

**FINECAB****FINECAB WIRES & CABLES PRIVATE LIMITED**

(AN ISO 9001 - 2015 COMPANY)

REGD OFFICE : 2-3-465/7 MINISTER ROAD, SECUNDERABAD - 500 003

Works : Plot No. 6 &amp; 20 Phase IV,IDA,Patancheru - 502 319, Sangareddy Dist. Telangana

TEL:27818908, 27816588, FAX (040) 27721916

EMAIL : finecabwires@gmail.com

**PACKING LIST**

DATE: 01.06.2019

CUSTOMER : M/s. TS TRANSCO A/c. of M/s. LAXMI TRANSMISSIONS  
P.O. NO. : LAXMI/Indravelly/FWCPL/2019-20/013 DT:18.04.2019  
REFERENCE : CPT 310/SE Const/DE-3/F.Indravelly(Utnoor)/D.No.730/19 dt:23.05.2019  
DESCRIPTION : Stranded Copper conductor PVC insulated, Extruded PVC inner sheathed unarmoured ,PVC Outer sheathed 1100 V conforming to IS:1554 (Part-1)1988  
PROJECT : (i) 132kv DC Line (67km) from the proposed 220/132kv SS Indravelly (Utnoor) to the existing 132/33kv Adilabad and (ii) 2 No.s 132kv Feeder Bays at existing 132/33kv SS Adilabad for 132kv Indravelly (Utnoor) incoming DC line in Adilabad Dist on Turnkey Basis

Sl. No	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs	*LCI Mtrs	FINAL LENGTH(Mtrs)
1	2C X 2.5 SQ.MM YY	EX/0519/124	984	4	980
2	2C X 2.5 SQ.MM YY	EX/0519/125	982	4	978
TOTAL			1966	8	1958

Sl. No	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs	*LCI Mtrs	FINAL LENGTH(Mtrs)
1	4C X 2.5 SQ.MM YY	EX/0419/161	1088	4	1084
2	4C X 2.5 SQ.MM YY	EX/0519/127	980		980
3	4C X 2.5 SQ.MM YY	EX/0519/135	984	4	980
4	4C X 2.5 SQ.MM YY	EX/0519/173	953		953
TOTAL			4005	8	3997

Sl. No	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs	*LCI Mtrs	FINAL LENGTH(Mtrs)
1	6C X 2.5 SQ.MM YY	EX/0519/134	1054	4	1050
2	6C X 2.5 SQ.MM YY	EX/0519/142	954	4	950
TOTAL			2008	8	2000

Sl. No	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs	*LCI Mtrs	FINAL LENGTH(Mtrs)
1	12C X 2.5 SQ.MM YY	EX/0519/137	995	4	991
2	12C X 2.5 SQ.MM YY	EX/0519/141	1013	4	1009
TOTAL			2008	8	2000

\* Length Consumed for Inspection

For FINECAB Wires &amp; Cables (P.) Ltd.,

  
01/06/19  
Mr. M. Chandu  
AE/QC/VS/TSTRANSCO /HYD.

  
Manager Q.A.

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TEL:27818908, 27816588, FAX (040) 27721916

EMAIL : finecabwires@gmail.com

**ACCEPTANCE TEST CERTIFICATE**

DATE: 01.06.2019

CUSTOMER : M/s. TS TRANSCO A/c. of M/s. LAXMI TRANSMISSIONS

P.O. NO. : LAXMI/Indravally/FWCPL/2019-20/013 DT:18.04.2019

DESCRIPTION : Stranded Copper conductor PVC insulated, Extruded PVC inner sheathed unarmoured, PVC Outer sheathed 1100 V conforming to IS:1554 (Part-1)1988

SIZE : 2C X 2.5 SQ.MM YY

S.No	TEST DESCRIPTION	SPECIFIED VALUE	OBSERVED VALUE			
			DRUM NO	EX/0519/124	EX/0519/125	EX/0519/125
1	Conductor Resistance at 20°C (Ω/km)	Max : 7.41	RED 7.27	BLACK 7.25	RED 7.26	BLACK 7.24
2	Annealing Test for Copper ( Before Stranding)	Min:22.5 %	NA			
3	Thickness of Insulation	Nom:0.90 mm	0.97	1.02	1.01	0.98
4	Thickness of Insulation	Min:0.71 mm	0.91	0.89	0.87	0.89
5	Thickness of Innersheath	Min:0.30 mm	0.52			
6	Thickness of Outer Sheath	Nom:1.80 mm	1.97			
7	Thickness of Outer Sheath	Min:1.24 mm	1.82			
8	Volume Resistivity of Insulation at 27°C	Min:1x10 <sup>13</sup> Ω-cm	13.7x10 <sup>13</sup>	4x10 <sup>13</sup>	30.7x10 <sup>13</sup>	35.6x10 <sup>13</sup>
9	Volume Resistivity of Insulation at 70°C	Min:1x10 <sup>10</sup> Ω-cm	18.9x10 <sup>10</sup>	19.3x10 <sup>10</sup>	20.2x10 <sup>10</sup>	18.4x10 <sup>10</sup>
10	High Voltage Test shall withstand	3 KVAC for 5 min	Withstood			
11	Tensile Strength of Insulation	Min: 12.5 N/mm <sup>2</sup>	16.2	17.7	17.3	15.9
12	% Elongation of Insulation	Min: 150%	224	232	229	231
13	Tensile Strength of Outer Sheath	Min: 12.5 N/mm <sup>2</sup>	15.2			
14	% Elongation of Outer Sheath	Min: 150%	218			

Printing

Test Witnessed by

*[Signature]*  
01/06/19

Mr. M. Chandu  
AE/QC/VS/TSTRANSCO /HYD.



: FINECAB 1100V ELECTRIC 2C X 2.5 SQMM YY TS TRANSCO

For FINECAB Wires & Cables (P) Ltd.,

*[Signature]*

Manager Q.A.

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DATE: 01.06.2019

**CUSTOMER** : M/s. TS TRANSCO A/c. of M/s. LAXMI TRANSMISSIONS

**P.O. NO.** : LAXMI/Indravelly/FWCPL/2019-20/013 DT:18.04.2019

**DESCRIPTION** : Stranded Copper conductor PVC insulated, Extruded PVC inner sheathed

unarmoured ,PVC Outer sheathed 1100 V conforming to IS:1554 (Part-1)1988

**SIZE** : 4C X 2.5 SQ.MM YY

S.No	TEST DESCRIPTION	SPECIFIED VALUE	OBSERVED VALUE							
			DRUM NO	EX/0419/161			EX/0519/135			
			RED	YELLOW	BLUE	BLACK	RED	YELLOW	BLUE	BLACK
1	Conductor Resistance at 20°C (Ω/km)	Max : 7.41	7.19	7.24	7.22	7.34	7.28	7.23	7.30	7.28
2	Annealing Test for Copper ( Before Stranding)	Min:22.5 %	NA							
3	Thickness of Insulation	Nom:0.90 mm	0.92	0.92	0.92	0.92	0.97	1.03	1.02	0.98
4	Thickness of Insulation	Min:0.71 mm	0.84	0.89	0.85	0.88	0.87	0.88	0.89	0.87
5	Thickness of Innersheath	Min:0.30 mm	0.54							
6	Thickness of Outer Sheath	Nom:1.80 mm	1.97							
7	Thickness of Outer Sheath	Min:1.24 mm	1.84							
8	Volume Resistivity of Insulation at 27°C	Min:1x10 <sup>13</sup> Ω-cm	37.3x10 <sup>13</sup>	42.4x10 <sup>13</sup>	30.9x10 <sup>13</sup>	35.2x10 <sup>13</sup>	34.9x10 <sup>13</sup>	37.7x10 <sup>13</sup>	30.4x10 <sup>13</sup>	33.5x10 <sup>13</sup>
9	Volume Resistivity of Insulation at 70°C	Min:1x10 <sup>10</sup> Ω-cm	23.7x10 <sup>10</sup>	18.5x10 <sup>10</sup>	24.6x10 <sup>10</sup>	25.7x10 <sup>10</sup>	18.5x10 <sup>10</sup>	23.3x10 <sup>10</sup>	24.7x10 <sup>10</sup>	20.8x10 <sup>10</sup>
10	High Voltage Test shall withstand	3 KVAC for 5 min	Withstood							
11	Tensile Strength of Insulation	Min: 12.5 N/mm <sup>2</sup>	16.4	18.3	17.2	15.5	15.7	16.3	17.3	16.9
12	% Elongation of Insulation	Min: 150%	234	229	235	241	236	234	229	235
13	Tensile Strength of Outer Sheath	Min: 12.5 N/mm <sup>2</sup>	16.2							
14	% Elongation of Outer Sheath	Min: 150%	237							

**Printing** : FINECAB 1100V ELECTRIC 4C X 2.5 SQMM YY TS TRANSCO

Test Witnessed by

*Mr. M. Chandu*  
01/06/19

Mr. M. Chandu  
AE/QC/VS/TSTRANSCO /HYD.



For FINECAB Wires & Cables Pvt. Ltd.

*Manager Q.A.*

Manager Q.A.

## FINECAB WIRES &amp; CABLES PRIVATE LIMITED

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## ACCEPTANCE TEST CERTIFICATE

DATE: 01.06.2019

CUSTOMER : M/s. TS TRANSCO A/c. of M/s. LAXMI TRANSMISSIONS

P.O. NO. : LAXMI/Indravally/FWCPL/2019-20/013 DT:18.04.2019

DESCRIPTION : Stranded Copper conductor PVC insulated, Extruded PVC inner sheathed

unarmoured ,PVC Outer sheathed 1100 V conforming to IS:1554 (Part-1)1988

SIZE : 6C X 2.5 SQ.MM YY

S.No	TEST DESCRIPTION	SPECIFIED VALUE	OBSERVED VALUE					
			DRUM NO	EX/0519/134		EX/0519/142		
			BLUE	GREY	YELLOW	BLUE	GREY	YELLOW
1	Conductor Resistance at 20°C ( $\Omega$ /km)	Max :7.41	7.29	7.20-7.30	7.24	7.22	7.14-7.28	7.18
2	Annealing Test for Copper ( Before Stranding)	Min:22.5 %	NA					
3	Thickness of Insulation	Norm:0.90 mm	0.99	0.95-1.01	0.98	0.97	0.94-1.02	0.99
4	Thickness of Insulation	Min:0.71 mm	0.88	0.89-0.92	0.86	0.88	0.85-0.90	0.87
5	Thickness of Innersheath	Min:0.30 mm	0.64					
6	Thickness of Outer Sheath	Norm:1.80 mm	1.98					
7	Thickness of Outer Sheath	Min:1.24 mm	1.79					
8	Volume Resistivity of Insulation at 27°C	Min:1x10 <sup>13</sup> $\Omega$ -cm	42.3x10 <sup>13</sup>	34.1x10 <sup>13</sup>	35.7x10 <sup>13</sup>	36.8x10 <sup>13</sup>	42.5x10 <sup>13</sup>	33.4x10 <sup>13</sup>
9	Volume Resistivity of Insulation at 70°C	Min:1x10 <sup>10</sup> $\Omega$ -cm	25.5x10 <sup>10</sup>	19.7x10 <sup>10</sup>	20.4x10 <sup>10</sup>	23.6x10 <sup>10</sup>	21.5x10 <sup>10</sup>	24.7x10 <sup>10</sup>
10	High Voltage Test shall withstand	3 KVAC for 5 min	Withstood					
11	Tensile Strength of Insulation	Min: 12.5 N/mm <sup>2</sup>	17.2	18.4	16.8	16.9	17.3	15.8
12	% Elongation of Insulation	Min: 150%	239	245	225	226	237	242
13	Tensile Strength of Outer Sheath	Min: 12.5 N/mm <sup>2</sup>	16.4					
14	% Elongation of Outer Sheath	Min: 150%	234					

## Printing

Test Witnessed by


  
01/06/19

Mr. M. Chandu

AE/QC/NS/TSTRANSCO /HYD.

: FINECAB 1100V ELECTRIC 6C X 2.5 SQMM YY TS TRANSCO

For FINECAB Wires &amp; Cables (P.) Ltd




Manager Q.A.

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**ACCEPTANCE TEST CERTIFICATE**

DATE: 01.06.2019

**CUSTOMER** : M/s. TS TRANSCO A/c. of M/s. LAXMI TRANSMISSIONS  
**P.O. NO.** : LAXMI/Indravelly/FWCPL/2019-20/013 DT:18.04.2019  
**DESCRIPTION** : Stranded Copper conductor PVC insulated, Extruded PVC inner sheathed unarmoured, PVC Outer sheathed 1100 V conforming to IS:1554 (Part-1)1988  
**SIZE** : 12C X 2.5 SQ.MM YY

S.No	TEST DESCRIPTION	SPECIFIED VALUE		OBSERVED VALUE						
		DRUM NO		EX/0519/137	EX/0519/141	EX/0519/141	EX/0519/141	EX/0519/141	EX/0519/141	
1	Conductor Resistance at 20°C (Ω/km)		Max :7.41	BLUE	GREY	YELLOW	BLUE	GREY	YELLOW	YELLOW
2	Annealing Test for Copper ( Before Stranding)		Min:22.5 %							NA
3	Thickness of Insulation		Nom:0.90 mm	0.98,1.05	0.97-1.04	0.96-1.02	0.97,1.01	0.96-1.03	0.97,0.99	0.97,0.99
4	Thickness of Insulation		Min:0.71 mm	0.86,0.89	0.85-0.90	0.87,0.89	0.88,0.89	0.84-0.90	0.86,0.88	0.86,0.88
5	Thickness of Innersheath		Min:0.30 mm		0.74					0.88
6	Thickness of Outer Sheath		Nom:2.0 mm		2.19					2.23
7	Thickness of Outer Sheath		Min:1.40 mm		2.02					2.03
8	Volume Resistivity of Insulation at 27°C		Min:1x10 <sup>13</sup> Ω-cm	43.7x10 <sup>13</sup>	30.6x10 <sup>13</sup>	35.4x10 <sup>13</sup>	32.7x10 <sup>13</sup>	42.8x10 <sup>13</sup>	31.1x10 <sup>13</sup>	31.1x10 <sup>13</sup>
9	Volume Resistivity of Insulation at 70°C		Min:1x10 <sup>10</sup> Ω-cm	23.4x10 <sup>10</sup>	18.7x10 <sup>10</sup>	24.2x10 <sup>10</sup>	17.4x10 <sup>10</sup>	25.9x10 <sup>10</sup>	20.4x10 <sup>10</sup>	20.4x10 <sup>10</sup>
10	High Voltage Test shall withstand		3 KVAC for 5 min		Withstood			Withstood		Withstood
11	Tensile Strength of Insulation		Min: 12.5 N/mm <sup>2</sup>	17.2	15.9	16.4	16.3	15.7	16.4	16.4
12	% Elongation of Insulation		Min: 150%	237	225	232	241	229	237	237
13	Tensile Strength of Outer Sheath		Min: 12.5 N/mm <sup>2</sup>		15.8			16.3		16.3
14	% Elongation of Outer Sheath		Min: 150%		234			222		222

**Printing** : FINECAB 1100V ELECTRIC 12C X 2.5 SQMM YY TS TRANSCO

Test Witnessed by

*(Signature)*  
01/06/19  
Mr. M. Chandu

AE/QC/NS/TSRANSCO /HYD.

For FINECAB Wires & Cables (P.) Ltd.



*(Signature)*

Manager Q.A.

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**ROUTINE TEST REPORT**

DATE:27.05.2019

CUSTOMER : M/s. TS TRANSCO A/c. of M/s. LAXMI TRANSMISSIONS  
P.O. NO. : LAXMI/Indravelly/FWCPL/2019-20/013 DT:18.04.2019  
DESCRIPTION : Stranded Copper conductor PVC insulated, Extruded PVC inner sheathed  
unarmoured, PVC Outer sheathed 1100 V conforming to IS:1554 (Part-1)1988

Sl. No.	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs.	Conductor Resistance @20 deg. C Max 7.41 Ohm/km	High Voltage Test 3KVAC for 5 minutes
1	2C X 2.5 SQ.MM YY	EX/0519/124	984	R-7.18,BK-7.21	WITH STOOD
2	2C X 2.5 SQ.MM YY	EX/0519/125	982	R-7.24,BK-7.20	WITH STOOD
		<b>TOTAL</b>	<b>1966</b>		
Sl. No.	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs.	Conductor Resistance @20 deg. C Max 7.41 Ohm/km	High Voltage Test 3KVAC for 5 minutes
1	4C X 2.5 SQ.MM YY	EX/0419/161	1088	R-7.17,Y-7.23,BL-7.21,BK-7.22	WITH STOOD
2	4C X 2.5 SQ.MM YY	EX/0519/127	980	R-7.23,Y-7.19,BL-7.22,BK-7.23	WITH STOOD
3	4C X 2.5 SQ.MM YY	EX/0519/135	984	R-7.19,Y-7.24,BL-7.21,BK-7.22	WITH STOOD
4	4C X 2.5 SQ.MM YY	EX/0519/173	953	R-7.22,Y-7.18,BL-7.20,BK-7.21	WITH STOOD
		<b>TOTAL</b>	<b>4005</b>		
Sl. No.	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs.	Conductor Resistance @20 deg. C Max 7.41 Ohm/km	High Voltage Test 3KVAC for 5 minutes
1	6C X 2.5 SQ.MM YY	EX/0519/134	1054	BL-7.23,GY-7.18-7.27,Y-7.22	WITH STOOD
2	6C X 2.5 SQ.MM YY	EX/0519/142	954	BL-7.22,GY-7.19-7.28,Y-7.23	WITH STOOD
		<b>TOTAL</b>	<b>2008</b>		
Sl. No.	SIZE & TYPE OF CABLE	Drum NO.	Qty. in Mtrs.	Conductor Resistance @20 deg. C Max 7.41 Ohm/km	High Voltage Test 3KVAC for 5 minutes
1	12C X 2.5 SQ.MM YY	EX/0519/137	995	BL-7.19,7.21,GY-7.19-7.26,Y-7.22,7.24	WITH STOOD
2	12C X 2.5 SQ.MM YY	EX/0519/141	1013	BL-7.20,7.24,GY-7.20-7.28,Y-7.19,7.23	WITH STOOD
		<b>TOTAL</b>	<b>2008</b>		

For FINECAB Wires &amp; Cables (P.) Ltd.,

Manager Q.A.

