CERTIFICATES, APPROVALS AND TEST REPORTS

TÜV-SÜD South Asia Pvt. Ltd., INDIA D.No 9-1-164, 4th Floor, Amsri Plaza, S.D. Road, Secundrabad-500003 Tel No. +91-40-66323316/17 Fax No. +91-40-66321872	INSPECTION VISIT REPORT No. TUV/HYD/GCL/KS/JULY/15/01 Date: 11.07.2015	TÜV SÜD South Asia	Choose certainty. Add value.

(A) Reference Document :-

1. PO No. PO No: 1101260903 Dtd:05.06.2015.
2. QAP No Ref QAP LT PVC-01 Dtd 08.07.2015 Rev.00, GCL/LT/XLPE/15-16/001 Dtd 07.07.2015 Rev.00
3. Data sheet No. Tech./TP/LT/AL/XLPE-3.5/EXT/F/15-16/0128 Dtd: 26.05.2015. Tech./CU/STD/PVC/EXT/STRIP/2.5/15-16/0128 Dtd: 26.05.2015, Tech./TP/LT/AL/XLPE-3.5/EXT/F/15-16/0132 Dtd. 27.05.2015.

(B) Detail of Inspection Activity :-

1. **TECHNICAL SPECIFICATION:** Test Witness for below mentioned Voltage Grade 1100V, insulation PVC/XLPE, Sheath: ST-I/ST-2, Annealed Bare Copper Conductor/Aluminum, GI Armoured Cable **LOT-1**

PO/BOQ SI. No	Item Description	PO/ BOQ Qty (in mtrs)	Drum No.	Now Offered Qty (in mtrs)	Accepted Qty (in mtrs)	Balance Qty (in mtrs)
00010/ 1 1	3.5C x 300 Sq.mm A2XFY	705/ 400	21-14-01090/2	394	390	10
00020/1 1	3.5C x 185 Sq.mm A2XFY	3700/3170	21-15-01434	675	671	Nil
			21-15-01435	514	514	Nil
			21-15-01438	459	459	Nil
			21-15-01439	460	460	Nil
			21-15-01442	520	516	Nil
			21-15-01445	590	590	Nil
00030/ 1 1	3.5C x 50 Sq.mm A2XFY	325/325	22-15-03850	330	326	Nil
00040/ 1 1	3.5C x 35 Sq.mm A2XFY	300/280	22-15-04277	286	282	Nil
00060/ 2 1	12C x 2.5 Sq.mm YFY(STD)	460/460	12-15-03803	473	469	Nil

Inspection was carried out with reference to PO, Approved QAP, Datasheet, IS: 1554 Part-1/7098 Part-1 & details as below.

a) **Visual:** Visual inspection performed on Cables for Surface finish on all drums, Length Check, 2 drum rewinding(185&300sq.mm), length (end) marking, Packing & Stenciling, embossing on cable & cable colors and found satisfactory

b) **Construction detail Check:** Dimensional checks were carried out as per Approved Data sheet all factors as per the data sheet were checked and results found within tolerance limit

c) **Electrical tests were witnessed:** Witness of Conductor resistance, High voltage test (3KV for 5 Minutes), and Insulation resistance (Volume Resistance) were found satisfactory

d) **Mechanical tests were witnessed:** Witness of Hot set (For XLPE insulation), Tensile strength & Elongation at break of insulation & sheath checked and test results were found satisfactory

(C) Document Reviewed :-

1. Routine Test Report and Internal Type test report
2. Raw Material Test Certificates.
3. In-process stage inspection report.
4. Calibration Status Reports.

(D) List of Calibration instruments:-

1. HV Tester
2. Insulation tester
3. Digital micro ohm meter
4. Million Mega ohm meter.
5. Vernier caliper.
6. Tensile Testing Machine.
7. Hot set tester

Above instruments were used and found in order. Summery sheet attached with this report for reference.

Doc. No. TSSA IS IVR_01 Rev.0 Dt. 10.12.14

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Bureau Veritas (India) Private Limited	FIELD INSPECTION REPORT BVI REF: IND.D.4.10.0405	Page 1 of 1 No. LITL/GCL/FIR/003 Date: 15/10/2015

Project: 3 X 660MW Koradi Thermal Power Plant, Koradi	Manufacturer: M/s Gloster Cables Ltd
Supply intended for: M/s. MAHAGENCO, Koradi TPS EXP Project	Order No: 5000001437 Dt 28.04.2015 Placed with M/s TCL
Inspection ordered by M/s Lanco Ifratech Ltd	
Supplier: M/s Lanco Infratech Ltd	Supply : LT XLPE Aluminium Power Cable
Issuer RC: BV-HYDERABAD	Executive RC: BV-Delhi
Drawing No: LITI-011-ELV-320-S-7188B	QAP No.: LITL-011-QAV-321-E-0001 Rev 03 Dt.14.12.2013

A] Measuring Instruments Used (including satisfactory verification of suitability)

Instrument Description (Type, Title, Mnfr)	Id / Serial No	Scale / Range	Certificate No	Calibration Due Date	Calibration Lab details (NABL,ISO17025 Acc,etc)
Digital weighing Balance	2303125	0.1 – 500 grms	15041058	09.04.2016	Ample Calibration Lab
Digital vernier caliper	11365647	0-150mm	11365647	09.04.2016	NNK ISC
Digital Vacume gauge ,Water Absorption)	610	0-760mm - Hg	15051606	15.05.2016	Ample Calibration Lab
Water absorbtion	W A-01	0-600 Deg.C	15011905	18.01.2016	Ample Calibration Lab

Quantity offered	Quantity accepted	Quantity rejected (#)
As per attached packing list	As per attached packing lilst	Nil

B] Details of Inspection Carried out: Inspection Date 07.10.2015

Attendees:

Mr.M.S.R Krishnamaraju -- M/s.Bureau Veritas India Pvt Ltd

Mr Aadinarayana -- M/s. Gloster Cables Ltd

This is a continuous report for FIR No. LITL/GCL/002 Dt 07.102.2015 and witnessed given below balance inspection activity

1. Witnessed water absorption test and found satisfactory
2. Reviewed in process inspection reports and found in order

Observations:-

1. Calibration done for instruments are at non NABL accreditation labs which are mentioned in above table. Client concurrence required for the same

Conclusion: With respect to Bureau Veritas scope of work the inspection is complete and the items found satisfactory subject to the acceptance of the above observations

* Category: (1) Accepted (2) Conditionally Accepted (3) Re-inspection Required (4) Rejected (5) Advice/instruction from client required

Inspection Date(s)	* ANY NON CONFORMITY FOUND?	Yes		
		No		
Inspection Place(s)	* ORDER STATUS	Complete		
		Balance	Supplier's Signature & Date Telephone no. 9440270393	Surveyor's Signature Stamp & Date Name: MSR Krishnamaraju Telephone no. 09885306345

* - Circle the relevant details OR strike out the non-relevant details

\# - Include the reasons for rejection in the 'details' of the report

Format FIR r5 – 19th Aug 2015

EASTERN POWER DISTRIBUTION COMPANY OF A.P. LIMITED
CORPORATE OFFICE :: VISAKHAPATNAM

From	To
The Chief General Manager, Purchase & Material Management, A.P.E.P.D.C.L., Corporate Office, T.P.T. Colony, Near Gurudwara, Seethammadhara, Visakhapatnam-530 013.	M/s Gloster Cables Ltd., 183/184 (5-370 to 372/A), IInd Floor, Above Mody Motors, Rashtrapathi Road, Secunderabad 500 003

Lr.No.CGM/P&MM/EPDCL/VSP/VR/P2/F.CI/D.No. 2333 /14, Dt: 17/06/2014.

Sirs,

Sub: EPDCL, VSP - Registration of your firm as approved vendor for supply of "Cables" - Regarding

Ref: 1) Vendor Application No.EVR1316/2013
2) Inspection Report of Assistant Divisional Engineer / Operation / Gajuwaka on dt.14.05.14

o-o-o

Referring to the above, you are registered as an approved vendor for supply of "Cables" with registration No **CGM/ P&MM / VR/CI/ No. 1281 / 2014-15.**

The registration is subject to the following conditions:

1) APEPDCL reserves the right to cancel your registration at any time without assigning any reason.
2) It is noted that you are a Manufacturer of the above material.
3) This registration, however, would not ho ld good for the global tenders to be floated under IDA/IBRD/USAID loan.
4) This registration will be valid upto 31-05-2016.
5) For considering renewal of vendor registration, you have to remit renewal fee of Rs.500/- in the shape of DD drawn in favour of Pay Officer, APEPDCL, Visakhapatnam from any Nationalized bank along with your application before 6 months of the expiry of validity period i.e. on or before 30-11-2015 along with the details of orders executed in APEPDCL.

You have to enclose a copy of reference of this letter to the tenders to be submitted to APEPDCL.

Yours faithfully,

CHIEF GENERAL MANAGER(P&MM)
A.P.E.P.D.C.L. : : VISAKHAPATNAM.

Copy to the Chief General Manager/P&MM/SPDCL, NPDCL, CPDCL.
Copy to the Chief General Manager/Expenditure/EPDCL/Visakhapatnam
Copy to the Chief General Manager/Projects/EPDCL/Visakhapatnam
Copy to the Superintending Engineer/Operation/Srikakulam, Vizianagaram, Visakhapatnam,Rajmundry,Eluru

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Format No. F/7.5/1/4 Issue No. 05

राइट्स लिमिटेड

Book No. 7596 | Set No. 045

RITES — THE INFRASTRUCTURE PEOPLE
CIN NO. U74899DL1974 GOI 007227

मूल प्रति: ठेकेदार बिल सहित
Original Copy: Contractor with Bill

RITES LIMITED
(Schedule 'A' Enterprise of Govt. of India.)
SOUTHERN REGION
Mount Chambers, 4th Floor,
758, Anna Salai, Chennai - 600 002
Ph : 044-2852 3364, Fax : 044 - 2852 5408
Email: srinspn@rites.com

Contains Continuation Sheet NIL

निरीक्षण प्रमाण - पत्र INSPECTION CERTIFICATE

Book No.	Set No.	Certificate No.	Date	Offered Inst. No. I
7596	045	NWR/S15110268/ESM	20.01.2016	Instalment No. Passed I & FINAL

Contractor	Manufacturer	Place of inspection
M/s. SHREE NURSING TIMBER AND ELECTRIC STORES-KOLKATA 18 RABINDRA SARANI PODDAR COURT GATE NO 4 2ND FLOOR ROOM NO.7AND 8 Gate 4 2nd floor KOLKATA – 700001 [03322355210]	M/s. Gloster Cables Limited, Survey No. 310/E, NH44, Kallakal (Vi), Toopran (Mn), Medak Dt. T.S - 502 336	M/s. Gloster Cables Limited, Survey No. 310/E, NH44, Kallakal (Vi), Toopran (Mn), Medak Dt. T.S - 502 336

Contract Reference	Date	Bill Paying Officer
-15-5206-1-50191, M.A.No.: 34-15-5206	03.11.2015 22.11.2015	Sr. DFM/BKN

Consignee	Purchasing Authority
SSE/ELECTRIC/HANUMANGARH	Sr. DMM/NWR/BKN North Western Railway, Bikaner, Rajasthan.

Item No. 1	Description of Stores 2	Quantity on Order 3	Cumulative Qty. offered previously 4	Quantity Previously Passed 5	Quantity now Offered 6	Quantity now Passed 7	Quantity now Rejected 8	Quantity Still Due 9
1	XLPE Steel armoured 11 kV cable PVC sheathed aluminium conductor confirming to IS: 7098 (Part-II) or latest, Size 3 X 70 Sqmm Make: Asslan, Nicco, Universal, CCI, Fort Gloster, Incab, polycab.	1000 mtrs	NIL	NIL	1009 mtrs	1001 mtrs	Nil	Nil

Quantity passed One thousand and one mtrs only
Drum No. 31-15-0994 - 505 mtrs
& 31-15-0995 - 504 mtrs
8 mtrs consumed during testing.

No. of Items Checked	Date of Call	No. of d Visits	Date(s) of Inspection
ONE	19.01.2016	TWO	19.01.2016 & 20.01.2016

Pattern of Sealing / Stamping and location of Seal / Stamp/Sticker
RITES Hologram Affixed on both ends of conductor.
RITES Hologram Sl. No : (S-2265004 to S-2265007)
High Security Hologram Sl no Range : (S-128988 to S-128996)
Pasted on the top of IC

मुहर / स्टाम्प की प्रतिकृति Facsimile of Seal / Stamp

Inspecting Engineer
E. SANTHANA MOORTHY
Asst. Inspecting Engineer
RITES/Southern Region

• अस्वीकृति का कारण Reasons for Rejection: NIL

* Strike off whichever is not applicable. It is certified that:-
1) The above stores were inspected (Col.6) passed (Col.7) & rejected (Col.8)
2) The stores were tendered within the time stipulated or as extended by the competent authority.
3) The material should be dispatched as early as possible. This certificate is valid for a period of 30 days for dispatch of stores

पंजीकृत कार्यालय: स्कोप मीनार, लक्ष्मी नगर, दिल्ली-110092 (भारत)

Registered office: SCOPE Minar, Laxmi Nagar, Delhi-110 092