

TABLE-1: Equipments installed at 220/110/33/22KV receiving substation Semikeri,Bagalakot,KPTCL.

Sl.No	Equipment	Rating	Numbers
1	100MVA, 220/110/11kV Power Transformers	100MVA	2
2	20MVA, 110/33kV Power Transformer	20MVA	1
3	10MVA, 110/33kV Power Transformer	10MVA	1
4	Current transformer	220KV class 110KV class 33KV class 11KV class	26 48 12 23
5	Potential transformer	220KV class 110KV class 33KV class 11kV class	6 6 3 3
6	SF6 Circuit breaker	220KV class 110KV class 33kv class 11KV class	7 16 5 11
7	Isolators	220KV class 110KV class 33KV class 11KV class	34 75 11 11
8	Lighting arrester	220KV class 110KV class 33KV class	6 15 5

IV.MAINTENANCE SCHEDULE

Maintenance schedule is categorized into daily, weekly, monthly, quarterly and yearly maintenance schedules. Maintenance for

1. Power transformer (100 MVA, 20MVA, 10MVA)
 1. Check and re-condition of silica jelly.
 2. Check the working cooling fans, pumps
 3. Release gas from BH relay
 4. Clean the bushing, radiator, body etc.,
 5. Check earthing connection
 6. Check jump connections
 7. Check OLTC motor drive and control panel
 - i) Lubricate bearing and cleaning
 - ii) Check the gear box oil level
 - iii) Check operation of limit switch, sequence switch with transformer in off conditions
 - iv) Check gasket joints for oil leakage
2. HT Circuit breakers
 1. Clean the porcelains
 2. Check the connections for loose contact
 3. Check tripping through relays
 4. Check the wiring for loose contact
 5. IR valves, oil level for MOCB's
 6. Vermin Proofing of control box
 7. Check annunciation scheme
 8. Lubricate moving/link mechanisms wherever recommended by manufacturer
 9. Replacement of Oil (in case of MOCB(s))
3. HT: CT's, PT's & Lightning arresters.
 1. Clean the porcelain and metal body
 2. Check connection both primary and secondary for tightness
 3. Check oil level
 4. Take IR values

5. Check earth connection for proper contact
4. 11 kV Switchgears
 1. Clean the breakers, panels and bus bars thoroughly, clean insulators with CTC or Petrol
 2. Check IR values of the bus bars and individuals, breakers between phases and earth
 3. Check operation of breakers on local remote through relay and corresponding annunciation
 4. Check and lubricate operating mechanism wherever necessary
 5. Tighten the terminal connection of all auxiliary circuit and wiring
 6. Check all earth connections between the panel and electrodes for tightness and check the contact resistance of earth connection.
 7. Replace oil in MOCB's as recommended by supplier, check oil condition in BOCB's and replace if necessary
 8. Check contact travel, contact erosion in MOCB's and BOCB's
 9. Check 11 kV CT's and PT's connections
5. Isolator
 1. Check jump connection and replace PG clamps, if necessary
 2. Check the alignment of isolator
 3. Cleaning and applying petroleum jelly to contacts
6. GOS-HR fuses –Station yard Earthing
 1. Check clean and grease the GOS and check contacts for erosion, clean insulator
 2. Check operation for proper closing of the insulator
 3. Check the fuses and renew the same wherever HR fuses are provided
 4. Check the earth resistance of earthing mat and all individual earthing if any, the resistance should be within the prescribed limit, otherwise action should be taken to Boring the same to within limit immediately as it is very important aspect for the safety of the equipment in any station.

TABLE.2: Maintenance Schedule for Oil-Filled Power Transformers

Maintenance or Test	Recommended Interval
Review equipment ratings	5 years
Preventive maintenance	As Per manufacturer's recommendations
Transformer physical inspection	Annually
Bushings – visual inspection	Quarterly and 1-5 years
Bushings - check oil level	Weekly
Bushings – cleaning	1-5 years
Transformer and bushings - Dielec test	1-5 years (6 months to 1 year for suspect bushings)
Transformer and bushings- infrared scan	Annually
Insulating oil - DGA, physical, and chemical tests	Annually after first year of operation
Leakage resistance, Turns Ratio tests, SFRA test	If problems are indicated by other tests
Cooling fans – inspect and test	Annually
Oil pumps and motors - inspect and test	Annually
Heat exchangers – inspect	Annually
Conservator and bladder - inspect	1-5 years

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**Chicago (Ill.). Comptroller's Office.
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Air Force Manual United States. Department of the Air Force,1958 **Manual of Classification** Chicago (Ill.). Comptroller's Office. Statistical division,1918 ... *Manual of Classification; Revenue and Expenditure Accounts, Department Numbers and Commodity Code. Office of City Comptroller. Division of Statistics* Chicago (Ill.). Comptroller's Office. Division of Statistics,1918 Moody's Manual of Investments John Sherman Porter,1930 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54 *Moody's Manual of Investments, American and Foreign* ,1930 *The International Conference on Advanced Machine Learning Technologies and Applications (AMLTA2019)* Aboul Ella Hassanien,Ahmad Taher Azar,Tarek Gaber,Roheet Bhatnagar,Mohamed F. Tolba,2019-03-16 This book presents the peer reviewed proceedings of the 4th International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2019 held in Cairo Egypt on March 28 30 2019 and organized by the Scientific Research Group in Egypt SRGE The papers cover the latest research on machine learning deep learning biomedical engineering control and chaotic systems text mining summarization and language identification machine learning in image processing renewable energy cyber security and intelligence swarms and optimization Manual ,1958 **Manual of Electrical Undertakings and Directory of Officials** ,1920 *Proceedings of the Institution of Electrical Engineers* Institution of Electrical Engineers,1929 Vols for 1970 79 include an annual special issue called IEE reviews **Journal of the Institution of Electrical Engineers** ,1929 *The Public Health Manual* New York (State).,New York (State). Department of Health,1927 *The Engineering Index* ,1929 **IEEE Recommended Practice for Electric Power Distribution for Industrial Plants** Institute of Electrical and Electronics Engineers,IEEE Industry Applications Society. Power Systems Engineering Committee,1994 A thorough analysis of basic electrical systems considerations is presented Guidance is provided in design construction and continuity of an overall system to achieve safety of life and preservation of property reliability simplicity of operation voltage regulation in the utilization of equipment within the tolerance limits under all load conditions care and maintenance and flexibility to permit development and expansion Recommendations are made regarding system planning voltage considerations surge voltage protection system protective devices fault calculations grounding power switching transformation and motor control apparatus instruments and meters cable systems busways electrical energy conservation and cost estimation Moody's Manual of Industrial and Miscellaneous Securities ,1915 **Municipal Manual** Winnipeg (Man.),1991 **Journal** ,1929 Includes annual report of its council 1941 48 in pt 1 **Proceedings of the American Electric Railway Engineering Association ... Containing a Complete Report of the ... Annual Convention, Held at ...** American Electric Railway Engineering Association. Convention,American Electric Railway Association,1922 *Transactions of the American Institute of Electrical Engineers*

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generally engineers try to avoid vibrations because

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vibration fundamentals with solved examples is essential