

## इ रि से ट बाहरी दूरसंचार प्रयोगशाला प्रयोग नं: एल पी - 1

## IRISET OUTDOOR TELECOMMUNICATION LABORATORY EXPERIMENT NO.: LP - 1

नाम Name : अनुक्रमांक Roll No : पाठ्यक्रम Course : दिनांक Date :	प्राप्त अंक Marks Awarded अनुदेशक का अधाक्षर Instructor Initial	:
PURPOSE: Identification of Line Wire Mate	erials and fixing them in the	appropriate place.
I. Identify the following materials from the p	oost in the laboratory and mo	ention their uses:-
1. Lighting Conductor – (TCA – 557)		
2. PIN type porcelain insulators:		(IS: 283 – 1958)
a) DS Large:		
b) DS Small:		
c) Pot head insulators:		
3. Channel Iron Brackets:	(IRS Drawir	ngs TC 501 to 508) (TC 512 to 513)
(Indicate the differences in these type of bra	ackets with spacings)	(10 312 to 313)
a) Main Line:		
b) Main Line (Special):		
c) Local Line:		
4. U. Back (or) (U Bolts)	(Dra	w rough sketch)
<ul> <li>a) U – Back for fitting the cross – arm on the flange side</li> <li>(TCA – 501 &amp; 502)</li> </ul>		
b) U – Back for fitting the cross arm on the Web side (TCA – 700 – 09)		
<ul> <li>c) U – Back for fitting the cross arm into tubular post.</li> </ul>		

- 5. Distant piece. 6. Stalk (IS – 1441) (Mention their uses) 1) PIN type stalk. 2) PIN type threaded stalk to screw a nut at the bottom. 3) J - stalk. 4) Swan neck stalk (Short) 5) Swan neck stalk (Large) (Draw a rough sketch) 7. Bat – (Bracket Attachment Terminal) (Mention the use). 8. Tie – (TC – 624) (Mention its use) 9. Strut (TC - 625) (Mention its use) 10. Transposition brackets: 11. Saddle: 12. Line Wire Materials used for:a) G.I. Wire -
  - (Draw a stay as provided to a post indicate the components on it and mention their purposes)
  - a) Straining Screw (TCA 571)

Diagram

b) Stay Wire (IS - 2146)

b) ACSR Wire -

13. Stay Assembly:

- c) Stay Rod (TC 551)
- d) Thimble
- e) Anchor (TC 555)
- f) Stay Clamp (TC 638, TC 637)

14. Strut Support		
15. Base Plate (TCA – 605)/Soil Plate		
II. Indicate the precautions to be taken wh	ile erection of a post.	
III. Mention the types of post and where the	ney are used:-	
<ul><li>III. Mention the types of post and where the second secon</li></ul>	ney are used:- Used for	(Draw Sketches)
		(Draw Sketches)
1. Rail Posts:		(Draw Sketches)
Rail Posts:     Rail Post (Single):		(Draw Sketches)
<ul><li>1. Rail Posts:</li><li>1. Rail Post (Single):</li><li>2. Coupled Post:</li></ul>		(Draw Sketches)
<ol> <li>Rail Posts:</li> <li>Rail Post (Single):</li> <li>Coupled Post:</li> <li>Tripod: (L-Pad)</li> </ol>		(Draw Sketches)

S.No.	Description of material	Required per Km	Required per 100 Kms	Remarks

Date: Signature of Trainee