

Corrigendum- I: Supply of Universal Pole Accessories and Joint Enclosures

Andhra Pradesh State FiberNet Limited

Corrigendum - I Dated: 12-03-2021

APSFL/Spares Requirement/342/2019-21, dated: 09-03-2021

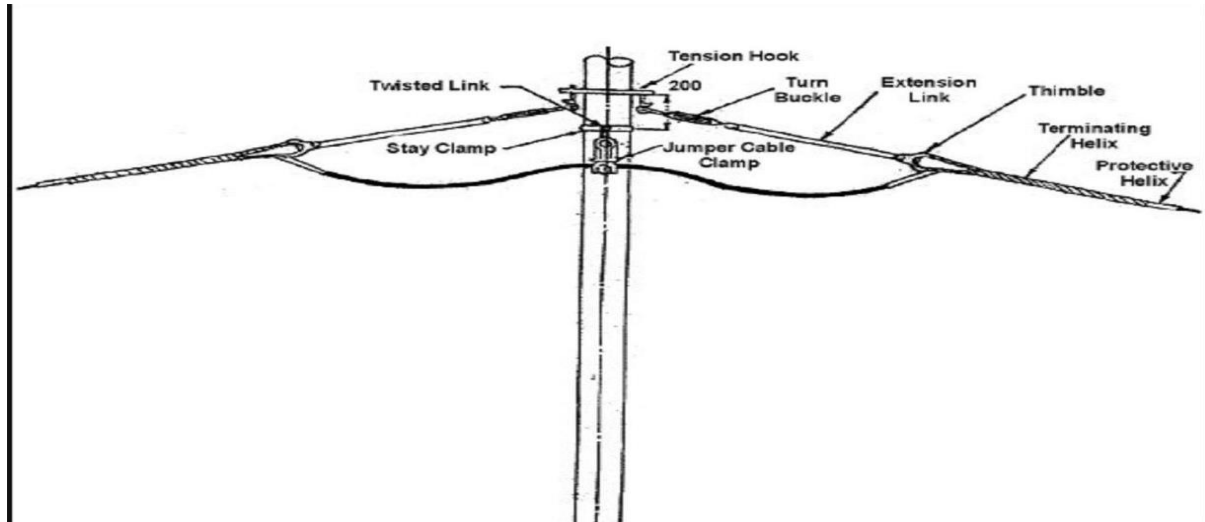
S. No	Section No	Page No	Existing Clause	Revised Clause
1	Annexure – VIII Minimum Technical Specifications	13		Refer Below for Technical Specifications

Annexure – VIII: Minimum Technical Specifications

Tech Specifications

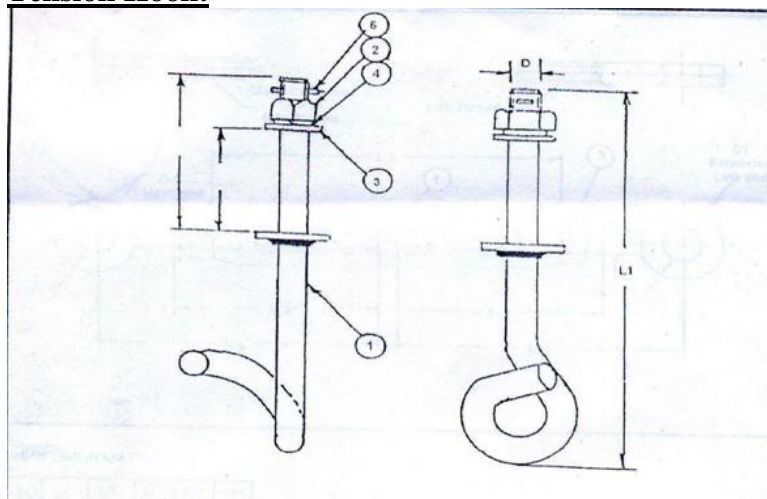
Universal Pole Accessories

Tension Pole Assembly (Clamp Set) – Should Contain following



- PA FO 500 Tension Clam-2Nos
- Cash T (Pole Bracket)-1Nos
- SS Trap -1.5 Metres
- SS Bucket- 2 Nos
- Twisted Link
- Stay Clamp
- Tension Hook
- Turn Buckle
- Extension Link
- Thimble
- Terminating Helix
- Jumper Cable Clamp
- Protective Helix

Tension Hook:



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Dimensions in MM:

L1	L2	L3	D
177	75	50	12

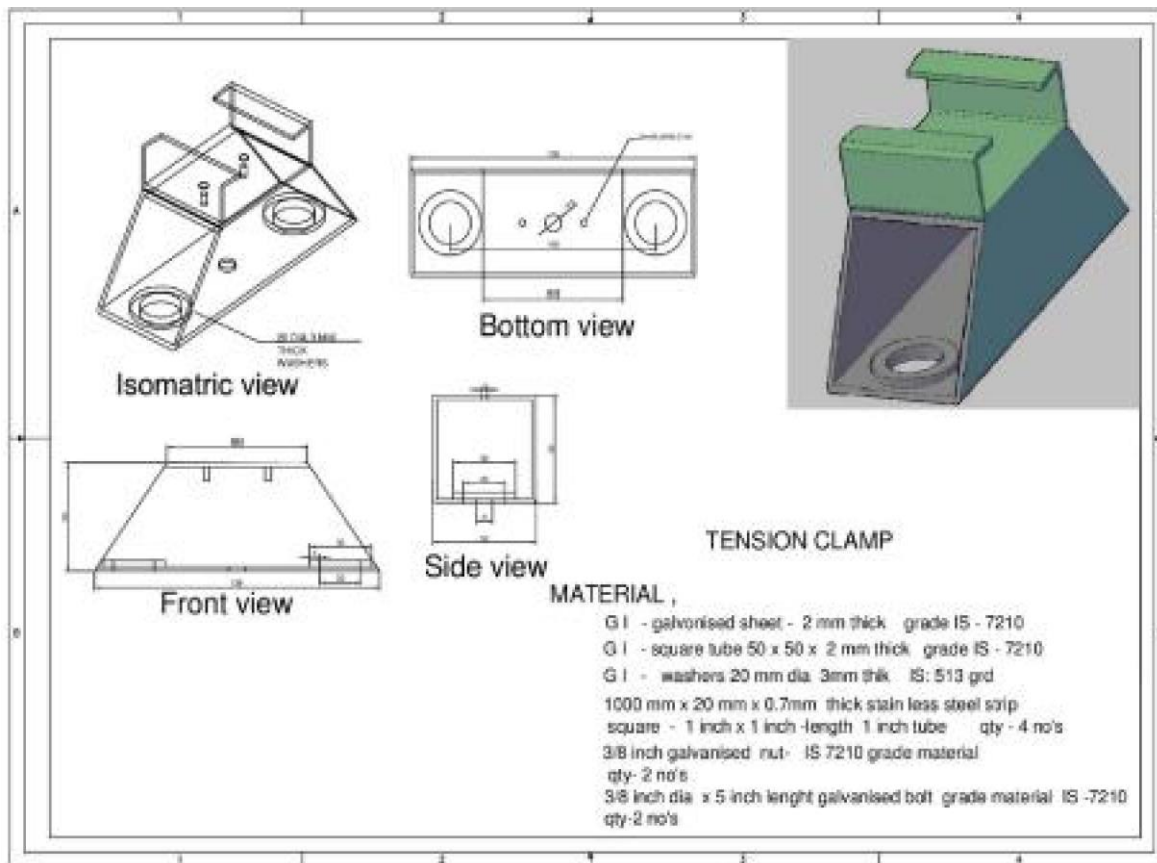
Note: - Tolerance shall be as per IS: 2102
(Detail as per GR, Unless UNTILL Specified)

To be used here C-Bracket is available on pole for fitment of Tension Hook.
HOT DIP GALVANISED as per IS.2629

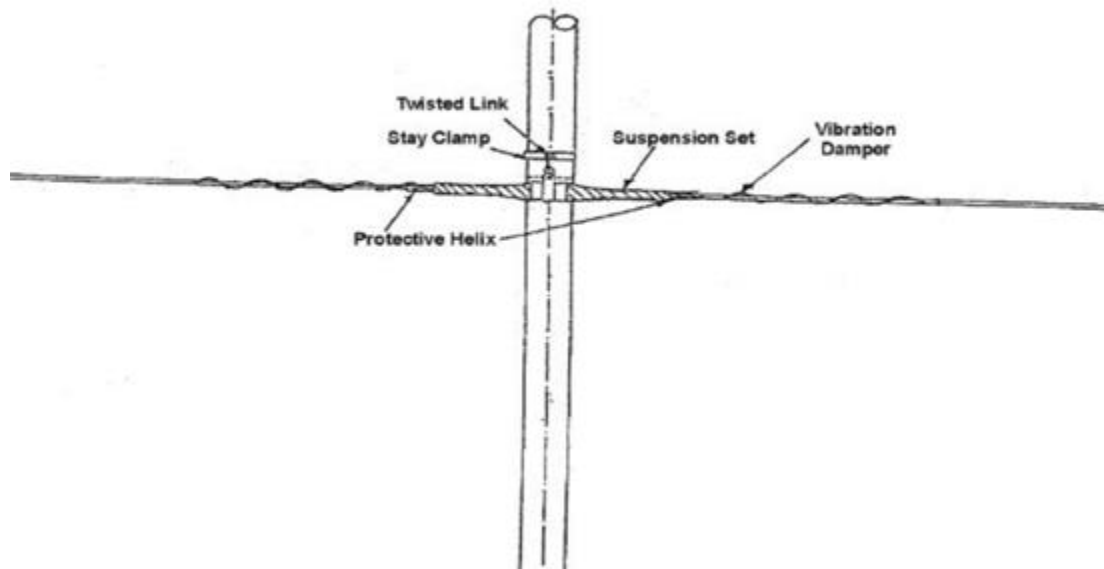
	Description	Material	Ref Spec	Qty
1	Body	Alloy Steel Galvanised	IS:2004	
2	Nut	Mild Steel Galvanised	IS:1363	
3	Plain Washer	Mild Steel Galvanised	IS:2016	
4	Spring Washer	Spring Steel Galvanised	IS:3063	
5	Spilt Pin	Stainless Steel	IS:549	

TENSION HOOK	
NOT TO SCALE	Unit-MM

Tension Clamp:

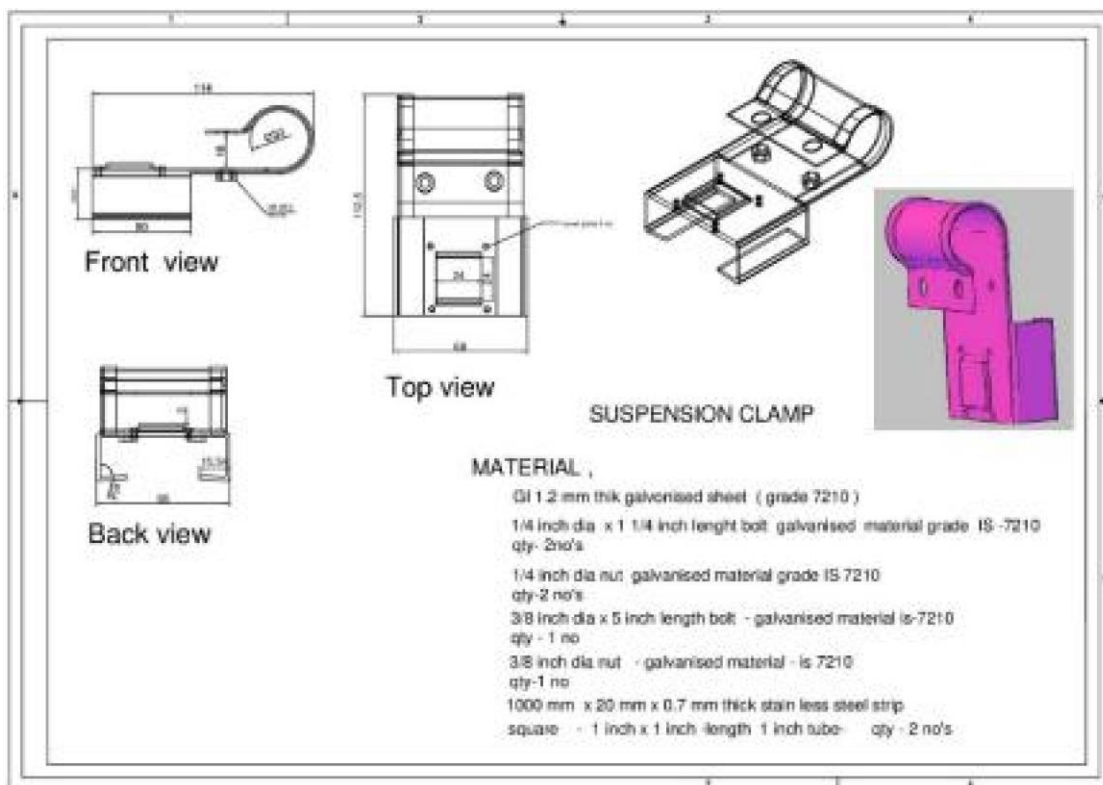


Suspension Pole Assembly (Clamp Set) : Should Contain Following

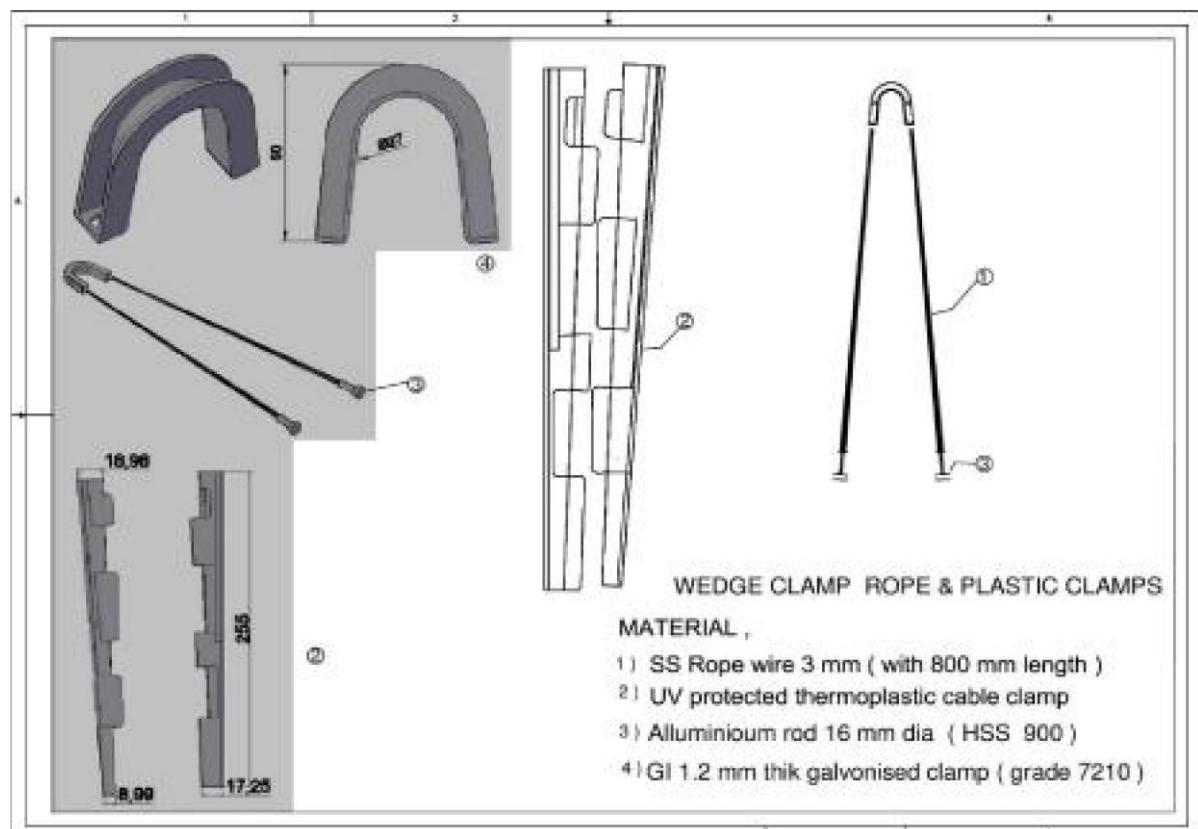


- PSR 8-20 Suspension Clamps-1 No
- SS Strap- 0.75 metres
- SS Buckle-1 Nos
- Twisted Link
- Stay Clamp
- Protective Helix
- Suspension Set
- Vibration Damper

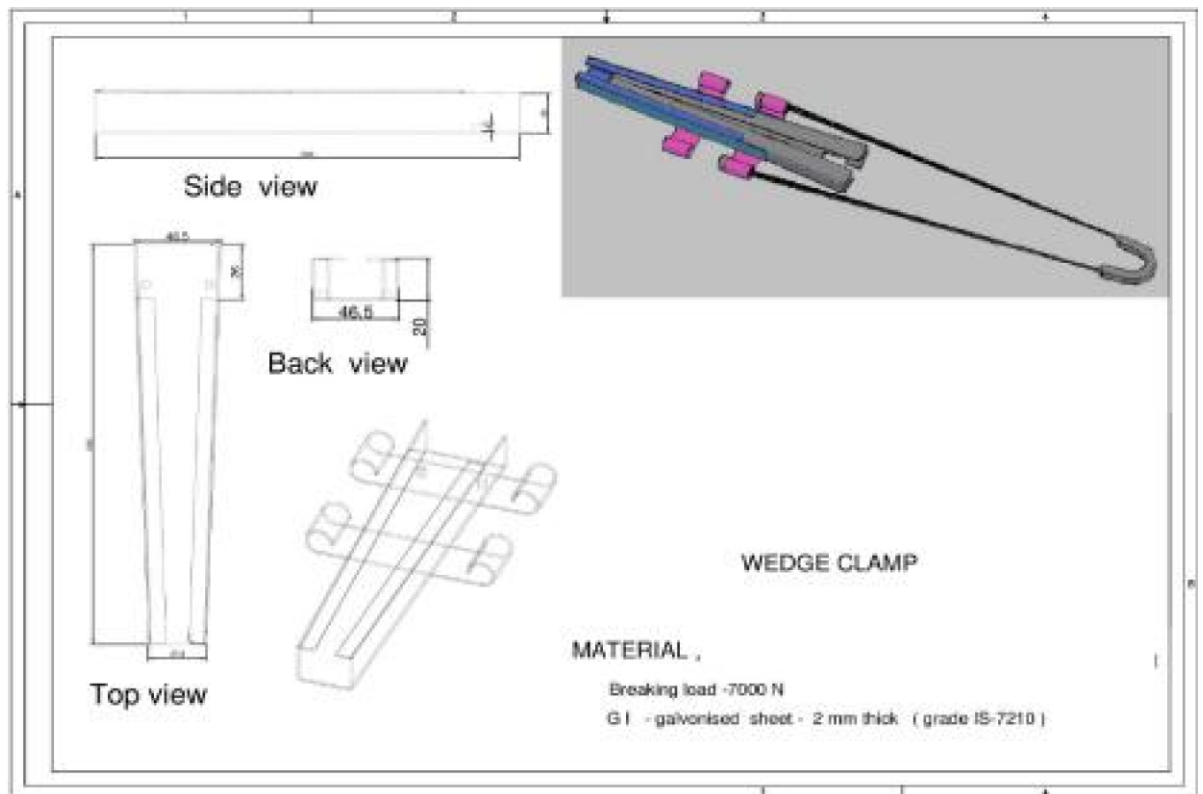
Suspension Clamp:



Wedge Clamp Wire Rope:



Wedge Clamp:



- Tension Clamp PA FO 500 D10 –D14
- Wedge clamp PA FO 500 Clamps-1 No

Supply of Joint Enclosure & Splicing

Features

- Standard fiber count 24 to 48 F
- Required 4 nos of cassetts with necessary accessories
- Universal type i.e. suitable for all type of cable (ADSS OFC, unarmoured, Armoured and metal free cable)
- Provide scope for straight / branch joints
- Resistant to chemicals and corrosive atmosphere.
- Easy re-entry and closing with mechanical plastic clamp.
- Shall be water and air proof.
- Ribs on the body for extra strength
- 6 Cable entry port & 1 oval port
- Suitable for cable size upto-30mm
- Mounting Bracket for erecting on pole vertically straight.
- Dome type

Dimensions

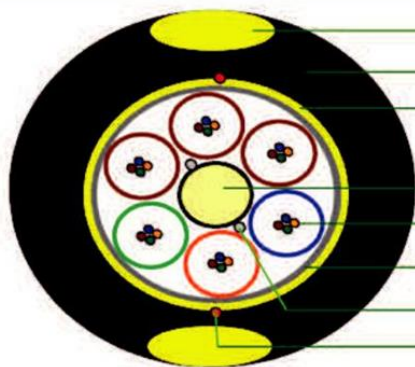
- Length-395mm $\pm 5\%$
- Outer diameter-273mm $\pm 5\%$



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Fiber Specifications:

24F ADSS (All – Dielectric Self-Supporting) Optical Fiber Cable

24F MT Dry Core Single Jacket ADSS Lite Optical Fiber Cable (Span:65m & Wind Speed:100Km/Hour)			
PRODUCT INFORMATION			
Fibre			
Single Mode Optical Fiber		Fiber ITU.T - G.652D	
Maximum Cabled Fiber Attenuation dB/Km		1310nm : 0.36 & 1490nm : 0.26 & 1550nm : 0.23 & 1625nm : 0.26	
PMD Cabled Individual Fiber (1310 & 1550 nm)		≤ 0.3 ps/√Km	
PMD LDV (1310 & 1550 nm)		≤ 0.2 ps/√Km	
Loose Tube			
Filling Gel		Thixotropic gel to prevent water ingress in loose tube	
Fiber Per Tube		4 Nos.	
Tube		6 Nos.	Thermoplastic Material (PBT)
Core			
Central Strength Member		Fibre Reinforce Plastic to provide tensile strength and antibuckling properties	
Water Blocking Material		Water Swellable Yarns are added to prevent water ingress inside cable core	
Core Wrapping		Binder Yarns or PP Tape with Water Swellable Tape	
Cable			
Rip Cords		2 Nos.	Polyester Based Yarns Applied Below OuterSheath
Peripheral Strength Member		Aramid Yarns are added to meet the required tensile strength	
Stripe Marking		Two yellow coloured stripe marking diagonally opposite 3 mm Minimum	
Outer Sheathing		UV Proof Black HDPE 1.5 mm Minimum Thickness	
CONSTRUCTIONAL DETAILS			
			
YELLOW COLORED STRIPE MARKING			
UV PROOF BLACK HDPE OUTER SHEATH			
ARAMID YARNS			
CENTRAL STRENGTH MEMBER			
LOOSE TUBES WITH FIBERS & GEL			
BINDER OR PP TAPE WITH WATER SWELLABLE TAPE			
WATER SWELLABLE YARNS			
RIPCORD (s)			
Typical Construction Diagram - Not To Scale			
OPTICAL FIBRE CABLE PERFORMANCE			
MECHANICAL		ENVIRONMENTAL	
Maximum Tensile Strength 3000 N at 0.25% Fiber Strain		Temp. Performance	
Repeated Bending 20D,30Cycle	Impact Load 50 N, 0.5 m	Installation	-10°C to +60°C
Bending Test 20D, 4Turns, 10Cycles		Operation	-20°C to +70°C
Crush Resistance 2500 N/100x100mm	Torsion ±180°	Storage & Transport	-20°C to +70°C
Water Penetration 1m head, 3m samples, 24 hrs		Drip Test	30 cm, 70°C, 24 hr
All tests shall be carried out as per IEC Standards. Change in attenuation shall be ≤ 0.05dB/Km			
LOADING CONDITIONS			
Span Length 65 m		Excess Load	
sag%		Wind Speed 100 Km/ Hour	
Installation Sag 1.0%		Ice Loading Zero	
Operation sag 1.5%			
COLOUR DETAILS			
Optical Fibre Colour	Blue, Orange, Green, Brown.		
Loose Tube Colour	Blue, Orange, Green, Brown, Slate, White.		
Outer Sheath Colour	Black		
PHYSICAL PARAMETERS			
Cable Diameter (mm, Nominal)	10.4±0.5	Cable Wt. (Kg/Km)	80±10
		Cable Length :	2 / 4 Km ± 5%
		Order Tolerance :	± 5 %
		Short Length :	MAX 5 %
PRINTING DETAILS			
Printing details (White - Hot Foil Emb.)		SM G652D 24F ADSS Laser Symbol Year of Manufacture Length Code Meter Marking	