVA transformer?					
360	What are the min & max clearances of SPI in open condition?	38cm - 50cm	38cm - 55cm	35cm - 50cm	50cm - 55cm	38cm - 50cm
361	What is the gap of spheres to test BDV of transformer oil?	2.0mm	2.2mm	2.3mm	2.5mm	2.5mm
	What is the gap of arcing horns of power					
362	transformers on HV side and LV side?	760mm, 270mm	760cm, 270cm	770mm, 260mm	770cm, 260cm	760mm, 270mm
	What is the cross section of MS flat					
363	used for earthing of secondary terminal of traction transformer?	50 x 8 mm	40 x 6 mm	65 x 6 mm	75 x 8 mm	75 x 8 mm
364	What is the dia 25KV bus bar of 12.5	38/26mm	36/28mm	42/38mm	38/28mm	36/28mm
265	MVA transformer TSS? What is the impedance of OHE /	0.24 ohms/KM	0.41 ohms/KM	0.18 ohms/KM	0.17 ohms/KM	0.24 ohms/KM
365	TKM in double line without RC?	20.4	co.t	50.4	42.54	42.54
366	what is the maximum current on secondary side of 10KVA AT?	30A	60A	50A	43.5A	43.5A
367	Which type of circuit breaker to be	SF6	Vacuum	Both 'a' & 'b'	Nitrogen	Both 'a' & 'b'
368	used in TSS on 25 kV side? Type of motor used in 132KV or	230V AC	72V DC	110V AC	110V D.C	110V D.C
	LVCB mechanism box is? Tap changer is connected to which	LV side	HV side	both a&b	No tap changer	LV side
369	winding of power transformer?	L 1 SIGC	II V SIUC	oour acco	is provided	± √ Siuc
370	What will be the OHE impedance for single track without return	0.24 ohms/KM	0.41 ohms/KM	0.18 ohms/KM	0.17 ohms/KM	0.41 ohms/KM
5.0	conductor ?	0.27 Omno Kivi	O I Omno Aivi	0.10 Omno KW	O.17 OHING KWI	O. 12 OHIES/ILIT
371	What will be the OHE impedance for triple track without return conductor ?	0.24 ohms/KM	0.41 ohms/KM	0.18 ohms/KM	0.17 ohms/KM	0.18 ohms/KM
272	Excessive voltage due to surge is bypassed by	Atmosphere in the form	Atmosphere in the form	Earth	All of the above	Earth
372	lightning arrester into	of electromagnetic energy	of electro static energy			
373	The voltage of new cell after fully	2.3 V	2.5 V	2.6 V	None of these	2.5 V
	charging Min. height of 25 kV bus bar from	3.8 M	4 M	3.5 M	None of these	3.8 M
374	ground level at TSS					
375	50% Overload of main Traction transformer is permitted for a period	30 Minutes	15 Minutes	5 Minutes	None of these	15 Minutes
	of		7 voors		None of these	10 years
376	POH of transformer is to be carried out after every	5 years	7 years	10 years	rione of these	10 years
377	The rating of LV fuse provided at 10 kVA AT is	60 amp	63 amp	65 amp	None of these	63 amp
378	Primary current of 10 KVA AT is	1 amp	0.2 amp	0.4 amp	None of these	0.4 amp
	Secondary current of 10 KVA AT is	32 amp 4 amp	41.6 amp	21.6 amp	None of these None of these	41.6 amp 4 amp
379			6 amp	8 amp		4 amp 416 amp
379 380 381	Primary current of 100 KVA AT is Secondary current of 100 KVA AT is	350 amp	376 amp	416 amp	None of these	416 amp
379 380	Primary current of 100 KVA AT is Secondary current of 100 KVA AT is The paint provided in battery room	350 amp Anti hydrochloric	Anti sulphuric	PVC	None of these None of these	None of these
379 380 381 382	Primary current of 100 KVA AT is Secondary current of 100 KVA AT is	350 amp	Anti sulphuric Acid	PVC	None of these	None of these
379 380 381	Primary current of 100 KVA AT is Secondary current of 100 KVA AT is The paint provided in battery room floor should be	350 amp Anti hydrochloric acid	Anti sulphuric			

385	Expand BX?	Bus coupler	Bus crossing	Bus cutting	Bus contact	Bus coupler interruptor
	Expand BC?	interruptor Bus contact	interruptor Bus coupler	interruptor Bus cutting isolator	interruptor Bus crossing	Bus coupler isolator
386	Expand BC.	isolator	isolator	Bus cutting isolator	isolato	Bus coupler isolator
387	Expand CB?	Circuit Breaker	Circuit Banker	Capacitor breaker	Circuit blocker	Circuit Breaker
388	Expand TR?	Track Resistance	Traction power transformer	Train Resistance	Time Relay	Traction power transformer
389	Expand PT?	Power	Protection	Potential	Power	Potential Transformer
309		Transformer	Transformer	Transformer	Transducer	
390	Expand CT?	Current Transformer	Capacitor Transformer	Current tester	Continuity tester	Current Transformer
391	Expand LA?	Lightning	Lightning	Lightning Allower	Lightning	Lightning Arrester
	To Jane	Arrester	Attracter	a	Absorber	
392	Expand SR? Expand NCT?	Series Rectifier Natural current	Series Reactor Negative current	Series Resistor Neutral current	Series Rheostat Noncurrent	Series Reactor Neutral current
393	Expand NC1	transformer	transformer	transformer	transformer	transformer
394	Expand HRC?	High Return	High Rate of	High Rupturing	High Rupturing	High Rupturing Capacity
395	Expand DO fuse?	Current Drop Off fuse	Current Drop Over fuse	Capacity Drop Out off fuse	Current Drop out fuse	Drop out fuse
396	Expand TSS?	Terminal Sub-	Traction Sub-	Traction Sub-station	Terminal Sub-	Traction Sub-station
390		station	section		section	
397	Expand SP?	Sectioning and Paralleling Post	Sectioning Post	Section Post	Sub-Sector Post	Sectioning and Paralleling Post
		Sub-Sectioning and	Sub-Sectioning Post			Sub-Sectioning and
398	Expand SSP?	Paralleling	_	Sub-Section Post	Sub-Sector Post	Paralleling Post
399	Expand FP?	Post Front Post	Feeding Post	Feeder Post	Front Post	Feeding Post
400	Expand LR switch?	Low Resistance	Local Remote	Lockout Release	Local Release	Local Remote Switch
400		Switch	Switch	Switch	Switch	
401	Expand IR value?	Insulation Resistance value	Internal Resistance value	Inter Resistance value	Insulation Reactance value	Insulation Resistance value
402	Expand PI value?	Polarity Index	Progressive Index	Proportionate Index	Polarization	Polarization Index value
	*	value	value	value	Index value	
403	Expand MD?	More demand Contract Maximum	Maximum Constant Maximum	Multi demand Cumulative Maximum	Marginal Continuous Maximum	Maximum Demand Contract Maximum Demand
404	Expand CMD?	Demand	Demand	Demand	Demand	Contract Maximum Demailu
405	Expand PF?	Potential factor	Production factor	Phase factor	Power factor	Power factor
406	Expand TNC switch?	Trip neutral close	Train notch Control	Train Nano Control	Trip normal Control	Trip neutral close
407	Expand EHV?	Existing high	Extra higher	Extra half voltage	Extra High	Extra High Voltage
407		voltage	voltage		Voltage	
408	Competency certificate for Relay testing staff?	TR/01	TR/05	TR/06	TR/07	TR/07
409	What are the maintenance schedules	Monthly	Half yearly	yearly and POH.	All of the above	All of the above
407	for power transformer?	0 1	TT 10 1	,	AB Cd	AB Ca I
410	What are the maintenance schedules for SF6 CB?	Quarterly	Half yearly	yearly	All of the above	All of the above
411	What are the maintenance schedules	Monthly	yearly	Quarterly	Both 'a' & 'b'	Both 'a' & 'b'
711	for Battery? What are the maintenance schedules	Monthly	1	O	Both 'a' & 'b' Quarter	1-
412	for Cable trench?	Monuny	yearly	Quarterly	Both 'a' & 'b' Quarter	riy
413	IR value of LA is measured by	3.5 kV megger	2.8 kV megger	2.5 kV megger	None of these	2.5 kV megger
414	Capacitor bank is used for	current	Power factor	Voltage	None of these	Power factor improvement
415	Power transformer used at TSS are	Step down	improvement Step up	both type	None of these	Step down
416	Cooling fans are used in transformer	Voltage	Current	capacity	None of these	capacity
	for increasing Depth of buried rail at TSS	2 mtr	0.5 mtr	1 mtr	None of these	1 mtr
417	Voltage rating of megger for measuring IR value	2 iiid	0.5 mu	1 mu	None of these	1 IIII
418	of main	2.5 kV	1.5 kV	0.5 kV	None of these	2.5 kV
	transformer No. of taps provided in power	5 nos.	3 nos.	6 nos.	None of these	6 nos.
419	transformer	5 nos.	3 nos.	o nos.	None of these	o nos.
420	The traction load is type of	Double phase	single phase	Three phase	None of these	single phase
421	Generally kVA rating of AT provided at station	50	110	15	10	10
422	In which battery post corrosion is	both battery	Conventional	VRLA battery	None of these	Conventional
+22	usually observed	OHE	battery	D.d	N 64	battery
423	The protection used in TSS	OHE protection	Transformer protection	Both protection	None of these	Both protection
424	NCT is used for protection of	Capacitor bank	Transformer	OHE	None of these	Capacitor bank
425	Schedule of relay testing is	Half Yearly	yearly	Monthly	None of these	yearly
426	DC supply required for operating of relay in TSS	110 V	100 V	115 V	None of these	110 V
	There should be continuity between moving					
427	contact and fixed contact	NO	YES	BOTH	None of these	YES
45-	when CB closed is Size of MS flat connected to	55mm x 8 mm	60mm x 5 mm	50mm x 6 mm	None of these	50mm x 6 mm
428	secondary of PT to earth					
429	Size of MS flat connected to	55mm x 8 mm	60mm x 5 mm	80mm x 5 mm	50mm x 6 mm	50mm x 6 mm
	secondary of AT to earth	0.25 Ohm	0.5 Ohm	1 Ohm	None of these	0.5 Ohm
400	The Max. permissible combined		1			
430	earth resistance at TSS	0.25 0				Î.
	earth resistance at TSS Max. permissible combined earth resistance at a		1 Ohm	2 Ohm	None of these	2 Ohm
430	earth resistance at TSS	0.5 Ohm	1 Ohm	2 Ohm	None of these	2 Ohm
431	earth resistance at TSS Max. permissible combined earth resistance at a switching station (SP/SSP) VA capacity of type I PT is	0.5 Ohm 100 VA	75 VA	50 VA	30 VA	30 VA
431 432 433	earth resistance at TSS Max. permissible combined earth resistance at a switching station (SP/SSP) VA capacity of type I PT is The electrode gap of oil test for BDV	0.5 Ohm 100 VA 2.0 mm	75 VA 2.5 mm	50 VA 4.0 mm	30 VA None of these	30 VA 2.5 mm
431	earth resistance at TSS Max. permissible combined earth resistance at a switching station (SP/SSP) VA capacity of type I PT is	0.5 Ohm 100 VA	75 VA	50 VA	30 VA	30 VA
431 432 433 434 435	earth resistance at TSS Max. permissible combined earth resistance at a switching station (SP/SSP) VA capacity of type I PT is The electrode gap of oil test for BDV Magnetic poles are generally known as TR-5 Competency Certificate is given to – Maximum Permissible distance between two	0.5 Ohm 100 VA 2.0 mm North- South OHE Lines Man	75 VA 2.5 mm East- West PSI fitter	50 VA 4.0 mm EMF- MMF RC artisan	30 VA None of these UP-DOWN PSI Supervisor.	30 VA 2.5 mm North- South PSI fitter
431 432 433 434 435 436	earth resistance at TSS Max. permissible combined earth resistance at a switching station (SP/SSP) VA capacity of type I PT is The electrode gap of oil test for BDV Magnetic poles are generally known as TR-5 Competency Certificate is given to — Maximum Permissible distance between two discharge rods is?	0.5 Ohm 100 VA 2.0 mm North- South OHE Lines Man 1 metre	75 VA 2.5 mm East- West PSI fitter 10 metres	50 VA 4.0 mm EMF- MMF RC artisan 100 metres	30 VA None of these UP-DOWN PSI Supervisor. 1000 metres	30 VA 2.5 mm North- South PSI fitter 1000 metres
431 432 433 434 435	earth resistance at TSS Max. permissible combined earth resistance at a switching station (SP/SSP) VA capacity of type I PT is The electrode gap of oil test for BDV Magnetic poles are generally known as TR-5 Competency Certificate is given to – Maximum Permissible distance between two	0.5 Ohm 100 VA 2.0 mm North- South OHE Lines Man	75 VA 2.5 mm East- West PSI fitter	50 VA 4.0 mm EMF- MMF RC artisan	30 VA None of these UP-DOWN PSI Supervisor.	30 VA 2.5 mm North- South PSI fitter

439					I -	
	What is used for cooling of a transformer?	Conservator tank	Radiator	Breather	Core	Radiator
440	Bushing CT is associated with?	Power	AT- 100KVA	AT at SP	Feeder CB	Power Transformer
-		Transformer	holom man-lati		haaida as	
441	Location of PRD?	Behind control panel	below marshaling box	Above bell tank	beside conservator	Above bell tank
					tank.	
442	Expand FSK?	Frequently shift Keying	Frequency Shift Keying	Front Shift Keying	Fifth Shift Keying	Frequency Shift Keying
443	Expand MOV?	Metal Oxide Vibrator	Multi Orientation Valve	Mould Oxide Varistor	Metal Oxide Varistor	Metal Oxide Varistor
444	What is the name of the equipment used to	Transducer	Modem	Digital Meter	All of the above.	Modem
	convert	0. 71.	m c	m 1	NT 62 1	
445	What is the name of the equipment to convert	Oscillator	Transformer	Transducer	None of the above	Transducer
	the	4	1	2	NIII	NITT
446	How many AI card are provided at SSP RTU?	4	1	2	NIL	NIL
	How many types of input interface cards are	2	1	4	NILL	4
447	available					
	in logic chassis of SCADA?					
448	What is the communication scheme adopted for	Frequency Shift keying	Amplitude Modulation	Frequency modulation	None of theses	Frequency Shift keying
	MODEMS used for SCADA?	2001	4001	6001	201 1	coo
4.40	What is the transmission capacity of the	230 baud	100 baud	600 baud	30 baud	600 baud
449	MODEM used					
	in SCADA?					
450	How many Type - I tele signals can be sensed at	2	3	6	1	6
450	TSS					
451	for relay WPC/DPR/OCR?	o an	n	uma	n nn	
451	Which relay recognizes the dead line and live	OCR	Panto flash over relay	WPC	DPR	Panto flash over relay
452	How many AI card are provided at SP RTU?	220.11	5	1	4	11077
	What is the voltage level of status and alarm	230 V	110V	74V	24V	110V
453	signal of					
	field devices?					
454	What is the current rating of a contactor?	15Amps	25 Amps	10 Amps	24 Amps	10 Amps
455	How many Tele commands are provided in	24	48	6	2	24
	RTU at					
	How many Tele-Metry signals are available in	24	6	12	36	12
456	RTU at					
	TSS?					
457	How many Tele signals are available in RTU at	48	6	96	26	48
	TSS?					
458	What are telemetry signals?	Voltage and current	110V DC low	230V DC fail	Catenary dead	Voltage and current
	What is the name of the section of power supply			<u></u>		
459	unit	Supervisory section	Control section	Switching section	Maintaining section	Supervisory section
,	used to monitor the AC input supply and to	Supervisory section	Control Section	S.vitening section	amaming section	Supervisory section
	change over to battery supply during supply					
	What is the reason for adopting Pulse width	To suppress odd	To suppress even	To suppress higher	To suppress lower order	To suppress lower order
460	modulation	harmonics	harmonics	order	harmonics.	harmonics.
	in the inverter?	<u> </u>		harmonics		
		To measure SF6 gas	To measure compressor	To measure voltage,	To measure winding	To measure voltage, current
461	What is the purpose of Telemetry signals?	pressure	air	current and	temperatur	and
			pressure	maximum demand.		maximum demand.
462	What is the ratio of PT used for voltage	25KV/132V	30KV/132V	27.5KV/132V	29KV/132V	30KV/132V
402	measurement in telemetry of TSS?	23K V/132 V	30K V/134 V	21.JK V/132 V	27K V/132 V	JUIN 1/134 V
	What is the ratio of PT used for voltage	25KV/132V	27.5KV/132V	30KV/132V	29KV/132V	30KV/132V
463	measurement in					
	. 1 C. CDO					
	telemetry of SP?					
161	How many tele commands are sensed at RTU of	9	8	7	6	8
464		9	8	7	6	8
464 465	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of	9	8	14	6 15	12
	How many tele commands are sensed at RTU of SSP?					
465	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of	12	13	14	15	12
465 466 467 468	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP?	12 Monitoring 24	13 Interacting 36 12	14 Polling 12 24	15 Guiding 48 48	12 Polling 48 6
465 466 467 468	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP?	12 Monitoring 24 6 2	13 Interacting 36 12	14 Polling	15 Guiding 48 48 8	12 Polling 48 6 4
465 466 467 468 469	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at	12 Monitoring 24	13 Interacting 36 12	14 Polling 12 24	15 Guiding 48 48	12 Polling 48 6
465 466 467 468	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP,SSP?	12 Monitoring 24 6 2	13 Interacting 36 12 4	14 Polling 12 24 6	15 Guiding 48 48 8	12 Polling 48 6 4
465 466 467 468 469 470	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP,SSP? What is CPU?	12 Monitoring 24 6 2	13 Interacting 36 12 4	14 Polling 12 24	15 Guiding 48 48 8	12 Polling 48 6 4
465 466 467 468 469 470 471 472	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre	13 Interacting 36 12 4 4 Control Processing Unit Remote Command	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre	15 Guiding 48 48 8 12 Command Processing Remote Control Centre	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre
465 466 467 468 469 470	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP.SSP? What is CPU? Expand RCC? Expand RCC?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control	13 Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control
465 466 467 468 469 470 471 472 473	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre	13 Interacting 36 12 4 4 Control Processing Unit Remote Command	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre	15 Guiding 48 48 8 12 Command Processing Remote Control Centre	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre
465 466 467 468 469 470 471 472	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP.SSP? What is CPU? Expand RCC? Expand RCC?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control	13 Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control
465 466 467 468 469 470 471 472 473	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP.SSP? What is CPU? Expand RCC? Expand RCC?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control	13 Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control
465 466 467 468 469 470 471 472 473	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC? Expand RCC? Expand TPC?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller	13 Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller
465 466 467 468 469 470 471 472 473	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC? Expand RCC? Expand TPC?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote	13 Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller
465 466 467 468 469 470 471 472 473 474	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand SRC?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control	13 Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control
465 466 467 468 469 470 471 472 473 474 475	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC? Expand RC? Expand TPC? Expand SRC? Expand SRC? Expand RTU?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit
465 466 467 468 469 470 471 472 473 474 475 476 477	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand SRC? Expand SRC? Expand RTU? Expand RTU? Expand RTU? Expand FEP?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution	13 Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many teles signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP.SSP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand SRC? Expand FPP? Expand RTU? Expand RTU? Expand RTU?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor
465 466 467 468 469 470 471 472 473 474 475 476 477	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RC at SP.SSP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand TPC? Expand RCP? Expand RCP? Expand CP? Expand RAM?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RC at SP.SSP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand TPC? Expand RCP? Expand RCP? Expand CP? Expand RAM?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC? Expand RC? Expand TPC? Expand SRC? Expand FEP? Expand FEP? Expand CP? Expand CP? Expand RAM? Expand ROM?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory Read Only Memory	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RTU at SP. SSP? What is CPU? Expand RC? Expand RC? Expand TPC? Expand RTU? Expand FEP? Expand FEP? Expand RAM? Expand ROM? Expand DO card?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RTU at SP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand SRC? Expand FEP? Expand FEP? Expand CP? Expand CP? Expand ROM? Expand DO card? Expand DO card? Expand DI card?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card AC Input Card AC Input Card	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Analog Input card	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telesignals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telecentrol signals are sensed at SP. SSP? What is CPU? Expand RC? Expand RC? Expand TPC? Expand TPC? Expand FEP? Expand FEP? Expand CP? Expand RAM? Expand ROM? Expand DO card? Expand DO card? Expand DI card? Expand AI card?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input card Super Computer & Data	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RTU at SP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand SRC? Expand FEP? Expand FEP? Expand CP? Expand CP? Expand ROM? Expand DO card? Expand DO card? Expand DI card?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card Supervisory Computer & Data	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Analog Input card	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RCC? Expand RCC? Expand TPC? Expand TPC? Expand FEP? Expand FEP? Expand CP?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card Supervisory Computer & Data Acquisition	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Analog Input card Super Computer & Data Acquisition	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telesignals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telecentrol signals are sensed at SP. SSP? What is CPU? Expand RC? Expand RC? Expand TPC? Expand TPC? Expand FEP? Expand FEP? Expand CP? Expand RAM? Expand ROM? Expand DO card? Expand DO card? Expand DI card? Expand AI card?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Discrete Output Card Do Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Analog Input card Super Computer & Data Acquisition Switched Mode Power	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telesignals are sensed at RTU at How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telecontrol signals are sensed at SP,SSP? What is CPU? Expand RC? Expand RC? Expand TPC? Expand TPC? Expand FEP? Expand FP? Expand FP? Expand CP? Expand CP? Expand ROM? Expand DO card? Expand DO card? Expand DO card? Expand AI card? Expand SCADA? Expand SMPS?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card DC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input card Super Computer & Data Acquisition Switched Mode Power Supply	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply
465 466 467 468 469 470 471 472 473 474 475 476 477 480 481 482 483 484 485	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many teles signals are sensed at RTU at How many teles signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RC REXPART SENSE	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card AC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Analog Input card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation
465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RCQ? Expand RCQ? Expand RCQ? Expand SRC? Expand FEP? Expand FEP? Expand FEP? Expand PCP? Expand DO card? Expand DO card? Expand DO card? Expand DO card? Expand AI card? Expand SCADA? Expand SMPS? Expand OWS? Expand OWS? Expand LAN?	12 Monitoring 24 6 2 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network	15 Guiding 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input Card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network
465 466 467 468 469 470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487 488	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many teles signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? What is CPU? Expand RCC? Expand RCC? Expand RCC? Expand TPC? Expand TPC? Expand FEP? Expand FEP? Expand CP? Expand CP? Expand CP? Expand CP? Expand CP? Expand TPC? Expand TPC? Expand SCADA? Expand DO card? Expand DI card? Expand AI card? Expand SCADA? Expand SCADA? Expand SCADA? Expand SCADA? Expand SCADA? Expand SCADA?	12 Monitoring 24 6 2 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Wrong Area Network	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Work Area Network	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Input Card Dual Input Card Dual Input Card Analog Input card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network
465 466 467 468 469 470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RCQ? Expand RCQ? Expand RCQ? Expand SRC? Expand FEP? Expand FEP? Expand FEP? Expand PCP? Expand DO card? Expand DO card? Expand DO card? Expand DO card? Expand AI card? Expand SCADA? Expand SMPS? Expand OWS? Expand OWS? Expand LAN?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Modulator/	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Modulating Electronic	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Modified Electronic	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network
465 466 467 468 469 470 471 472 473 474 475 476 477 480 481 482 483 484 484 485	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SSP? What is CPU? Expand RC? Expand RC? Expand RC? Expand TPC? Expand RTU? Expand FEP? Expand FEP? Expand CP? Expand RAM? Expand DO card? Expand DO card? Expand DI card? Expand AI card? Expand SCADA? Expand SCADA? Expand OWS? Expand OWS? Expand WAN? Expand WAN? Expand MODEM?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Wrong Area Network Modulator/ Demodulator	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card AC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network Modifier/ Demodefier	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Work Area Network Work Area Network Modulating Electronic Machine	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Analog Input card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Wide Area Network Modified Electronic Machine	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network Modulator/ Demodulator
465 466 467 468 469 470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487 488	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many teles signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? What is CPU? Expand RCC? Expand RCC? Expand RCC? Expand TPC? Expand TPC? Expand FEP? Expand FEP? Expand CP? Expand CP? Expand CP? Expand CP? Expand CP? Expand TPC? Expand TPC? Expand SCADA? Expand DO card? Expand DI card? Expand AI card? Expand SCADA? Expand SCADA? Expand SCADA? Expand SCADA? Expand SCADA? Expand SCADA?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Modulator/	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Central Processor Rapid Access Memory Read Only Memory Read Only Memory Discrete Output Card DC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network Modifier/ Demodefier Modernized Diagram	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Work Area Network Modulating Electronic Machine Machine Diagram	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Modified Electronic	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network
465 466 467 468 470 471 472 473 474 475 476 477 480 481 482 483 484 484 485 486 487 488 489	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many telesignals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Ewand RCU? Expand RCC? Expand RCC? Expand TPC? Expand TPC? Expand TPC? Expand FEP? Expand FEP? Expand CP? Expand CP? Expand CP? Expand DO card? Expand DO card? Expand DI card? Expand DI card? Expand SCADA? Expand SCADA? Expand SCADA? Expand OWS? Expand OWS? Expand WAN? Expand MODEM?	Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Wrong Area Network Modulator/ Demodulator Mimic Diagram Board	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network Wider Area Network Wider Area Network Wider Area Network Modifier/ Demodefier Modernized Diagram Board	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Work Area Network Work Area Network Modulating Electronic Machine Machine Diagram Board	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Jual Input Card Analog Input card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Wide Area Network Modified Electronic Machine Master Diagram Board	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network Wide Area Network Modulator/ Demodulator Mimic Diagram Board
465 466 467 468 469 470 471 472 473 474 475 476 477 478 480 481 482 483 484 485 486 487 488 489	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SSP? What is CPU? Expand RC? Expand RC? Expand RC? Expand TPC? Expand RTU? Expand FEP? Expand FEP? Expand CP? Expand RAM? Expand DO card? Expand DO card? Expand DI card? Expand AI card? Expand SCADA? Expand SCADA? Expand OWS? Expand OWS? Expand WAN? Expand WAN? Expand MODEM?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Modulator/ Demodulator Mimic Diagram Board Un-interrupted power	Interacting 36 12 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Central Processor Central Processor Rapid Access Memory Read Only Memory Read Only Memory Discrete Output Card DC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network Modifier/ Demodefier Modernized Diagram	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Modulating Electronic Machine Machine Diagram Board Unbalanced Power	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Analog Input card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Wide Area Network Modified Electronic Machine	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network Modulator/ Demodulator
465 466 467 468 470 471 472 473 474 475 476 477 480 481 482 483 484 484 485 486 487 488 489	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many telesignals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SSP? What is CPU? Expand RC? Expand RC? Expand RC? Expand RC? Expand TPC? Expand RTU? Expand FEP? Expand CP? Expand CP? Expand RAM? Expand DO card? Expand DO card? Expand DI card? Expand SCADA? Expand SCADA? Expand SWPS? Expand OWS? Expand OWS? Expand MODEM? Expand MDB? Expand MDPS?	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Wrong Area Network Modulator/ Demodulator Mimic Diagram Board Un-interrupted power supply	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card AC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network Modifier/ Demodefier Modernized Diagram Board Uni-phase Supply	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Work Area Network Work Area Network Modulating Electronic Machine Machine Diagram Board Unbalanced Power Supply	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input Card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Wide Area Network Wide Area Network Wide Area Network Modified Electronic Machine Master Diagram Board Ultra Power Supply	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network Modulator/ Demodulator Mimic Diagram Board Un-interrupted power supply
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465 466 467 468 470 471 472 473 474 475 476 477 480 481 482 483 484 484 485 486 487 488 489	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many telesignals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? Expand RCU? Expand RCC? Expand RCC? Expand RCC? Expand TPC? Expand TPC? Expand FEP? Expand FEP? Expand CP? Expand CP? Expand CP? Expand DO card? Expand DO card? Expand DI card? Expand AI card? Expand SCADA? Expand SMPS? Expand OWS? Expand OWS? Expand MAN? Expand MODEM? Expand MDPS? What type of cooling is provided for the power supply	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Wrong Area Network Modulator/ Demodulator Mimic Diagram Board Un-interrupted power supply	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card AC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network Modifier/ Demodefier Modernized Diagram Board Uni-phase Supply	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Work Area Network Work Area Network Modulating Electronic Machine Machine Diagram Board Unbalanced Power Supply	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input Card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Wide Area Network Wide Area Network Wide Area Network Modified Electronic Machine Master Diagram Board Ultra Power Supply	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network Modulator/ Demodulator Mimic Diagram Board Un-interrupted power supply
465 466 467 468 469 470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487 488 489 490	How many tele commands are sensed at RTU of SSP? How many tele signals are sensed at RTU of What is the process of scanning the RTU by How many tele signals are sensed at RTU at How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SSP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? How many telemetry are sensed at RTU at SP? Expand RCP? Expand RCP? Expand FP? Expand FP? Expand FP? Expand FP? Expand FP? Expand DO card? Expand DO card? Expand DO card? Expand DI card? Expand AI card? Expand SCADA? Expand SCADA? Expand GWS? Expand CAN? Expand WAN? Expand MODEM? Expand MODEM? Expand MDB? Expand UPS? What type of cooling is provided for the power	12 Monitoring 24 6 2 2 Core Processing Unit Remote Call centre Rapid Control Train Power Controller Supervisory Remote Control Remote Telephone Unit Front Execution Communication Random Access Read Once Memory DC Output Card Digital Input Card Auxiliary Input Card Supervisory Control & Data Acquisition Switch Main Power Supply Operating Work Section Large Area Network Wrong Area Network Modulator/ Demodulator Mimic Diagram Board Un-interrupted power supply	13 Interacting 36 12 4 4 4 Control Processing Unit Remote Command Remote Control Traction Phone controller Supervisory Rapid Control Remote Testing Unit Front End Processor Rapid Access Memory Read Only Memory Discrete Output Card DC Input Card AC Input Card AC Input Card AC Input Card Supervisory Computer & Data Acquisition Stable Mode Power Supply Operating WorkStation Limited Area Network Wider Area Network Modifier/ Demodefier Modernized Diagram Board Uni-phase Supply	14 Polling 12 24 6 8 Central Processing Unit Rapid Control Centre Route Control Traction Power circuit Section Remote Control Remote Terminal Unit Front End Programmer Control Processor Random Access Read Out Memory Digital output card Discrete Input Card Arithmetic Input Card Arithmetic Input Card Supervisory Control & Data Analysis Synchronous Mode Power Supply Operator WorkStation Local Area Network Work Area Network Work Area Network Modulating Electronic Machine Machine Diagram Board Unbalanced Power Supply	15 Guiding 48 48 48 8 12 Command Processing Remote Control Centre Resource Control Traction Power Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Supervisory Remote Controller Remote Train Unit Front End Printer Communication Rapid Access Machine Real-time Operating Memory Dual Output Card Dual Input Card Dual Input Card Super Computer & Data Acquisition Switched Mode Power Supply Operator Work Section Located Area Network Wide Area Network Wide Area Network Wide Area Network Modified Electronic Machine Master Diagram Board Ultra Power Supply	12 Polling 48 6 4 8 Central Processing Unit Remote Control Centre Remote Control Centre Remote Control Traction Power Controller Supervisory Remote Control Remote Terminal Unit Front End Processor Communication Processor Random Access Memory Read Only Memory Digital output card Digital Input Card Analog Input card Supervisory Control & Data Acquisition Switched Mode Power Supply Operating WorkStation Local Area Network Wide Area Network Modulator/ Demodulator Mimic Diagram Board Un-interrupted power supply

494	How many Contacts are available for CB?	6	8	4	2	4
495	Competency certificate for RC supervisor?	TR/09	TR/04	TR/06	TR/08	TR/09
496	What is the power supply required to SCADA system?	12V	24 V	110V	230V	24 V
497	What is the D.C voltage required to UPS?	110 V	230 V	24V	36V	110 V
498	What is meant by digital output(DO)?	Signal which goes out of RCC to RTU	Signal which comes to RCC from RTU	Signal which comes to RTU from other RTU	None of the above	Signal which goes out of RCC to RTU
499	What is meant by digital input(DI)?	Signal which goes out of RCC to RTU	Signal which comes to RCC from RTU	Signal which comes to RTU from other RTU	None of the above	Signal which comes to RCC from RTU
500	What is meant by Tele signal?	Signals which come from field	Signals which come from RCC	Both 'a' & 'b'	None of the above	Signals which come from field
501	What is the purpose of logic chasis?		It is used to process the field signals	Both 'a' & 'b'	None of the above	Both 'a' & 'b'