



# BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

**PROCEEDINGS OF 57<sup>th</sup> MEETING OF BOARD OF DIRECTORS OF BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED HELD ON WEDNESDAY THE 02<sup>nd</sup> JANUARY 2013 AT 12:30 PM AT CORPORATE OFFICE, BESCOM, K.R.CIRCLE, BANGALORE.**

## MEMBERS PRESENT:

Sriyuths;

1. D.N.Narasimha Raju : Chairman
2. P. Manivannan : Managing Director
3. S. Selvakumar : Director
4. M. Maheshwara Rao : Director
5. Dr.W.M.Sivakumar : Director (Technical)
6. Dr. Manojkumar H. Pujar : Director
7. S. Shivamallu : Director
8. V.Venkatasiva Reddy : Director
9. M. Nagaraju : Director

## INVITEES PRESENT

Sriyuths:

1. T.H. Shakeel Ahmed : CGM (F&C), BESCOM
2. S.A.Satish Kumar : G.M.(M&C), BESCOM
3. V.Arunachalam : Asst.Director, CPRI
4. C.P.Jayaram : Addl. Director, CPRI

In Attendance:

R. Sridhara : Authorised Signatory, BESCOM.

At the outset, Managing Director, BESCOM welcomed the Chairman, Directors and other officers to the meeting.

Quorum being present, subjects were taken up for discussion and decision thereon.

## PART I - ROUTINE SUBJECTS

**Subject No.57/01: Leave of Absence.**

Leave of Absence was granted to the following Directors:

1. Sri Manoj Kumar Meena
2. Sri K.N.Ramesh: and
3. Sri P.K.Garg

  
Chairman  
BESCOM

CGM. CA

For 1/19



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ಎ.ಶ್ರೀ.ಪು. (2.ವ್ಯ.3)  
ಸುಂದರ ಎಸ್.ಪು. ಶ್ರೀಮತಿ  
02/10/13



## BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

**Subject No.57/02: Confirmation of Minutes of the 56<sup>th</sup> Meeting of Board of Directors of BESCOM held on 28<sup>th</sup> November 2012.**

As regard Subject No. 56/16, in the Resolution part, the penalty in sub column at column 5 in respect of AEE (Civil) and AO was modified to be read as "ii to iv (a)" instead of "ii to vi (a)".

With the above modification, minutes were confirmed.

**Subject No.57/03: Action Taken Report on the Minutes of the 56<sup>th</sup> Meeting of Board of Directors of BESCOM held on 28<sup>th</sup> November 2012.**

Noted.

**Subject No.57/04: Proceedings of the Sub-Committee Meetings of the Board of BESCOM - For kind noting.**

Proceedings of the following Sub-Committee Meetings of the Board were noted.

- 1) 65<sup>th</sup> meeting of Central Purchase Committee of BESCOM held on 26<sup>th</sup> November 2012.
- 2) Borrowings Sub-Committee Meeting of BESCOM held on 22<sup>nd</sup> December 2012.

**Subject No.57/05: Circular Resolutions passed by the Board - For kind noting.**

The following Resolutions passed by Circulation were taken note of:

Subject: Cost Auditor's Report in respect of BESCOM for the FY 2011-12 - Approval to:

1. Proforma & Annexure to Cost Audit Report for the year 2011-12.
2. Performance Appraisal Report for the year 2011-12.
3. Draft replies to Cost Audit Report 2011-12.

**RESOLVED THAT approval be and is hereby accorded to the following:**

  
Chairman  
BESCOM



## **BANGALORE ELECTRICITY SUPPLY COMPANY LTD.**

- 1. Proforma & annexure to Cost Audit Report for the year 2011-12.**
- 2. Performance Appraisal Report for the year 2011-12.**
- 3. Draft replies to Cost Audit Report 2011-12.**

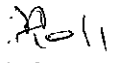
**FURTHER RESOLVED** that Managing Director, BESCOM and Director (Technical), BESCOM be and are hereby authorized to authenticate the same on behalf of the Board.

**FURTHER RESOLVED** that any two Directors of the Company who are holding digital signatures be and are hereby authorised to sign necessary E- Form and take needful action in the matter of filing the same before Ministry of Corporate Affairs, GoI, in accordance with Companies Act, 1956.

### **PART- II SPECIAL SUBJECTS**

**Subject No.57/06: Enquiry No: GM(M & C) /Enq 01/2012-13** called for providing metering system to DTCs by installing and commissioning of thread through type composite meter housing box consisting ETV meter of 1.0 class accuracy with AMR & DLMS compliance and with built in LT CT's as per specifications to all the distribution transformers of non-RAPDRP towns and rural areas under BANGALORE rural circle jurisdiction in BESCOM on total turnkey engineering, procurement and construction (EPC) basis for a contract period of 5 years.

**Subject No.57/07: Enquiry No: GM(M & C) /Enq 02/2012-13** called for providing metering system to DTCs by installing and commissioning of thread through type composite meter housing box consisting ETV meter of 1.0 class accuracy with AMR & DLMS compliance and with built in LT CT's as per specifications to all the distribution transformers of non-RAPDRP towns and

  
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*rural areas under Kolar circle jurisdiction in BESCOM on total turnkey engineering, procurement and construction (EPC) basis for a contract period of 5 years.*

**Subject No.57/08:** *Enquiry No: GM(M & C) /Enq 03/2012-13 called for providing metering system to DTCs by installing and commissioning of thread through type composite meter housing box consisting ETV meter of 1.0 class accuracy with AMR & DLMS compliance and with built in LT CT's as per specifications to all the distribution transformers of non-RAPDRP towns and rural areas under Davangere circle jurisdiction in BESCOM on total turnkey engineering, procurement and construction (EPC) basis for a contract period of 5 years.*

**Subject No.57/09:** *Enquiry No: GM(M & C) /Enq 04/2012-13 called for providing metering system to DTCs by installing and commissioning of thread through type composite meter housing box consisting ETV meter of 1.0 class accuracy with AMR & DLMS compliance and with built in LT CT's as per specifications to all the distribution transformers of non-RAPDRP towns and rural areas under Tumkur circle jurisdiction in BESCOM on total turnkey engineering, procurement and construction (EPC) basis for a contract period of 5 years.*

Following were submitted in this context:

1. Karnataka Electricity Regulatory Commission had earlier directed the ESCOMs to complete installation of the meters to DTC's by 31.12.2012. BESCOM has taken permission to provide meters to balance DTCs in Non -RAPDRP towns in a time bound manner before 30.9.2013.

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2. Hence, it is proposed to take up works of providing metering system to DTCs by installing and commissioning of thread through type composite meter housing box consisting of ETV meter of 1.0 class accuracy with AMR & DLMS compliant and with built-in LTCTs as per specifications to all the Distribution Transformers of non-RAPDRP towns and rural areas under BESCOM Jurisdiction on total turnkey engineering, procurement and construction (EPC) basis for a contract period of 5 years. The EPC contract includes supply, installation, commissioning, maintenance and value added service for the entire duration of contract period. The existing PVC lead wire provided to the DTCs shall be removed and inserted through thread through composite meter housing box and connected to LT network for recording of energy parameters.

Details of the proposals vis-à-vis Response, Responsiveness and lowest offers received were broadly summarized and submitted as below:

### (a) Participation of the bidders:

Sl. No	Subject No	Enquiry No.	Notified on	No. of Agencies participated	No. of Bidders QUALIFIED	Price Bids opened on
1	57/06	GM (M & C) /Enq 01/2012-13	9.7.2012	4	2	26-11-2012
2	57/07	GM (M & C) /Enq 02/2012-13	9.7.2012	3	2	26-11-2012
3	57/08	GM (M & C) /Enq 03/2012-13	9.7.2012	3	2	26-11-2012
4	57/09	GM (M & C) /Enq 04/2012-13	9.7.2012	4	2	26-11-2012

### (b) Lowest prices & their comparison with Amount put to Tender:

  
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Sl No	Subject No	Enquiry No.	Name of L1 qualified Bidder	Quoted All inclusive price of L1 Bidder in Rs.	Revised Amount put to Tender/ Estimate as per CPRI computation in Rs.	% Excess/ Below the Revised Amount Put to Tender/ Estimate as per CPRI computation.
1	57/06	GM (M & C) /Enq01 /2012-13	M/s Asian Fab Tec Ltd	Rs. 84,34,64,388=00	Rs. 75,36,01,900=00	(+)11.92
					Rs. 89,13,65,800=00	(-) 05.37
2	57/07	GM(M & C) /Enq02 /2012-13	M/s Genus Power Infrastructure Ltd	Rs. 65,94,99,009=27	Rs. 56,52,01,425=00	(+)16.68
					Rs. 66,85,24,350=00	(-)01.35
3	57/08	GM(M & C) /Enq03 /2012-13	M/s Genus Power Infrastructure Ltd	Rs. 88,15,79,212=00	Rs. 75,36,01,900=00	(+)16.98
					Rs. 89,13,65,800=00	(-)1.10
4	57/09	GM(M & C) /Enq04 /2012-13	M/s Asian fab tec Ltd	Rs. 105,43,30,485=00	Rs. 94,20,02,375=00	(+)11.92
					Rs. 111,42,07,250=00	(-)5.37

Following were noted in this context:

1. The scope of tender covers supply, installation and commissioning of CT ETV meters of 1.0 class accuracy with associated CT's, SMC meters box and other materials.
2. The purpose of the tender is to meter DTCs at Non -RAPDRP Towns for the purpose of Energy audit and thereupon to bring down AT&C loss levels.
3. Tender is on Total Turnkey involving Engineering, Procurement and Construction which includes Supply, Installation, Commissioning, Maintenance and Value Added Services during contract period of 5 years.

  
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4. Broadly, the scope of work involves the following:
  - a) The bidder has to provide the metering systems to all distribution transformers along with RAMR facility.
  - b) Set up data management system in all O & M subdivisions for conducting necessary Energy analysis and energy auditing.
  - c) Establish a communication network between DTC centre and data management centre using GPRS/GSM network.
  - d) Bidders shall ensure that all meter data available at data management centre on time to conduct Energy Auditing.
  - e) On receipt of the Meter data of all the transformers, the respective Assistant Executive Engineer of the O & M Subdivision will take further action to evaluate the DTC Meter data against the consumers meter data in order to take necessary action to reduce the AT & C losses to the desired level of BESCOM.
5. Prices are firm throughout the period of the contract.
6. Payment towards the tender is broken into 3 parts namely:
  - Part -A Involving supply
  - Part -B Involving Labour
  - Part- C Involving Maintenance.
7. In order to arrive at a realistic database, Estimated Cost of the subject tender has been got recast from M/s. CPRI, Bangalore, a Government of India Agency.
8. BESCOM has also parallelly revised the Estimated Cost taking into account the probable cost likely to be incurred by the Bidders and arrived at on the basis of tender floated by MESCOM.
9. Work is scheduled for completion within 6 months from the date of LoA.
10. Necessary provision in the subsequent budgets for the subject works is being ensured.

  
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Board went through the proposal and annexures. Since the subject works are composite in nature involving varied scope of works, the Estimated Cost could not be computed by BESCOM by applying either the Market Rate or SR. Hence for facilitating a realistic comparison with the quotes, the Estimated Cost has been got computed by CPRI.

Board debated the subject. It was noted that KERC, in its Review Meeting had noted that, ESCOMs having invested in DTC Metering, are required to cover all DTCs for Metering and Energy Audit and initiate effective measures so as to reduce losses.

At the outset, it was noted that similar type of work has been carried out both in MESCOM and GESCOM. While the present tender is substantially comparable to MESCOM Tender, GESCOM, has gone in for conventional meters instead of thread through meters. The proposal covers non RAPDRP areas involving a total of 80,000 DTCs as against 83,925 DTCs to be metered. The Utility has floated enquiries separately for the 4 Circles namely Bangalore (Rural), Kolar, Davangere, and Tumkur.

General Manager (M&C), BESCOM who was invited to the meeting submitted the following:

- a) Under RAPDRP there are around 44,900 DTCs out of which around 37,000 DTCs have been metered.
- b) Energy Audit is carried out in respect of 13% of the metered DTCs.
- c) The present proposal addresses DTC metering in Rural areas where approximately 1,20,000 DTCs have to be metered.
- d) In view of bifurcation of Agricultural and Non-agricultural feeders, DTCs of NJY (Non-agricultural consumers) feeders have not been reckoned for metering.
- e) Approximately 40 to 45% of the Energy input is fed into the rural feeders.
- f) Based on the lowest quotes against the enquiries, the total financial implication will be around Rs.320 Crores.
- g) Integration of the Software to be provided by the Bidder in the present scope of work with RAPDRP Software developed by M/s Infosys is a primary condition built in the tender.

  
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h) Since all the meters are DLMS complaint and random samples of Meters are tested and approved by CPRI before installation, Data acquisition and integration of Software will not pose any problem.

The substantial variation between the Original Estimate prepared by BESCOM and the Revised Estimate compiled by CPRI was sought to be clarified. The Officers of CPRI, who were invited to the meeting, submitted the following reasons for the substantial variation in the two estimates:

- Supply portion of the original Estimate of BESCOM does not include the software and the Centralized Server. Hence there is a wide variation.
- Labour portion had excluded cable and associated equipments, correct manpower required etc.
- As regards Maintenance, Service provider has to maintain the software during the contract period of 5 years.

Having gone through details, Board was of the opinion that integration of the Software and its compatibility to the system in urban towns has to be mandatorily ensured. The proposal was not forthcoming on the actual Energy input likely to be put into the newly covered feeders. Based on the available data, BESCOM has to prioritize metering of those DTCs where loss levels were not within the permissible limits.

On a perusal of the data, the offers obtained against the enquiries in the order of ascendancy were noted as below:

1. Subject No.57/06 & Enquiry No: GM(M & C) /Enq 01/2012-13

### BANGALORE RURAL CIRCLE

SI No	Particulars	Qty.	QUOTED BY M/s. Asian Fab Tec Limited		QUOTED BY M/s. Genus Power Infrastructure LTD	
			UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)	UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)
			(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)

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# BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

<b>PART-A (SUPPLY)</b>						
1	LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer.	20000	19134.925	382698500.00	19472	389440000.00
<b>PART-B(LABOUR)</b>						
2	Fixing, installing and commissioning of LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer along with wire, accessories etc	20000	18319.174	366383488.00	19433.28	388765612.00
<b>PART-C (MAINTAINANCE)</b>			Charges per month per DTC for downloading data Rs.	Charges for 60 Months for downloading data from 20000 DTC Rs.	Charges per month per DTC for downloading data Rs.	Charges for 60 Months for downloading data from 20000 DTC Rs.
3a	Charges for downloading and analysis of data from LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer to data management centre (5 years)	20000	78.652	94382400.00	89.89	107868000.00
TOTAL Rs				843464388=00		886073612=00
<b>RANKING</b>				L1		L2

2. Subject No.57/07 & Enquiry No: GM(M & C) / Enq 02/2012-13  
**KOLAR RURAL CIRCLE**

Sl No	Particulars	Qty.	QUOTED BY M/s. Genus Power Infrastructure LTD		QUOTED BY M/s. Asian Fab Tec Limited	
			UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)	UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)
			(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)

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## BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

<b>PART-A (SUPPLY)</b>						
<b>1</b>	LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer.	<b>15000</b>	<b>19472</b>	292080009.27	<b>19134.93</b>	287023875.00
<b>PART-B(LABOUR)</b>						
<b>2 a</b>	Fixing, installing and commissioning of LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer along with wire, accessories etc	<b>15000</b>	<b>19101.2</b>	286518000.00	<b>21236.04</b>	318540600.00
<b>PART-C (MAINTAINANCE)</b>			<b>Charges per month per DTC for down loading data Rs.</b>	<b>Charges for 60 Months for downloading data from 15000 DTC Rs.</b>	<b>Charges per month per DTC for down loading data Rs.</b>	<b>Charges for 60 Months for downloading data from 15000 DTC Rs.</b>
<b>3a</b>	Charges for downloading and analysis of data from LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer to data management centre (5 years)	<b>15000</b>	<b>89.890</b>	<b>80901000.00</b>	<b>95.51</b>	<b>85955400.00</b>
<b>TOTAL Rs</b>				<b>659,499,009=27</b>		<b>691,519,875=00</b>
<b>RANKING</b>				<b>L1</b>		<b>L2</b>

**3. Subject No.57/08 & Enquiry No: GM(M & C) /Enq 03/2012-13**

### DAVANGERE RURAL CIRCLE

Sl No	Particulars	Qty.	QUOTED BY M/s. Genus Power Infrastructure LTD		QUOTED BY M/s. Asian Fab Tec Limited	
			UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)	UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)
			(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)

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# BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

<b>PART-A (SUPPLY)</b>						
1	LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer.	20000	19472.000	389440000.00	19134.93	382698600.00
<b>PART-B(LABOUR)</b>						
2	Fixing, installing and commissioning of LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer along with wire, accessories etc	20000	19213.560	384271212.00	21236.04	424720800.00
<b>PART-C (MAINTAINANCE)</b>			Charges per month per DTC for down loading data Rs.	Charges for 60 Months for downloading data from 20000 DTC Rs.	Charges per month per DTC for down loading data Rs.	Charges for 60 Months for downloading data from 20000 DTC Rs.
3a	Charges for downloading and analysis of data from LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer to data management centre (5 years)	20000	89.890	107868000.00	95.51	114612000.00
TOTAL Rs				881579212=00		922026500=00
<b>RANKING</b>				L1		L2

4. Subject No.57/09 & Enquiry No: GM(M & C) /Enq 04/2012-13

### TUMKUR CIRCLE

Sl No	Particulars	Qty.	QUOTED BY M/s. Asian Fab Tec Limited		QUOTED BY M/s. Genus Power Infrastructure LTD	
			UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)	UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)
			(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)

Chairman  
BESCOM



# BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

<b>PART-A (SUPPLY)</b>						
1	LT Three Phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer.	25000	19134.93	478373250.00	19472.00	486800000.00
<b>PART-B(LABOUR)</b>						
2 a	Fixing, installing and commissioning of LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer along with wire, accessories etc	25000	18319.17	457979250.00	19213.56	480339015.00
<b>PART-C (MAINTAINANCE)</b>			Charges per month per DTC for down loading data Rs.	Charges for 60 Months for downloading data from 25000 DTC Rs.	Charges per month per DTC for down loading data Rs.	Charges for 60 Months for downloading data from 25000 DTC Rs.
3a	Charges for downloading and analysis of data from LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer to data management centre (5 years)	25000	78.65	117978000.00	89.89	134835000.00
TOTAL Rs				1054330485=00		1101974015=00
<b>RANKING</b>				L1		L2

A comparison of the L1 rates against the different enquiries with the revised estimates prepared by BESCOM and as compiled and provided by CPRI was noted below:

Sl No	Subject No	Enquiry No.	Name of L1 qualified Bidder	Quoted All inclusive price of L1 Bidder in Rs.	Revised Amount put to Tender/ Estimate as per CPRI computation in Rs.	% Excess/ Below the Revised Amount Put to Tender/ Estimate as per CPRI computation.

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## BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

1	57/06	GM(M & C) /Enq01 /2012-13	M/s Asian Fab Tec Ltd	Rs. 84,34,64,388=00	Rs. 75,36,01,900=00	(+)11.92
					Rs. 89,13,65,800=00	(-)5.37
2	57/07	GM(M & C) /Enq02 /2012-13	M/s Genus Power Infrastructure Ltd	Rs. 65,94,99,009=27	Rs. 56,52,01,425=00	(+)16.68
					Rs. 66,85,24,350=00	(-)1.35
3	57/08	GM(M & C) /Enq03 /2012-13	M/s Genus Power Infrastructure Ltd	Rs. 88,15,79,212=00	Rs. 75,36,01,900=00	(+)16.98
					Rs. 89,13,65,800=00	(-)1.10
4	57/09	GM(M & C) /Enq04 /2012-13	M/s Asian fab tec Ltd	Rs. 105,43,30,485=00	Rs. 94,20,02,375=00	(+)11.92
					Rs. 111,42,07,250=00	(-)5.37

Scope of the present tender involves supply, Labour and Maintenance. Tender stipulates completion of the supply and Labour portion within six months from the date of issue of Letter of Award. Maintenance of the Software is spread over a period of 5 years. BESCOM has not yet made an analysis of the Energy Audit data available. Further it has not prioritized the meter locations of DTCs having higher loss levels. From the commercial point of view, MD BESCOM submitted that immediate emphasis be given to metering of DTCs both in Davangere Circle and Tumkur Circle. Budget provided for the subject works is of the order of Rs.143 Crores.

DTC Metering facilitates Energy Audit. Analysis of related data provides scope for addressing core issues like Theft, Technical Losses etc. Hence the proposal is significant from the revenue point of view. On a comparison of the quoted rates with CPRI Estimated Cost, revised Computation by BESCOM and MESCOM approved rates, it is seen that the same are reasonable.

Considering the same, Board decided to consider the proposal only in respect of Davangere Circle and Tumkur Circle subject to the following conditions:

  
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- a) BESCOM shall ensure that adequate sampling and testing of meters is done by M/s CPRI and certified for its DLMS compliance and compatibility to the system.
- b) No payment shall be released until it is proved to the satisfaction of BESCOM that the Software provided by the Bidder can get integrated completely with the Software under RAPDRP scheme.
- c) The System Provider under RAPDRP namely viz., M/s. Infosys shall certify that the DTC Meters installed under the subject enquiries are DLMS compliant and Software provided by the Bidder can be integrated with their Software.

Having decided as above, Board desired a report on the following at the next meeting.

1. Analysis of the Energy Audit data in respect of 13% DTC Meters considering their loss levels under various ranges from 0- 5%, 5-10% and so on.
2. Action taken by BESCOM on those DTCs where the loss levels were substantially high viz., beyond 10%.
3. Action initiated with regard to prioritization of DTCs for metering based on the Energy Audit Data.
4. Based on the Data available any action taken to address theft related issues, replacement of meters etc.

Following Resolutions were passed in this context:

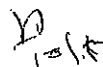
**RESOLVED THAT approval be and is hereby accorded to award of the work of providing metering system to DTCs by installing and commissioning of thread through type composite meter housing box consisting ETV meter of 1.0 class accuracy with AMR & DLMS compliance and with built-in LTCTs as per specifications to Distribution Transformers of non-RAPDRP towns and rural areas under Davangere & Tumkur Rural Circle in BESCOM jurisdiction on Total Turnkey Engineering, procurement and construction (EPC) basis for a contract period of 5 years to the L1 quoted Bidders against various enquiries as detailed below subject to conditions brought out therein:**

  
Chairman  
BESCOM



# BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

Subject No.57/08 & Enquiry No: GM(M & C) /Enq 03/2012-13 <b>DAVANGERE RURAL CIRCLE</b>				
SI No	Particulars	Qty.	L1 Bidder M/s. Genus Power Infrastructure LTD	
			UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)
			(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)
<b>PART-A (SUPPLY)</b>				
1	LT Three Phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer.	20,000	19,472.000	38,94,40,000.00
<b>PART-B(LABOUR)</b>				
2	Fixing, installing and commissioning of LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer along with wire, accessories etc.	20,000	19,213.560	38,42,71,212.00
<b>PART-C (MAINTAINANCE)</b>			Charges per month per DTC for down loading data Rs.	Charges for 60 Months for downloading data from 20000 DTC Rs.
3a	Charges for downloading and analysis of data from LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer to data management centre (5 years)	20,000	89.890	10,78,68,000.00
<b>TOTAL Rs</b>		<b>Rs.88,15,79,212=00 (Rs. Eighty eight crore fifteen lakh seventy nine thousand two hundred and twelve only)</b>		

  
 Chairman  
 BESCOM





# BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

Subject No.57/09 & Enquiry No: GM(M & C) /Enq 04/2012-13  
**TUMKUR CIRCLE**

SI No	Particulars	Qty.	L1 Bidder M/s. Asian Fab Tec Limited	
			UNIT QUOTED RATE (in Rs.)	AMOUNT (in Rs.)
			(Inclusive of all taxes and duties, work contract tax, freight and Insurance)	(Inclusive of all taxes and duties, work contract tax, freight and Insurance)
<b>PART-A (SUPPLY)</b>				
1	LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer.	25,000	19,134.93	47,83,73,250.00
<b>PART-B(LABOUR)</b>				
2 a	Fixing, installing and commissioning of LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer along with wire, accessories etc	25,000	18,319.17	45,79,79,250.00
<b>PART-C (MAINTAINANCE)</b>				
3a	Charges for downloading and analysis of data from LT Three phase Four Wire Thread through type composite Meter Housing Box consisting of ETV Meters with AMR compliance and LTCT with built in GSM / GPRS modem (as per technical specification) up to 100kVA Distribution Transformer to data management centre (5 years)	25,000	78.65	11,79,78,000.00
<b>TOTAL Rs</b>			<b>Rs.105,43,30,485=00</b> <b>(Rs. One hundred and five crore forty three lakh thirty thousand four hundred and eighty five only)</b>	

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### CONDITIONS:

a) *Payment towards the work shall be released as below:*

#### PART A: (SUPPLY)-

- i. **50% (FIFTY) of the amount quoted in PART-A (SUPPLY) of price bid will be paid after installation, commissioning and down loading of Data of DTC Meters to the Desk Top at the respective sub-Divisions based on the number of Composite Meter Housing Boxes installed and commissioned. Payment shall be made only after M/s Infosys, system provider under RAPDRP certifies that the DTC Meters and the Software provided by the bidder can successfully get integrated to their Software. Further payment shall be done only after the Data is successfully read from the commissioned DTC Meters.**
- ii. **Balance 50% of the amount quoted in PART-A (SUPPLY) of price bid shall be paid in 60 equal monthly installments.**

#### PART (B): (LABOUR)-

- i. **100% of the amount quoted in PART-B (LABOUR) of price bid will be made after installation, commissioning and downloading Data of DTC Meters to the Desk Top at the respective sub-Divisions based on the number of composite meter Housing Boxes installed and commissioned. Payment shall be made subject to ensuring continued satisfactory performance of the equipments and Software supplied. Payment shall be made only after the data is successfully read from the commissioned DTC meters.**

#### PART-C (Maintenance)-

- i. **Ten percent (10%) of the amount quoted in PART-C (Maintenance ) of price bid shall be paid towards meter data management software deployment charges after the software is installed and commissioned.**

  
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- ii. **The balance Ninety percent (90%) will be paid in 60 equal monthly installments (5 Years) as charges for downloading and analysis of data from LT three phase four wire thread through type composite meter housing box consisting of ETV meters with AMR compliance and LT CT with built in GSM/GPRS modem (as per Technical specification) up to 100 kVA Distribution Transformer to data management center. The meter data (Voltage, Current, PF and Frequency) shall be processed and analyzed by the contractor to arrive at load on each phase unbalancing by the contractor to arrive at load on each phase, unbalancing and PF (lag and lead). The same shall be certified by the engineer in charge. The data shall be used by the sub-division for energy audit purpose.**
- b) **To include in the scope of work all components and services as clarified by M/s. CPRI while issuing LoI/DWA to the Successful Bidder.**
- c) **BESCOM shall ensure that adequate sampling and testing of meters is done by M/s CPRI and certified for its DLMS compliance and compatibility to the system.**
- d) **No payment shall be released until it is proved to the satisfaction of BESCOM that the Software provided by the Bidder can get integrated completely with the Software under RAPDRP scheme.**
- e) **The System Provider under RAPDRP namely viz., M/s. Infosys shall certify that the DTC Meters installed under the subject enquiries are DLMS compliant and Software provided by the Bidder can be integrated with their Software.**

**FURTHER RESOLVED that a detailed report on the following shall be placed before the Board at its next meeting for its consideration:**

- 1. Analysis of the Energy Audit data in respect of 13% DTC Meters considering their loss levels under various ranges from 0- 5%, 5-10% and so on.**
- 2. Action taken by BESCOM on those DTCs where the loss levels were substantially high viz., beyond 10%.**

  
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3. **Action initiated with regard to prioritization of DTCs for metering based on the Energy Audit Data.**
4. **Based on the Data available any action taken to address theft related issues, replacement of meters etc.**

As regards the other two enquiries relating to Kolar and Bangalore Rural Circle, it was decided to cancel the same and take up subsequently depending on necessity.

**Subject No.57/10: Enquiry No: GM(M & C) /Enq 06/2012-13 for Sale of LT three phase whole current, 5-30Amps Static energy meters in retail outlets of BESCOM for a period of Two years.**

BESCOM has established a system of approving Retail Outlets of approved metered manufacturers for sale of Single Phase and 3 Phase Static Energy Meters. Tenders would be floated as per KTPP Act through the E-procurement mode and the lowest quoted Responsive meter manufacturer is authorised to open Retail Outlet and sell its meters for a period of two years at the approved rate to the consumers directly subject to certain conditions. The present proposal is for approving a Retail Outlet for sale of LT 3 Phase whole current 5-30 Amps static Energy Meters.

Following were submitted in this text:

- a) Tender was floated through the electronic mode and notified on 09/07/2012.
- b) 5 Agencies have purchased and participated in the bids.
- c) 4 Agencies have been considered as Responsive.
- d) Price bids of the Responsive agencies were opened on 27<sup>th</sup> of November 2012.
- e) Tender has been processed and evaluated in accordance with the provisions of KTPP Act.

Details were perused. The Ascending Order statement of the various quotes against enquiry was noted as below:

  
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Name of the bidders	Unit break up prices (in Rs.)								Unit FORD price inclusive of all taxes & duties in Rs.
	Unit Ex-Works price	Excise Duty	CESS on ED	CST	VAT	Freight & Insurance	Entry Tax	Any other applicable taxes	
M/s Landis and Gyr Ltd	1900	228.00	6.84	-	309.55	-	-	-	2444.39
M/s Larsen & Toubro Ltd	2142.00	257.00	7.71	NA	348.98	Included	-	-	2755.73
M/s Genus Power Infrastructures Limited	2597.38	Exempted	Exempted	NA	376.62	25	-	-	2999.00
M/s Secure Meters Limited	2831.94	-	-	-	414.74	25	-	-	3271.68*

\*- M/s Secure Meters Limited has quoted both CST & VAT in the price bid, both taxes are not applicable, hence when clarification sought with M/s Secure Meters Limited they have replied via email dtd: 27.12.2012 that the subject requirement is inclusive of full VAT/full CST and F & I charges.

M/s Landis and Gyr Ltd have quoted the lowest all inclusive rate of **Rs.2,444=39/-** per meter which is **40% below** the previous approved rate of **Rs.4075/-** per meter, approved during October 2010.

Reckoning the reasonableness of the offer and the reputation of the L1 Bidder, proposal was approved and the following resolution was passed

**RESOLVED THAT the following L1 rate quoted by M/s Landis and Gyr Ltd., for sale of LT 3 Phase whole current 5-30 Amps Static Energy Meters in retail outlets of BESCOM against Enquiry No. GM (M & C) / Enq. 06/2012-13 for a period of TWO YEARS be and is hereby approved:**

  
 Chairman  
 BESCOM



# BANGALORE ELECTRICITY SUPPLY COMPANY LTD.

Name of the L1 bidder	Unit break up prices (in Rs.)							Unit FORD price inclusive of all taxes & duties in Rs.	
	Unit Ex-Works price	Excise Duty	CESS on ED	CST	VAT	Freight & Insurance	Entry Tax		Any other applicable taxes
M/s Landis and Gyr Ltd	1800	228.00	6.84	-	309.55	-	-	-	Rs.2,444=39 (Two thousand four hundred and forty four and paise thirty nine only)

**Subject No.57/11: Enquiry No: BCP-723/2012-13 for Procurement of Rabbit ACSR Conductor.**

- **LOT-1: supply of Rabbit Conductor required for NJY works: 6875 Kms.**
- **LOT-2: supply of Rabbit Conductor required for BESCOM other works: 13125 Kms.**

Kind attention of the Board was invited to the discussions and decisions on the subject matter vide subject No 56/23 at the last meeting held on 28<sup>th</sup> of November 2012. It was submitted that as per directions of the Board, the respective Agencies were offered in all inclusive rate of Rs.33,166=43/- per Km.

In response to the same, the respective Agencies have represented for considering offering a workable price of cost basis by bringing out their cost sheet as below:

Cost of Aluminium	145 Kgs x Rs.157.21	-Rs.22,795=45
Cost of Steel	69 Kgs x Rs. 81.25	-Rs. 5,606=25
Cost of Drum		-Rs. 550=00
<b>Sub-Total</b>		<b>-Rs. 28,951=70</b>
Excise Duty at 12.36%		-Rs. 3,578=43
KVAT @ 5.5%		-Rs. 1,789=16
Freight		-Rs. 270=00
<b>Total Raw Material Cost</b>		<b>-Rs.34,589=29</b>

  
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Proposal was discussed. MD submitted to the Board that conductors are urgently required for NJY and System Improvement works. To tide over situation, BESCOM has borrowed 1500 Km of conductors from CESC on returnable basis.

Considering the same and after detailed deliberations, it was decided to approve all inclusive rate of **Rs.35,627=00/-** (Rs. Thirty Five Thousand six hundred and twenty seven only) per Km which works out to **3% above** Total Raw Material Cost.

Following Resolutions were passed in this context:

**RESOLVED THAT approval be and is hereby accorded to procure Rabbit ACSR Conductors against enquiry No. BCP 723/2012-13 from the respective Agencies at the approved rates as detailed below:**

LOT	PARTICULARS	Name of L1 Bidder	QUANTITY In Kms.	Approved All inclusive rate per KM
LOT-1	Procurement of ACSR Rabbit Conductor required for NJY Phase-II Works.	M/s Aluminium Cables and Conductors Pvt. Ltd., Bangalore.	6875	Rs.35,627=00/- (Rs. Thirty Five Thousand six hundred and twenty seven only)
LOT-2	Procurement of ACSR Rabbit Conductor required for other BESCOM Works	M/s Sharavathy Conductors Pvt. Ltd., Bangalore.	13125	Rs.35,627=00/- (Rs. Thirty Five Thousand six hundred and twenty seven only)

**Subject No.57/12: Proposal regarding the formation of PQR Committee for standardisation of Tender Documents and Pre-Qualifying Requirements to be incorporated in the tenders floated by BESCOM.**

Details were perused. The subject matter was relevant for all ESCOMs. Standardization of **PQRs** across all ESCOMs would help in bringing about uniformity. Towards this end, there is a

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need to involve MDs of all ESCOMs in finalising the Tender Documents and framing of **PQRs** to be included in the Tender Documents.

Having observed thus, Board constituted a Committee under the Chairmanship of MD, KPTCL with MDs of ESCOMs as Members. MD, BESCOM was authorised to address GoK for issue of suitable orders in this regard for constitution of following Committee to standardize Tender Documents by deciding on appropriate conditions and prequalifying requirements to be included in the same.

Following resolution was passed in this context:

**RESOLVED THAT MD, BESCOM be and is hereby authorised to address GoK for issue of necessary orders constituting the following Committee to evolve standardized Tender Documents by deciding on appropriate conditions and Pre-Qualifying Requirements:**

- |                              |                             |
|------------------------------|-----------------------------|
| 1. MD KPTCL                  | : Chairman of the Committee |
| 2. MD BESCOM                 | : Member                    |
| 3. MD MESCOM                 | : Member                    |
| 4. MD GESCOM                 | : Member                    |
| 5. MD HESCOM                 | : Member                    |
| 6. MD CESCO                  | : Member                    |
| Executive Engr. Energy Dept. | : Convener                  |

**Subject No.57/13: Extension of Contract order No:1161/2009-10 dated 31.03.2010 on M/s Zygox Infotech Pvt Ltd, on Total Revenue Management (TRM) services in BRAZ and CTAZ- Ratification Reg.**

MD explained details. The proposal relates to Total Revenue Management Services (TRM) provided by M/s Zygox Infotech Pvt Ltd., in BRAZ & CTAZ areas since April 2010. The said contract which was initially for a period of One year is being extended from time to time keeping in view the schedule fixed to M/s Infosys, the service provider under RAPDRP, to rollout Metering, Billing and Collection Modules. While M/s Infosys would address

  
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RAPDRP under BRAZ and Chitradurga zone, a new service provider has been awarded the work of web enabled TRM for the non-RAPDRP areas. On a careful consideration of all the related issues, it is felt that the new Service Providers would put in place their modules latest by 31<sup>st</sup> March 2013. Considering the same, action has been taken to extend the contract period of award on M/s Zygox Infotech Pvt Ltd., up to 31<sup>st</sup> March 2013 on the existing terms and conditions.

Taking note of the above, **Board Ratified** the action taken and passed the following resolution:

**RESOLVED THAT** action taken in extending the contract period of the existing contract order No:116/2009-10 dated 31.03.2010 placed on M/s Zygox Infotech Pvt Ltd., towards Total Revenue Management from 01.10.2012 to 31.03.2013 or date of implementation of RAPDRP Part-A project in the RAPDRP Area and date of commencement of fresh contract order in the non-RAPDRP areas of Bangalore Rural area and Chitradurga Zones **WHICHEVER IS EARLIER under the existing terms and conditions be & is hereby RATIFIED.**

**Subject No.57/14: Amendment to Manual of Delegation Authority.**

*Subject was requested to be withdrawn.*

**Subject No.57/15: Up-gradation of General Manager (Ele)/(F&C) posts or Creation of Chief General Manager(Ele)/(F&C) posts.**

After detailed discussion and considering the ramifications involved, the proposal was **REJECTED.**

**Subject No.57/16: Extension of Project Management Consultants contract for Bangalore Distribution Up-gradation Project.**

  
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Kind attention on the Board was invited to the discussion on the subject matter before the last Board Meeting held on 28<sup>th</sup> November 2012. In the said meeting, Board sought for a report from the Project Consultants on the following:

- a) Probable pricing of Spectrum and its financial impact on the project.
- b) In view of (a), economic viability of the project.

It is seen from the proposal that the Project Management Consultants are collecting the details and will be submitting their report shortly.

***Considering the same, Board decided to extend the PMC contract by another 3 months i.e. till the end of March 2013 with a direction to revert to the Board with a detailed proposal based on the report of the consultant.***

Meeting concluded with vote of thanks to the Chair.

  
20/1/13  
**CHAIRMAN  
BESCOM**