

# Nepal Electricity Authority

(A Government of Nepal Undertaking)

## Distribution and Consumer Services Directorate



### BIDDING DOCUMENT FOR

*Design, Supply, Installation/Erection, Testing and Commissioning of  
11/0.4 kV Distribution System*

#### Single-Stage, Bidding Procedure

Invitation for Bids No. : GSEEP/W/ICB-4

**IDA Cr.** : Credit No. 5566-NP  
**Project Name** : Grid Solar and Energy Efficiency Project  
**Issued on** : .....  
**Employer** : Nepal Electricity Authority  
**Country** : Nepal

**PART 3 OF 3**

**September 2016**

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The Project Manager  
Grid Solar and Energy Efficiency Project  
Distribution and Consumer Service Directorate  
Nepal Electricity Authority  
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**Section IV:  
Price Schedule**



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***Schedule No. 1***  
***Plant and Mandatory Spare Parts Supplied from Abroad***



**Tender No. : GSEEP/ICB/W-4, Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System**

**Schedules of Rates and Prices**

Bidder's Name & Address :

**Schedule No. 1. Plant and Mandatory Spare Parts Supplied from Abroad**

S.L.	Item Description	Country of Origin	Unit	Qty	Unit Price exclusive of Custom Duty & VAT		Total Price
					Currency <sup>1</sup>	CIP Site	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (5)×(7)
<b>Part A : Equipments</b>							
<b>I) 11 kV Distribution System Expansion</b>							
<b>11-1 Supply and Delivery of Pole Structure type ( with crossarm channel, bracings, clamps, nutbolts, insulators and hardwares, wire fittings and necessary accessories all complete )for STP 11m</b>							
11-1.1	Single Arm Structure (SA)		Sets	3197			
11-1.2	Double Arm Structure (DA)		Sets	533			
11-1.3	Dead End Structure (DE)		Sets	106			
11-1.4	Double Dead End Structure (DDE)		Sets	1066			
11-1.5	Tap Off Structure (TO)		Sets	160			
11-1.6	H Structure (HS)		Sets	266			
<b>11-1a Supply and Delivery of Pole Structure type (with crossarm channel, bracings, clamps, nutbolts, insulators and hardwares, wire fittings and necessary accessories all complete) for PSC 11m</b>							
11--1a.1	Single Arm Structure (SA)		Sets	799			
11--1a.2	Double Arm Structure (DA)		Sets	133			
11--1a.3	Dead End Structure (DE)		Sets	27			
11--1a.4	Double Dead End Structure (DDE)		Sets	266			
11--1a.5	Tap Off Structure (TO)		Sets	40			
11--1a.6	H Structure (HS)		Sets	67			
<b>11-2 Supply, Delivery, Installation, Testing &amp; Commissioning of AAAC Conductor</b>							
11-2.1	100 sqmm AAAC Covered Conductor with required jointing sleeves		R-km	787			
11-2.2	55 sqmm AAAC Covered Conductor with required jointing sleeves		R-km	262			
<b>11-3 Supply, Delivery, Installation, Testing &amp; Commissioning of HT Stay Set With Complete Accessories &amp; Hardware</b>							
11-3.1	Type A		Set	3609			
11-3.2	Type B		Set	379			
11-3.3	Type C		Set	189			
<b>Sub Total</b>							
<b>II) 0.4 kV Distribution System Expansion</b>							
<b>0.4-1 Supply, Delivery, Installation, Testing &amp; Commissioning of Pole structures with complete Accessories &amp; Hardware for STP 8m</b>							
0.4-1.1	Type A		Sets	5498			
0.4-1.2	Type B		Sets	468			
0.4-1.3	Type C		Sets	312			
0.4-1.4	Type D		Sets	312			
0.4-1.5	Type E		Sets	312			
0.4-1.6	Type F		Sets	936			
<b>0.4-1a Supply, Delivery, Installation, Testing &amp; Commissioning of Pole structures with complete Accessories &amp; Hardware for PSC 8 m</b>							
0.4-1a.1	Type A		Sets	1365			
0.4-1a.2	Type B		Sets	117			
0.4-1a.3	Type C		Sets	78			
0.4-1a.4	Type D		Sets	78			
0.4-1a.5	Type E		Sets	78			
0.4-1a.6	Type F		Sets	234			
<b>0.4-2 Supply, Delivery, Installation, Testing &amp; Commissioning of ABC Cable</b>							
0.4-2.1	4x95 sq. mm ABC Cable with required jointing sleeves		ckt-km	158			
0.4-2.2	4x50 sq. mm ABC Cable with required jointing sleeves		ckt-km	158			
0.4-2.3	4x25 sq. mm ABC Cable with required jointing sleeves		ckt-km	79			
<b>0.4-3 Supply, Delivery, Installation, Testing &amp; Commissioning of LV Stay Set With Complete Accessories &amp; Hardware</b>							
0.4-3.1	Type A		Sets	3900			
0.4-3.2	Type B		Sets	195			
0.4-3.3	Type C		Sets	292			
<b>Sub Total</b>							
<b>III) Transformer Installation</b>							
<b>11/0.4 Supply, Delivery, Installation, Testing &amp; Commissioning of Transformer Structure with Complete Accessories &amp; Hardware</b>							
11/0.4.1	With STP structure		Sets	128			
11/0.4.2	With PSC structure		Sets	32			
<b>11/0.4-1 Supply, Delivery, Installation, Testing &amp; Commissioning of Transformer With Complete Accessories and Hardware</b>							
11/0.4-1.1	11/4 kV, 25 kVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Cutout & Fuse Links and 1Set of Outdoor Distribution Panel Board with 40 A, TP-1, 20 A, TP-2 20 A with copper busbar and hardware complete set		Sets	26			
11/0.4-1.2	11/4 kV, 50 kVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Cutout & Fuse Links and 1Set of Outdoor Distribution Panel Board with 75 A, TP-1, 40 A, TP-2 40 A with copper busbar and hardware complete set		Sets	80			



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## Schedule No. 1. Plant and Mandatory Spare Parts Supplied from Abroad

S.L.	Item Description	Country of Origin	Unit	Qty	Unit Price exclusive of Custom Duty & VAT		Total Price
					Currency <sup>1</sup>	CIP Site	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)= (5)×(7)
11/0.4.-1.3	11/4 kV,100 kVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Cutout & Fuse Links and 1Set of Outdoor Distribution Panel Board with 150 A, TP-1, 75 A, TP-2, 75 A with copper busbar and hardware complete set.		Sets	54			
11/0.4-2	Supply of Pre Construction Survey, Preparation of SDS and As Built Drawing, Charging the line etc		ckt-km	1418			
	<b>Sub Total</b>						
<b>Total for Schedule No. 1, Plant, Equipments &amp; Spare parts supplied from Abroad (I+II+III)</b>							

<sup>1</sup> Specify currency in accordance with specifications in Bid Data Sheet under ITB 18.1.

Date :

Place :

Signature : \_\_\_\_\_

Printed Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Common Seal : \_\_\_\_\_



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***Schedule No. 2***  
***Plant and Mandatory Spare Parts Supplied within Employer's Country***



**Tender No. : GSEP/ICB/W-4, Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System**

**Schedules of Rates and Prices**

Bidder's Name & Address :

**Schedule No. 2. Plant and Mandatory Spare Parts Supplied from within Employer's Country**

S.L.	Item Description	Unit	Qty	Unit Price CIP Site exclusive of VAT NRS	Total Price exclusive of VAT NRS
(1)	(2)	(3)	(4)	(5)	(6)= (4)×(5)
<b>Part A : Equipments</b>					
<b>I) 11 kV Distribution System Expansion</b>					
11-1	Supply and Delivery of Pole Structure type (with crossarm channel, bracings, clamps, nutbolts, insulators and hardwares, wire fittings and necessary accessories all complete) for STP 11m				
11-1.1	Single Arm Structure (SA)	Sets	3197		
11-1.2	Double Arm Structure (DA)	Sets	533		
11-1.3	Dead End Structure (DE)	Sets	106		
11-1.4	Double Dead End Structure (DDE)	Sets	1066		
11-1.5	Tap Off Structure (TO)	Sets	160		
11-1.6	H Structure (HS)	Sets	266		
11-1a	Supply and Delivery of Pole Structure type (with crossarm channel, bracings, clamps, nutbolts, insulators and hardwares, wire fittings and necessary accessories all complete) for PSC 11m				
11--1a.1	Single Arm Structure (SA)	Sets	799		
11--1a.2	Double Arm Structure (DA)	Sets	133		
11--1a.3	Dead End Structure (DE)	Sets	27		
11--1a.4	Double Dead End Structure (DDE)	Sets	266		
11--1a.5	Tap Off Structure (TO)	Sets	40		
11--1a.6	H Structure (HS)	Sets	67		
11-2	Supply, Delivery, Installation, Testing & Commissioning of AAAC Conductor				
11-2.1	100 sqmm AAAC Covered Conductor with required jointing sleeves	R-km	787		
11-2.2	55 sqmm AAAC Covered Conductor with required jointing sleeves	R-km	262		
11-3	Supply, Delivery, Installation, Testing & Commissioning of HT Stay Set With Complete Accessories & Hardware				
11-3.1	Type A	Set	3609		
11-3.2	Type B	Set	379		
11-3.3	Type C	Set	189		
	Sub Total				
<b>II) 0.4 kV Distribution System Expansion</b>					
0.4-1	Supply, Delivery, Installation, Testing & Commissioning of Pole structures with complete Accessories & Hardware for STP 8m				
0.4-1.1	Type A	Sets	5498		
0.4-1.2	Type B	Sets	468		
0.4-1.3	Type C	Sets	312		
0.4-1.4	Type D	Sets	312		
0.4-1.5	Type E	Sets	312		
0.4-1.6	Type F	Sets	936		
0.4-1a	Supply, Delivery, Installation, Testing & Commissioning of Pole structures with complete Accessories & Hardware for PSC 8m				
0.4-1a.1	Type A	Sets	1365		
0.4-1a.2	Type B	Sets	117		
0.4-1a.3	Type C	Sets	78		
0.4-1a.4	Type D	Sets	78		
0.4-1a.5	Type E	Sets	78		
0.4-1a.6	Type F	Sets	234		
0.4-2	Supply, Delivery, Installation, Testing & Commissioning of ABC Cable				
0.4-2.1	4x95 sq. mm ABC Cable with required jointing sleeves	ckt-km	158		
0.4-2.2	4x50 sq. mm ABC Cable with required jointing sleeves	ckt-km	158		
0.4-2.3	4x25 sq. mm ABC Cable with required jointing sleeves	ckt-km	79		
0.4-3	Supply, Delivery, Installation, Testing & Commissioning of LV Stay Set With Complete Accessories & Hardware				
0.4-3.1	Type A	Sets	3900		
0.4-3.2	Type B	Sets	195		
0.4-3.3	Type C	Sets	292		
	Sub Total				
<b>III) Transformer Installation</b>					
11/0.4	Supply, Delivery, Installation, Testing & Commissioning of Transformer Structure with Complete Accessories & Hardware		160		
11/0.4.1	With STP structure	Sets	128		
11/0.4.2	With PSC structure	Sets	32		
11/0.4.1	Supply, Delivery, Installation, Testing & Commissioning of Transformer With Complete Accessories and Hardware				
11/0.4.-1.1	11/4 kV, 25 kVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Cutout & Fuse Links and 1Set of Outdoor Distribution Panel Board with 40 A, TP-1, 20 A, TP-2 20 A with copper busbar and hardware complete set	Sets	26		
11/0.4.-1.2	11/4 kV, 50 kVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Cutout & Fuse Links and 1Set of Outdoor Distribution Panel Board with 75 A, TP-1, 40 A, TP-2 40 A with copper busbar and hardware complete set	Sets	80		
11/0.4.-1.3	11/4 kV, 100 kVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Cutout & Fuse Links and 1Set of Outdoor Distribution Panel Board with 150 A, TP-1, 75 A, TP-2 75 A with copper busbar and hardware complete set	Sets	54		
11/0.4.2	Supply of Pre Construction Survey, Preparation of SDS and As Built Drawing, Charging the line etc	ckt-km	1418		
	Sub Total				
<b>Total for Schedule No. 2. Plant and Mandatory Spare Parts Supplied from within Employer's Country(I+II+III)</b>					

Signature : \_\_\_\_\_

Printed Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Common Seal : \_\_\_\_\_

Date :

Place :





*Schedule No. 3*  
*Design Services*



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**Tender No. : GSEEP/ICB/W-4, Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System****Schedules of Rates and Prices**

Bidder's Name &amp; Address :

**Schedule No. 3. Design Services**

The rates or prices for the "Pre Construction Survey", "Preparation of SDS" and "As Built Drawing" shall be quoted in this schedule. The scope of the Contract also covers the detail design of the 11/0.4kV Distribution system. The bidder shall include prices for the detail design of the 11/0.4kV distribution system in the respective price schedules for "Supply", "Installation and Erection Charges.

Item	Description		Qty.	Unit Price		Total Price (Inclusive of all Taxes and VAT)	
				Local Currency Portion	Foreign Currency Portion (optional)	Local Currency Portion	Foreign Currency Portion (Optional)
(1)	(2)	(3)	(4)	(5)	(6)	(7)= (4) x (5)	(8)= (4) x (6)
1	Pre Construction Survey and Preparation of SDS.	ckt-km	709				
2	As Built Drawing, Charging the line etc	ckt-km	709				
<b>Total</b>							

Date :  
Place :

Signature : \_\_\_\_\_  
Printed Name : \_\_\_\_\_  
Designation : \_\_\_\_\_  
Common Seal : \_\_\_\_\_



***Schedule No. 4***  
***Installation and other Services***



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Tender No. : GSEEP/ICB/W-4, Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System

Schedules of Rates and Prices

Bidder's Name & Address :

Schedule No. 4. Installation and other Services

Sl.No.	Item Description	Unit	Qty	Unit Rate		Total Price (Inclusive of All Taxes and VAT)	
				Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)×(5)	(8)=(4)×(6)
<b>Part A : Installation/Erection</b>							
<b>I) 11 kV Distribution System Expansion</b>							
11-1	Supply and Delivery of Pole Structure type (with crossarm channel, bracings, clamps, nutbolts, insulators and hardwares, wire fittings and necessary accessories all complete) for STP Lin						
11-1.1	Single Arm Structure (SA)	Sets	3197				
11-1.2	Double Arm Structure (DA)	Sets	533				
11-1.3	Dead End Structure (DE)	Sets	106				
11-1.4	Double Dead End Structure (DDE)	Sets	1066				
11-1.5	Tap Off Structure (TO)	Sets	160				
11-1.6	H Structure (HS)	Sets	266				
11-1a	Supply and Delivery of Pole Structure type (with crossarm channel, bracings, clamps, nutbolts, insulators and hardwares, wire fittings and necessary accessories all complete) for PSC Lin						
11-1a.1	Single Arm Structure (SA)	Sets	799				
11-1a.2	Double Arm Structure (DA)	Sets	133				
11-1a.3	Dead End Structure (DE)	Sets	27				
11-1a.4	Double Dead End Structure (DDE)	Sets	266				
11-1a.5	Tap Off Structure (TO)	Sets	40				
11-1a.6	H Structure (HS)	Sets	67				
11-2	Supply, Delivery, Installation, Testing & Commissioning of AAAC Conductor						
11-2.1	100 mm AAAC Covered Conductor with required jointing sleeves	R-km	787				
11-2.2	55 sqmm AAAC Covered Conductor with required jointing sleeves	R-km	262				
11-3	Supply, Delivery, Installation, Testing & Commissioning of HT Stay Set With Complete Accessories & Hardware						
11-3.1	Type A	Set	3609				
11-3.2	Type B	Set	379				
11-3.3	Type C	Set	189				
	Sub Total						
<b>II) 0.4 kV Distribution System Expansion</b>							
0.4-1	Supply, Delivery, Installation, Testing & Commissioning of Pole structures with complete Accessories & Hardware for STP 8m						
0.4-1.1	Type A	Sets	5498				
0.4-1.2	Type B	Sets	468				
0.4-1.3	Type C	Sets	312				
0.4-1.4	Type D	Sets	312				
0.4-1.5	Type E	Sets	312				
0.4-1.6	Type F	Sets	936				
0.4-1a	Supply, Delivery, Installation, Testing & Commissioning of Pole structures with complete Accessories & Hardware for PSC 8m						
0.4-1a.1	Type A	Sets	1365				
0.4-1a.2	Type B	Sets	117				
0.4-1a.3	Type C	Sets	78				
0.4-1a.4	Type D	Sets	78				
0.4-1a.5	Type E	Sets	78				
0.4-1a.6	Type F	Sets	234				
0.4-2	Supply, Delivery, Installation, Testing & Commissioning of ABC Cable						
0.4-2.1	455 sq. mm ABC Cable with required jointing sleeves	ckt-km	158				
0.4-2.2	450 sq. mm ABC Cable with required jointing sleeves	ckt-km	158				
0.4-2.3	455 sq. mm ABC Cable with required jointing sleeves	ckt-km	79				
0.4-3	Supply, Delivery, Installation, Testing & Commissioning of LV Stay Set With Complete Accessories & Hardware						
0.4-3.1	Type A	Sets	3900				
0.4-3.2	Type B	Sets	195				
0.4-3.3	Type C	Sets	292				
	Sub Total						
<b>III) Transformer Installation</b>							
11.0.4	Supply, Delivery, Installation, Testing & Commissioning of Transformer Structure with Complete Accessories & Hardware		160				
11.0.4.1	With STP structure	Sets	128				
11.0.4.2	With PSC structure	Sets	32				
11.0.4-1	Supply, Delivery, Installation, Testing & Commissioning of Transformer With Complete Accessories and Hardware						
11.0.4-1.1	11.4 kV, 25 KVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Canal & Fuse Links and 1Set of Outdoor Distribution Panel Board with 40 A, TP-1, 20 A, TP-2, 20 A with copper busbar and hardware complete set	Sets	26				
11.0.4-1.2	11.4 kV, 50 KVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Canal & Fuse Links and 1Set of Outdoor Distribution Panel Board with 75 A, TP-1, 40 A, TP-2, 40 A with copper busbar and hardware complete set	Sets	80				
11.0.4-1.3	11.4 kV, 100 KVA Transformer with 3 nos. of Lightning Arrester, 3 nos. of Dropout Fuse Canal & Fuse Links and 1Set of Outdoor Distribution Panel Board with 150 A, TP-1, 75 A, TP-2, 75 A with copper busbar and hardware complete set	Sets	54				
11.0.4-2	Supply of Pre Construction Survey, Preparation of SDS and As Built Drawing, Charging the line etc	ckt-km	1418				
	Sub Total						
<b>Total for Schedule No. 4. Installation and other Services (I-II-III)</b>							

1 Specify currency in accordance with specifications in Bid Data Sheet under ITB 18.1.

Date :  
Place :

Signature : \_\_\_\_\_  
Printed Name : \_\_\_\_\_  
Designation : \_\_\_\_\_  
Common Seal : \_\_\_\_\_



***Schedule No. 5***  
***Grand Summary ( Schedule Nos. 1 to 4)***



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**Tender No. : GSEEP/ICB/W-4, Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System****Schedules of Rates and Prices****Bidder's Name & Address :****Schedule No. 5. Grand Summary (Schedule Nos. 1 to 4)**

Item	Description	Total Price <sup>1</sup>	
		Foreign Currency Portion	Local Currency Portion
(1)	(2)	(3)	(4)
1	Total Schedule No. 1. Plant, Equipment, and Mandatory Spare Parts Supplied from Abroad		
2	Total Schedule No. 2. Plant, Equipment, and Mandatory Spare Parts Supplied from Within the Employer's Country		
3	Total Schedule No. 3. Design Services		
4	Total Schedule No. 4. Installation and Other Services		
<b>Grand Total (to Bid Form)</b>			

Date :

Place :

Signature : \_\_\_\_\_

Printed Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Common Seal : \_\_\_\_\_

<sup>1</sup> Specify currency in accordance with specifications in Bid Data Sheet.

*Schedule No. 6*  
*Unit Price of Materials*



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**Nepal Electricity Authority**  
**Distribution and Consumer Services Directorate**  
**Grid Solar and Energy Efficiency Project**

(The Bidder shall Quote the Unit Price of Material)

**Package :GSEEP/W/ICB-04: Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System**

S. No.	Description of Goods	Unit	Rate (USD); Excluding Custom Duty and VAT
<b>1</b>	<b>HV/LV Poles</b>		
<b>A</b>	<b>Steel Tubular Poles</b>		
	11 m Steel Tubular Pole	USD/No.	
	9 m Steel Tubular Pole	USD/No.	
	8 m Steel Tubular Pole	USD/No.	
<b>B</b>	<b>PSC Poles</b>		
	11 m PSC Pole	USD/No.	
	9 m PSC Pole	USD/No.	
	8 m PSC Pole	USD/No.	
<b>2</b>	<b>HV/LV Conductors and Cables</b>		
a	100 sqmm AAAC Covered Conductor with required jointing sleeves	USD/R km	
b	55 sqmm AAAC Covered Conductor with required jointing sleeves	USD/R km	
c	4x95 sq. mm ABC Cable with required jointing sleeves	USD/km	
d	4x50 sq. mm ABC Cable with required jointing sleeves	USD/km	
e	4x25 sq. mm ABC Cable with required jointing sleeves	USD/km	
f	240/300 sqmm LV Copper Conductor Armoured Power Cable	USD/km	
<b>3</b>	<b>Distribution Transformers</b>		
a	11/0.4 kV,25 kVA	USD/No.	
b	11/0.4 kV,50 kVA	USD/No.	
c	11/0.4 kV,100 kVA	USD/No.	
d	11/0.4 kV,200 kVA	USD	
<b>A</b>	<b>LV ABC Cable Accessories</b>		
<b>i</b>	<b>Anchor Clamp</b>		
a	4x95 sq. mm	USD/No.	
<b>ii</b>	<b>Suspension Clamp</b>		
a	4x95 sq. mm	USD/No.	
<b>iii</b>	<b>Insulated Piercing Connectors</b>		
a	25-95 sqmm main- 25-95 sqmm Tap	USD/No.	
b	25-95 sqmm main- 4-25 sqmm Tap	USD/No.	
<b>iv</b>	<b>Jointing Sleeves</b>		
	for 95 sq. mm. ABC Cable	USD/No.	
<b>v</b>	<b>Insulated Cable End Cap</b>		
	Insulated Cable Caps for 95 sq. mm.	USD/No.	
<b>vi</b>	<b>Pigtail with Nuts and Washers</b>	USD/No.	
<b>vii</b>	<b>Core Separator</b>	USD/No.	
<b>viii</b>	<b>Insulated Spanner Suitable for IPCs</b>	USD/No.	
<b>B</b>	<b>HV Covered Conductor Accessories</b>		
<b>i</b>	Insulated Universal Piercing Connector	USD/No.	
<b>ii</b>	Mid span Insulated Jointing Sleeve	USD/No.	
<b>iii</b>	Insulated End Cap	USD/No.	
<b>iv</b>	Insulated Performed Pin Tie	USD/No.	
<b>v</b>	Dead End Clamp	USD/No.	
<b>5</b>	<b>Insulators and Hardware</b>		
a	33 kV Disc Insulator	USD/No.	
b	33 kV Pin Insulator with Spindle	USD/No.	
c	11 kV Disc Insulator	USD/No.	
d	11 kV Pin Insulator with Spindle	USD/No.	
e	Tension Set and Assemblies for 33 kV Disc Insulator	USD/No.	
f	Tension Set and Assemblies for 11 kV Disc Insulator	USD/No.	
g	HT Stay Insulator	USD/No.	
h	LT Stay Insulator	USD/No.	
<b>6</b>	<b>Stay, Fasteners and Connectors</b>		
<b>A</b>	<b>Stay Set</b>		
a	16 mm dia	USD/No.	
b	19 mm dia	USD/No.	
<b>B</b>	<b>Stay Wire</b>		
a	7/2.6 mm	USD/No.	
b	7/4 mm	USD/No.	
<b>C</b>	<b>Preformed Wire for Stay Set</b>		
a	Suitable For 7/2.6 mm	USD/No.	
b	Suitable For 7/4 mm	USD/No.	
<b>D</b>	<b>Clamps For Stay Set</b>		
a	Type (TC6) for HT Stay	USD/No.	
b	Type (TC8) for LV Stay	USD/No.	
c	Type (PC6) for HT Stay	USD/No.	
d	Type (PC8) for LV Stay	USD/No.	





<b>E</b>	<b>Twisted Double Eye For Stay Set</b>	USD/No.	
<b>F</b>	<b>Bolts With Suitable Nuts and Washers</b>		
a	13x51 mm	USD/No.	
b	16x203 mm	USD/No.	
c	16x305 mm	USD/No.	
<b>G</b>	<b>Double Arming Bolts With Suitable Nuts and Washers</b>		
a	16x305 mm	USD/No.	
<b>H</b>	<b>Earthing Sets (16mm Copper Clad)</b>	USD/No.	
<b>I</b>	<b>UNIVERSAL PG CLAMP</b>	USD/No.	
<b>J</b>	<b>PIN INSULATORS TIES:-</b>		
<b>i)</b>	<b>11kV pin insulator top tie:</b>		
	i.) 100 mm2	USD/No.	
<b>ii)</b>	<b>11 kV pin insulator side tie:</b>		
	i.) 100 mm2	USD/No.	
<b>iii)</b>	<b>33 kV pin insulator top tie:</b>		
	i.) 100 mm2	USD/No.	
<b>iv)</b>	<b>33 kV pin insulator side tie:</b>		
	i.) 100 mm2	USD/No.	
<b>K</b>	<b>COMPRESSION CONNECTORS:-</b>		
<b>j)</b>	<b>Full Tension:</b>		
	i.) 100 mm2	USD/No.	
<b>ii)</b>	<b>Repair:</b>		
	i.) 100 mm2	USD/No.	
<b>7</b>	<b>Crossarms and Platforms</b>		
<b>A</b>	<b>Crossarm Channels</b>		
a	100x50x6.4x5x300 mm	USD/No.	
b	100x50x6.4x5x1200 mm	USD/No.	
c	100x50x6.4x5x2348 mm	USD/No.	
d	100x50x6.4x5x2390 mm	USD/No.	
e	100x50x7.5x5x300 mm	USD/No.	
f	100x50x7.5x5x1900 mm	USD/No.	
g	100x50x7.5x5x 3300 mm	USD/No.	
<b>B</b>	<b>Crossarm Brace</b>		
<b>a</b>	<b>Flat Cross-arm Brace</b>		
a	40x 6x 660 mm	USD/No.	
b	40x6x760 mm	USD/No.	
<b>b</b>	<b>H-Pole Bracing Angle</b>		
a	40x 40x 5x 2071 mm	USD/No.	
b	40x 40x 5x2719 mm	USD/No.	
c	40 x 40 x 5 x 2416 mm	USD/No.	
d	40 x 40 x 5 x 2868 mm	USD/No.	
<b>c</b>	<b>Strap for Insulator String</b>		
a	50x6x396 mm	USD/No.	
b	50x6x404 mm	USD/No.	
<b>C</b>	<b>Transformer Platform Complete</b>		
a	Steel Tubular Pole Structure	USD/No.	
b	PSC Pole Structure	USD/No.	
<b>D</b>	<b>Pole Clamps Complete With Nuts Bolts and Washers :-</b>		
<b>a</b>	<b>Semi-Circular</b>		
	Type (TC <sub>1</sub> ) for top cross arm	USD/No.	
	Type (TC <sub>2</sub> ) for main cross arm	USD/No.	
	Type (TC <sub>4</sub> ) for top H bracing	USD/No.	
	Type (TC <sub>5</sub> ) for bottom H bracing	USD/No.	
<b>b</b>	<b>Rectangle</b>		
	Type (PC <sub>1</sub> ) for top cross arm	USD/No.	
	Type (PC <sub>2</sub> ) for main cross arm	USD/No.	
	Type (PC <sub>4</sub> ) for top H bracing	USD/No.	
	Type (PC <sub>5</sub> ) for bottom H bracing	USD/No.	
<b>8</b>	<b>Switches, Cutouts, Lightning Arrester and Panelboard</b>		
<b>A</b>	<b>Switches, Cutouts and Lightning Arrester</b>		
a	DO Fuse Set (11 kV)	USD/No.	
b	Lightning Arrester (9 kV)	USD/No.	
c	Fuse links		
i	1.3 A	USD/No.	
ii	2.5 A	USD/No.	
iii	5 A	USD/No.	
iv	10 A	USD/No.	
<b>B</b>	<b>Panelboard</b>		
a	Outdoor Distribution Panel Board with 40 A, TP-1, 20 A, TP-2 40 A with copper busbar and hardware complete set for 25 kVA Transformer	USD/Set	
b	Outdoor Distribution Panel Board with 75 A, TP-1, 40 A, TP-2 40 A with copper busbar and hardware complete set for 50 kVA Transformer	USD/Set	
c	Outdoor Distribution Panel Board with 150 A, TP-1, 75 A, TP-2 75 A with copper busbar and hardware complete set for 100 kVA Transformer	USD/Set	
d	Outdoor Distribution Panel Board with 300 A, TP-1, 150 A, TP-2	---	



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*Schedule No. 7*  
*Structure Details of Pole Hardware for 11 kV Line*



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## Details of pole Hardware for 11 kV Line

### STP-11

S.No	QTY./STRU.	Materials Description
<b>I</b>		
<b>Single Arm Structure (SA)</b>		
1	3	PIN INSULATOR WITH PIN
2	3	Insulated PREFORM PIN TIE
3	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
4	1	POLE CLAMP WITH NUTS AND BOLTS TOP (TC1)
5	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
6	1	POLE CLAMP WITH NUTS AND BOLTS MAIN (TC2)
7	2	FLAT CROSSARM BRACE (40x6x660)
8	2	BOLTS WITH SUITABLE NUTS AND WASHERS , 13 x 51 mm
9	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
10	1	POLE STEEL TUBULAR (11 m)
<b>II</b>		
<b>Line Tap (TO)</b>		
1	5	PIN INSULATOR WITH PIN
2	5	Insulated PREFORM PIN TIE
3	3	DISC INSULATOR
4	3	TENSION SET WITH ASSEMBLIES
5	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
6	1	POLE CLAMP WITH NUTS AND BOLTS TOP (TC1)
7	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
8	1	POLE CLAMP WITH NUTS AND BOLTS MAIN (TC2)
9	1	POLE CLAMP WITH NUTS AND BOLTS TAP (TC3)
10	4	FLAT CROSSARM BRACE (40x6x642)
11	4	BOLTS WITH SUITABLE NUTS AND WASHERS , 13 x 51 mm
12	2	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
13	6	Insulated Universal Piercing Connectors
14	6	Insulated End Cap
15	1	POLE STEEL TUBULAR (11 m)
<b>III</b>		
<b>Dead End (DE)</b>		
1	3	DISC INSULATOR
2	3	TENSION SET WITH ASSEMBLIES
3	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
4	1	POLE CLAMP WITH NUTS AND BOLTS TOP (TC1)
5	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
6	1	POLE CLAMP WITH NUTS AND BOLTS MAIN (TC2)
7	2	FLAT CROSSARM BRACE (40x6x642)
8	2	BOLTS WITH SUITABLE NUTS AND WASHERS , 13 x 51 mm
9	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
10	3	Insulated End Cap
11	1	POLE STEEL TUBULAR (11 m)



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IV		Double Dead End (DDE)
1	4	PIN INSULATOR WITH PIN
2	4	Insulated PREFORM PIN TIE
3	6	DISC INSULATOR
4	6	TENSION SET WITH ASSEMBLIES
5	6	Insulated Universal Piercing Connectors
6	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
7	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
8	4	FLAT CROSSARM BRACE (40x6x642)
9	12	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
10	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
11	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 203 mm
12	4	DOUBLE ARMING BOLTS WITH NUTS & WASHERS. 16 x 305 mm
13	4	STRAP FOR INSULATOR STRING (11 kV) (50x6x396) mm
14	6	Insulated End Cap
15	1	POLE STEEL TUBULAR (11 m)
V		H-Pole
1	3	PIN INSULATOR WITH PIN
2	3	Insulated PREFORM PIN TIE
3	6	DISC INSULATOR
4	6	TENSION SET WITH ASSEMBLIES
5	6	Insulated Universal Piercing Connectors
6	6	Insulated End Cap
7	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x2390 ) mm.
8	2	BRACING ANGLE ( 40 x 40 x 5 x 2719 ) mm.
9	2	BRACING ANGLE ( 40 x 40 x 5 x 2071) mm.
10	17	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
11	4	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
12	2	POLE CLAMP WITH NUTS AND BOLTS TOP H BRACING (TC4)
13	2	POLE CLAMP WITH NUTS AND BOLTS BOTTOM H BRACING (TC5)
14	6	STRAP FOR INSULATOR STRING (11 kV) (50x6x396) mm
15	2	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 203 mm
16	2	POLE STEEL TUBULAR (11 m)
VI		Double Arm Structure
1	6	PIN INSULATOR WITH PIN
2	6	Insulated PREFORM PIN TIE
3	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
4	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
5	4	FLAT CROSSARM BRACE (40x6x642)
6	4	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
7	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
8	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 203 mm
9	4	DOUBLE ARMING BOLTS WITH NUTS & WASHERS. 16 x 305 mm
10	1	POLE STEEL TUBULAR (11 m)

### PSC-11

S.No	QTY./STRU.	Materials Description
<b>I</b>		
<b>Single Arm Structure (SA)</b>		
1	3	PIN INSULATOR WITH PIN
2	3	Insulated PREFORM PIN TIE
3	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
4	1	POLE CLAMP WITH NUTS AND BOLTS TOP (PC1)
5	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
6	1	POLE CLAMP WITH NUTS AND BOLTS MAIN (PC2)
7	2	FLAT CROSSARM BRACE (40x6x660)
8	2	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
9	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
10	1	PSC Pole (11m)



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<b>II</b>		<b>Line Tap (TO)</b>
1	5	PIN INSULATOR WITH PIN
2	5	Insulated PREFORM PIN TIE
3	3	DISC INSULATOR
4	3	TENSION SET WITH ASSEMBLIES
5	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
6	1	POLE CLAMP WITH NUTS AND BOLTS TOP (PC1)
7	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
8	1	POLE CLAMP WITH NUTS AND BOLTS MAIN (PC2)
9	1	POLE CLAMP WITH NUTS AND BOLTS TAP (PC3)
10	4	FLAT CROSSARM BRACE (40x6x642)
11	4	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
12	2	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 305 mm
13	6	Insulated Universal Piercing Connectors
14	6	Insulated End Cap
15	1	PSC Pole (11m)
<b>III</b>		<b>Dead End (DE)</b>
1	3	DISC INSULATOR
2	3	TENSION SET WITH ASSEMBLIES
3	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
4	1	POLE CLAMP WITH NUTS AND BOLTS TOP (PC1)
5	1	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
6	1	POLE CLAMP WITH NUTS AND BOLTS MAIN (PC2)
7	2	FLAT CROSSARM BRACE (40x6x642)
8	2	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
9	1	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 305 mm
10	3	Insulated End Cap
11	1	PSC Pole (11m)
<b>IV</b>		<b>Double Dead End (DDE)</b>
1	4	PIN INSULATOR WITH PIN
2	4	Insulated PREFORM PIN TIE
3	6	DISC INSULATOR
4	6	TENSION SET WITH ASSEMBLIES
5	6	Insulated Universal Piercing Connectors
6	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
7	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
8	4	FLAT CROSSARM BRACE (40x6x642)
9	12	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
10	1	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 305 mm
11	1	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 203 mm
12	4	DOUBLE ARMING BOLTS WITH NUTS & WASHERS, 16 x 305 mm
13	4	STRAP FOR INSULATOR STRING (11 kV) (50x6x396) mm
14	6	Insulated End Cap
15	1	PSC Pole (11m)



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V		H-Pole
1	3	PIN INSULATOR WITH PIN
2	3	Insulated PREFORM PIN TIE
3	6	DISC INSULATOR
4	6	TENSION SET WITH ASSEMBLIES
5	6	Insulated Universal Piercing Connectors
6	6	Insulated End Cap
7	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x2390 ) mm.
8	2	BRACING ANGLE ( 40 x 40 x 5 x 2719 ) mm.
9	2	BRACING ANGLE ( 40 x 40 x 5 x 2071 ) mm.
10	17	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
11	4	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
12	2	POLE CLAMP WITH NUTS AND BOLTS TOP H BRACING (PC4)
13	2	POLE CLAMP WITH NUTS AND BOLTS BOTTOM H BRACING (PC5)
14	6	STRAP FOR INSULATOR STRING (11 kV) (50x6x396) mm
15	2	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 203 mm
16	2	PSC Pole (11m)
VI		Double Arm Structure
1	6	PIN INSULATOR WITH PIN
2	6	Insulated PREFORM PIN TIE
3	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x300 ) mm.
4	2	STEEL CROSSARM CHANNEL ( 100x50x6.4x5x1200 ) mm.
5	4	FLAT CROSSARM BRACE (40x6x642)
6	4	BOLTS WITH SUITABLE NUTS AND WASHERS . 13 x 51 mm
7	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 305 mm
8	1	BOLTS WITH SUITABLE NUTS AND WASHERS. 16 x 203 mm
9	4	DOUBLE ARMING BOLTS WITH NUTS & WASHERS. 16 x 305 mm
10	1	PSC Pole (11m)



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***Schedule No. 8***  
***Structure Details of Pole Hardware for 0.4 kV Line***



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**Details of pole Hardware for 0.4 kV Line****STP-8***A.Type*

S.No.	Quantity	Unit	Material
1	1	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Suspension Clamp
3	1	Nos.	Steel Tubular Poles (8 m)

*B.Type*

S.No.	Quantity	Unit	Material
1	2	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Suspension Clamp
3	1	Set	Anchor Clamp with Nuts and Bolts
4	8	Nos.	Insulated Piercing Connector
5	4	Nos.	Insulated End cap
6	1	Nos.	Steel Tubular Poles (8 m)

*C.Type*

S.No.	Quantity	Unit	Material
1	2	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	4	Set	Anchor Clamp with Nuts and Bolts
3	24	Nos.	Insulated Piercing Connector
4	16	Nos.	Insulated End cap
5	1	Nos.	Steel Tubular Poles (8 m)

*D.Type*

S.No.	Quantity	Unit	Material
1	1	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	2	Set	Anchor Clamp with Nuts and Bolts
3	8	Nos.	Insulated Piercing Connector
4	8	Nos.	Insulated End cap
5	1	Nos.	Steel Tubular Poles (8 m)

*E.Type*

S.No.	Quantity	Unit	Material
1	2	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Suspension Clamp
3	2	Set	Anchor Clamp with Nuts and Bolts
4	16	Nos.	Insulated Piercing Connector
5	8	Nos.	Insulated End cap
6	1	Nos.	Steel Tubular Poles (8 m)

*F.Type*

S.No.	Quantity	Unit	Material
1	1	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Anchor Clamp with Nuts and Bolts
3	4	Nos.	Insulated End cap
4	1	Nos.	Steel Tubular Poles (8 m)

**PSC-8***A.Type*

S.No.	Quantity	Unit	Material
1	1	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Suspension Clamp
3	1	Nos.	PSC Poles (8 m)

*B.Type*

S.No.	Quantity	Unit	Material
1	2	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Suspension Clamp
3	1	Set	Anchor Clamp with Nuts and Bolts
4	8	Nos.	Insulated Piercing Connector
5	4	Nos.	Insulated End cap
6	1	Nos.	PSC Poles (8 m)

*C.Type*

S.No.	Quantity	Unit	Material
1	2	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	4	Set	Anchor Clamp with Nuts and Bolts
3	24	Nos.	Insulated Piercing Connector
4	16	Nos.	Insulated End cap
5	1	Nos.	PSC Poles (8 m)

*D.Type*

S.No.	Quantity	Unit	Material
1	1	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	2	Set	Anchor Clamp with Nuts and Bolts
3	8	Nos.	Insulated Piercing Connector
4	8	Nos.	Insulated End cap
5	1	Nos.	PSC Poles (8 m)

*E.Type*

S.No.	Quantity	Unit	Material
1	2	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Suspension Clamp
3	2	Set	Anchor Clamp with Nuts and Bolts
4	16	Nos.	Insulated Piercing Connector
5	8	Nos.	Insulated End cap
6	1	Nos.	PSC Poles (8 m)

*F.Type*

S.No.	Quantity	Unit	Material
1	1	Set	Pigtail with Hexagonal Nuts and Washers (16 x203) mm
2	1	Set	Anchor Clamp with Nuts and Bolts
3	4	Nos.	Insulated End cap
4	1	Nos.	PSC Poles (8 m)



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*Schedule No. 9*  
*Structure Details of Stay Hardware*



**Details of Stay Hardware for 11 kV Lines**

<b>A Type</b>		
<b>S.No</b>	<b>QTY./STRU.</b>	<b>Material Description</b>
1	1	STAY SET (STAY ROD,TURN BUCKLE, EYEBOLT 16 x 305 mm, THIMBLE EYE)
2	4	PREFORM FOR STAY WIRE 7/4 mm
3	1	STAY INSULATOR
4	12	7/4 mm STAY WIRE (m)
5	2	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC6)
6	1	DOUBLE EYE (TWISTED)
<b>B Type</b>		
<b>S.No</b>	<b>QTY./STRU.</b>	<b>Material Description</b>
1	2	STAY SET (STAY ROD,TURN BUCKLE, EYEBOLT 16 x 305 mm, THIMBLE EYE)
2	8	PREFORM FOR STAY WIRE 7/4 mm
3	2	STAY INSULATOR
4	24	7/4 mm STAY WIRE (m)
5	2	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC6)
6	2	DOUBLE EYE (TWISTED)
<b>C Type</b>		
<b>S.No</b>	<b>QTY./STRU.</b>	<b>Material Description</b>
1	1	STAY SET (STAY ROD,TURN BUCKLE, EYEBOLT 16 x 305 mm, THIMBLE EYE)
2	8	PREFORM FOR STAY WIRE 7/4 mm
3	2	STAY INSULATOR
4	40	7/4 mm STAY WIRE (m)
5	1	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC6)
6	1	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC8)
7	3	DOUBLE EYE (TWISTED)
8	1	STEEL TUBULAR POLES (8 m)



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**Details of Stay Hardware for 0.4 kV Lines**

<b>A Type</b>		
<b>S.No</b>	<b>QTY./STRU.</b>	<b>Material Description</b>
1	1	STAY SET (STAY ROD,TURN BUCKLE, EYEBOLT 16 x 305 mm, THIMBLE EYE)
2	4	PREFORM FOR STAY WIRE 7/2.6 mm
3	1	STAY INSULATOR
4	12	7/2.6 mm STAY WIRE (m)
5	2	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC6)
6	1	DOUBLE EYE (TWISTED)
<b>B Type</b>		
<b>S.No</b>	<b>QTY./STRU.</b>	<b>Material Description</b>
1	2	STAY SET (STAY ROD,TURN BUCKLE, EYEBOLT 16 x 305 mm, THIMBLE EYE)
2	8	PREFORM FOR STAY WIRE 7/2.6 mm
3	2	STAY INSULATOR
4	24	7/2.6 mm STAY WIRE (m)
5	2	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC6)
6	2	DOUBLE EYE (TWISTED)
<b>C Type</b>		
<b>S.No</b>	<b>QTY./STRU.</b>	<b>Material Description</b>
1	1	STAY SET (STAY ROD,TURN BUCKLE, EYEBOLT 16 x 305 mm, THIMBLE EYE)
2	8	PREFORM FOR STAY WIRE 7/2.6 mm
3	2	STAY INSULATOR
4	40	7/2.6 mm STAY WIRE (m)
5	1	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC6)
6	1	POLE CLAMP WITH NUTS AND BOLTS FOR STAY (TC8)
7	3	DOUBLE EYE (TWISTED)
8	1	STEEL TUBULAR POLES (8 m)



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*Schedule No. 10*  
*Structure Details of Transformer Hardware*



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**Transformer Structure Hardware for STP**

S.No	QTY./STRU.	Material Description
1	6	PIN INSULATOR WITH PIN
2	2	POLE TOP CROSS ARM CHANNEL OF SIZE (100x50x6.4x5x300)mm
3	2	CROSS ARM CHANNEL OF SIZE ( 100x50x6.4x5 x 1200) mm.
4	2	CROSS ARM CHANNEL OF SIZE ( 100x50x6.4x5 x 2348) mm.
5	1	TRANSFORMER PLATFORM
6	2	POLE CLAMPS WITH NUT & BOLTS TOP (TC1)
7	2	POLE CLAMPS WITH NUT & BOLTS MAIN (TC2)
8	2	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 203 mm
9	4	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 305 mm
10	2	EARTHING SET ( WITH GROUND RODS AND ACCESSORIES)
11	10	ANCHOR CLAMP WITH NUTS AND BOLTS
12	6	PREFORMED PIN INSULATOR TIE.
13	10	AAAC CONDUCTOR
14	6	DISC INSULATOR (MAX)
15	6	TENSION SET WITH ASSEMBLIES (MAX)
16	4	FLAT CROSSARM BRACE (40x6x642)
17	4	BOLTS WITH SUITABLE NUTS AND WASHERS ,13 x 51 mm
18	15	240/300 sqmm LV Copper Conductor Armoured Power Cable
19	2	POLE STEEL TUBULAR (11 m)

**Transformer Structure Hardware for PSC**

S.No	QTY./STRU.	Material Description
1	6	PIN INSULATOR WITH PIN
2	2	POLE TOP CROSS ARM CHANNEL OF SIZE (100x50x6.4x5x300)mm
3	2	CROSS ARM CHANNEL OF SIZE ( 100x50x6.4x5 x 1200) mm.
4	2	CROSS ARM CHANNEL OF SIZE ( 100x50x6.4x5 x 2348) mm.
5	1	TRANSFORMER PLATFORM
6	2	POLE CLAMP WITH NUTS AND BOLTS TOP (PC1)
7	2	POLE CLAMP WITH NUTS AND BOLTS MAIN (PC2)
8	2	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 203 mm
9	4	BOLTS WITH SUITABLE NUTS AND WASHERS, 16 x 305 mm
10	2	EARTHING SET ( WITH GROUND RODS AND ACCESSORIES)
11	10	ANCHOR CLAMP WITH NUTS AND BOLTS
12	6	PREFORMED PIN INSULATOR TIE.
13	10	AAAC CONDUCTOR
14	6	DISC INSULATOR (MAX)
15	6	TENSION SET WITH ASSEMBLIES (MAX)
16	4	FLAT CROSSARM BRACE (40x6x642)
17	4	BOLTS WITH SUITABLE NUTS AND WASHERS ,13 x 51 mm
18	15	240/300 sqmm LV Copper Conductor Armoured Power Cable
19	2	PSC pole (11 m)



*Handwritten signature or initials.*