



**KALPA-TARU®**

ISO 9001 CERTIFIED COMPANY

KALPATARU POWER TRANSMISSION LIMITED  
INTERNATIONAL PROJECTS  
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## **TO WHOM IT MAY CONCERN**

**Date: 24.04.2015**

**Project: Supply of Hardware Fittings and Accessories for 230 KV Almata-Muhomi-Mekele Transmission Line  
Project for EEPCO, Ethiopia**

**Reference: Contract No.- 33-20/168/0 (Contract ETSIP-1, Lot-3)  
Purchase Order No.- KP/PO/ASBESCO/2010-11/205 Dated 07.10.2011**

**This is to certify that M/s. Asbesco (India) Pvt. Ltd., 4, Ho-Chi Minh Sarani, Kolkata-700071, India has  
successfully supplied Hardware Fittings and Accessories for the above cited project as per Annexure-1 & 2.**

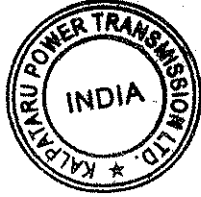
**The fittings and accessories supplied by Asbesco have been installed on line and they are found to perform  
satisfactory..**

**Regards,**

*Schidg*

**Authorized Signatory**

<b>Utility</b>	Ethiopian Electric Power Corporation
<b>Contractor</b>	Kalpataru Power Transmission Limited
<b>Manufacturer</b>	Asbesco (India) Private Limited
<b>Contract No:</b>	33-20/168/0 (Contract ETSIP-1, Lot-3)
<b>Purchase Order No:</b>	KP/PO/ASBESCO/2010-11/205 Dated 07.10.2011
<b>Items supplied</b>	Line Hardware Fittings and Accessories for Twin AAAC Ash Conductor
<b>Supply details</b>	As per Annexure-II



Sl. No.	Item Description	Unit	Quantity							Qty offered as per Inspection Dated 10.01.2013	Further offered/ waived Qty	Total supplied Qty by Mar'13 (Sets/Nos.)	Balance Qty (Sets/Nos.)	Full and final Qty supplied as per Insp Call dated 17.04.2013	
			Order	QC - 1	QC - 2	QC - 3	Total	Supplied as per IC Dated 10.08.2012 (Set/Nos.)	Balance						
<b>A Hardware Fittings suitable for Twin AAACASH Conductor - 230kV</b>															
1.0	Single Suspension set - Arcing Horn both ends (including armour rod) Dwg No. (ASS-526/G)	Set	975	641		349	990	641	349		349	990	0	0	
2.0	Double Suspension set - Arcing Horn both ends (including armour rod) Dwg No. (ADS-522/F)	Set	156	121		32	153	121	32		32	153	0	0	
3.0	Double Suspension set - Arcing Horn both ends (including armour rod) Dwg No. (ASS-522/F/W)	Set	0	0		18	18	0	18		18	18	0	0	
4.0	Double Tension set - Arcing Horn both ends (including armour rod) Dwg No. (ADT-523/D)	Set	1,290	755		421	1,176	755	421		421	1176	0	0	
5.0	Jumper set - without arcing horn (including armour rod) Dwg No. (ASS-526P/D)	Set	48	33		18	51	33	18		18	51	0	0	
6.0	Low duty set - Arcing Horn both ends	Set	0	0		6	6		6		6	6	0	0	
7.0	Reverse Low duty set - Arcing Horn both ends	Set	0	0		6	6		6		6	6	0	0	
8.0	T-Conector	Set	0	0		72	72		72		0	0	72	72	
9.0	Tension Clamp - (ADE/C/A-028A)	Set	0	0		22	22		22		22	22	0	0	
<b>10.0 Additional qty of item ASA-88A of DT set</b>															
10.1	Sag Adj. plat (ASA-88A) - 186mm	Set	0	0		6	6		6		6	6	0	0	
10.2	Sag Adj. plat (ASA-88A) - 211mm	Set	0	0		6	6		6		6	6	0	0	
10.3	Sag Adj. plat (ASA-88A) - 236mm	Set	0	0		6	6		6		6	6	0	0	
10.4	Sag Adj. plat (ASA-88A) - 261mm	Set	0	0		6	6		6		6	6	0	0	
10.5	Sag Adj. plat (ASA-88A) - 286mm	Set	0	0		6	6		6		6	6	0	0	
10.6	Sag Adj. plat (ASA-88A) - 311mm	Set	0	0		6	6		6		6	6	0	0	
10.7	Sag Adj. plat (ASA-88A) - 336mm	Set	0	0		6	6		6		6	6	0	0	
10.8	Sag Adj. plat (ASA-88A) - 361mm	Set	0	0		6	6		6		6	6	0	0	
10.9	Sag Adj. plat (ASA-88A) - 386mm	Set	0	0		6	6		6		6	6	0	0	
10.10	Sag Adj. plat (ASA-88A) - 411mm	Set	0	0		6	6		6		6	6	0	0	
10.11	Sag Adj. plat (ASA-88A) - 436mm	Set	0	0		6	6		6		6	6	0	0	
10.12	Fixed Strap (ABL-458A)	Set	0	0		666	666		666		552	552	114	114	
<b>11 Additional qty of Arcing Horn of SS &amp; DT set</b>															
11.1	Arcing Ring (T.S.) - (AAH/FR-3D)		0	0		45	45		45		45	45	0	0	
11.2	Arcing Ring (L.S.) - (AAH/FRB-17E)		0	0		25	25		25		25	25	0	0	
11.3	Arcing Ring (L.S.) - (AAH/FRB-17D)		0	0		20	20		20		20	20	0	0	
<b>12.0 Additional qty of Sus. Clamp of SS set</b>															
12.1	Suspension clamp assembly with P.A. Rod (12 No/Set) - (A-30 ASSY.1)	Set	0	0		20	20		20		20	20	0	0	
<b>13.0 Counter Weight</b>															
13.1	10 Kg Counter Weight	No	42	0		48	48		48		48	48	0	0	
13.2	20 Kg Counter Weight	No	64	58		0	52		52		52	52	0	0	
13.3	30 Kg Counter Weight	No	52	36		10	40		40		40	40	0	0	
13.4	40 Kg Counter Weight	No	94	18		10	22		22		22	22	0	0	
13.5	50 Kg Counter Weight	No	70	0		10	10		10		10	10	0	0	
13.6	60 Kg Counter Weight	No	118	0		10	10		10		10	10	0	0	
<b>B Conductor Accessories - AAACASH Conductor</b>															
6.0	Mid-Span Compression joint	No	514			514	514	0			0	514	0	0	
7.0	Repair Sleeve	No	58			58	2	60	58	2	2	60	0	0	
8.0	Vibration Dampers	No	8,944			7,650	1,116	8,766	3825	4,941	4,941	8,766	0	0	
9.0	Twin Line Spacer dampers	No	13,182			11,825	1,624	13,449	2500	10,949	2500	6000	11000	2,449	2,449
10.0	Rigid Twin Spacer for Jumper	No	1,746			1,440	135	1,575	1440	135	135	1575	0	0	

