



Millennium Development Authority (MiDA)

PRESENTED BY PROCUREMENT AGENT MANAGER

DATE: 22ND MAY 2018

INVITATION FOR BIDS

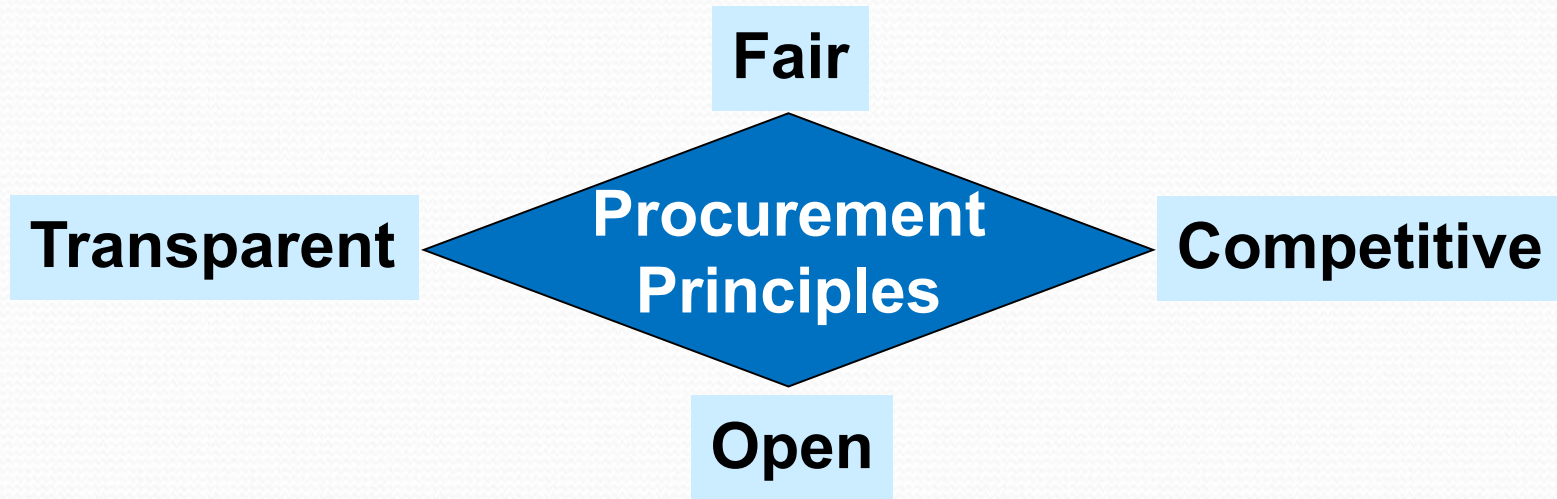
MCC STANDARD BIDDING DOCUMENT ADAPTED FROM IDA/WORLD BANK STANDARD DOCUMENTS BUT ADAPTED TO SUIT MCC

REMEMBER THIS IS UNTIED AID AND COMPETITION IS OPEN WORLDWIDE

IMPORTANT FOR INTERESTED BIDDERS TO READ THE IFB CAREFULLY AS THIS NEW MCC IT SERVICES (NCS) SBD HAS ONLY BEEN EFFECTIVE FROM AUGUST 2016

IF IN DOUBT ON ANY ISSUE(S) ALWAYS ASK FOR CLARIFICATION

MiDA PROCUREMENT PRINCIPLES



- Procurement Agent to ensure integrity of the process
- Open competition wherever possible
- No geographic or national preferences
- Government-Owned Enterprises (ITB Clause 5.4)
- Independent and suitably qualified Evaluation Panels
- MCC and MiDA Board of Directors approvals over certain thresholds
- Price Reasonableness Analysis
- Contractor Past Performance Reports
- Reference Checks
- Bid Challenge System (www.mida.gov.gh) and Debriefings

PART 1 - SECTION I

INSTRUCTIONS TO BIDDERS

READ CAREFULLY, AND IN PARTICULAR NOTE

ITB CLAUSE 13 DOCUMENTS COMPRISING THE BID:

[Revised 2018 Scope\5130400 -Meter Mgt System IFB rev3 scope \(PA 250418\) issued.docx/Bid Table of Contents and Checklist](#)

- ❖ All Bidding Forms in Section IV
- ❖ All Price Schedules in Section IV
- ❖ Bid Security – please refer to the Bid Data Sheet
- ❖ Written authorization of signatory to commit the Bidder
- ❖ Attachment 1 : Bidders Eligibility
- ❖ Attachment 2 : Bidders Qualifications
- ❖ Attachment 3 : Eligibility of Goods and Services
- ❖ Attachment 4 : Conformity of the Information System to the IFB
- ❖ Attachment 5 : Proposed Subcontractors
- ❖ Attachment 6 : Intellectual Property (Software & Material List)
- ❖ Joint Venture/Association Agreement(s)

PART 1 - SECTION I

INSTRUCTIONS TO BIDDERS

READ CAREFULLY, AND IN PARTICULAR NOTE

CLAUSE 17 : BID SECURITY

- ❖ Shall be a demand guarantee and either an unconditional bank guarantee or an irrevocable letter of credit
- ❖ If the financial institution is from outside of Ghana the Bid Security must be confirmed by a correspondent financial institution in Ghana, satisfactory to the Purchaser (MiDA), to make the Bid Security enforceable
- ❖ Shall have a value of forty thousand United States Dollars (US\$ 40,000)
- ❖ Shall be valid until **1st December, 2018** – **120** days after Bid Submission

PART 1 - SECTION I

INSTRUCTIONS TO BIDDERS READ CAREFULLY, AND IN PARTICULAR NOTE

ITB CLAUSE 20

The Inner and Outer Envelopes shall:

- ❖ Bear the full name and address of the Bidder
- ❖ Be addressed to MiDA as shown in the Bid Data Sheet (ITB 20.2(b))
- ❖ Be clearly marked with the name and reference for the assignment – also see Bid Data Sheet ITB 1.2;
- ❖ Bear a warning not to open before the time and date for Bid Opening specified in the Bid Data Sheet (ITB 24.1).

PART 1 - SECTIONS II AND III

Section 2 – The Bid Data Sheet (BDS) supersedes the related clauses from the Instructions to Bidders. Please ensure that the BDS is read carefully.

Please note ITB 21.1 that Bids must be submitted no later than **15:00 hours Ghana time on 6th July, 2018.**

Section 3 – The Bid Review, Evaluation Criteria and Bidder Qualification Requirements contains all the criteria that the Purchaser shall use to review Bids, post qualify Bidders and select the winning Bid.

SECTION III - THE BID REVIEW, EVALUATION CRITERIA AND BIDDER QUALIFICATION REQUIREMENTS

- ❖ 1. Administrative Review and Responsiveness determination
- ❖ 2. Price Review and Price Reasonableness Determination
- ❖ 3. Qualification Review and References and Past Performance Review
- ❖ 4. Qualifications of Bidder
 - 4.1 Eligibility
 - 4.2 Historical contract Non-Performance
 - 4.3 Financial Situation
 - 4.4 Experience

SECTION IV – BIDDING FORMS

Section IV starts with Notes to Bidders on Working with the Bidding Forms – please follow the instructions carefully.

The forms include:

- ❖ 1. Bid Submission form
- ❖ 2. Price Schedule forms
- ❖ 3. Bidder Qualifications forms
- ❖ 4. Technical Qualification forms

You must respond to all of the forms provided.

SECTIONS V, VI AND VII

SECTION V – GENERAL CONDITIONS OF CONTRACT (These cannot be changed)

SECTION VI CONTAINS

- PARTICULAR CONDITIONS OF CONTRACT (PCC)
- ANNEX A – MCC ADDITIONAL PROVISIONS (These cannot be changed)
- CONTRACT AGREEMENT AND APPENDICES 1-7, FORMS OF GUARANTEES, CERTIFICATES AND FORMS

SECTION VII - CONTAINS THE PURCHASER'S REQUIREMENTS

CLARIFICATION QUESTIONS AND RESPONSES

CLARIFICATION QUESTIONS MUST BE SENT **BY E-MAIL** NO LATER THAN CLOSE OF BUSINESS ON **29th MAY, 2018** TO:

paghana@charleskendall.com

and

procurement@mida.gov.gh

YOU MUST USE THESE ADDRESSES TO SOLICIT A WRITTEN RESPONSE TO YOUR QUESTIONS INCLUDING THOSE RAISED AT THIS MEETING.

RESPONSES TO ALL QUESTIONS WILL BE ISSUED ALONG WITH THE MINUTES OF THE PRE-PROPOSAL MEETING, AND ANY ADDENDUM TO THE IFB, NO LATER THAN **8th JUNE, 2018**.

SUBMISSIONS

MiDA PROCUREMENT

4TH FLOOR HERITAGE TOWER

INSIDE THE TENDER BOX

SUBMISSION FORM ON TENDER BOX TO BE COMPLETED.

SUBMISSIONS DUE BY **15:00** HOURS GHANA TIME ON **6th JULY, 2018**. A PUBLIC OPENING FOLLOWS IMMEDIATELY AFTER.

LATE SUBMISSIONS WILL NOT BE ACCEPTED.

COMMON CHALLENGES

Consultancy Services

- ❖ Clarification questions not asked by due date and time
- ❖ Bids submitted late
- ❖ Courier packages not clearly marked
- ❖ Bids not signed
- ❖ Written authorization of signatory to commit the Bidder not provided
- ❖ Bid Envelopes not correctly marked
- ❖ JV or Association documents not provided
- ❖ Government-Owned Entities form not completed and/or signed
- ❖ Bid Security in the wrong format, value and/or validity and /or not supported by correspondent financial institution where required
- ❖ Bid forms not completed correctly and/or submitted
- ❖ Purchaser's requirements & Implementation Schedule not responded to in full
- ❖ References not provided for Bidder and/or Key Personnel
- ❖ Incorrect and/or no email addresses provided for References

SPECIFIC CHALLENGES

IT Services

- ❖ Assumed SOW based on experiences rather than the specific Purchaser's Requirements in Section VII
- ❖ Lack of appreciation of nature of Supply & Installation requiring fully functioning Information System (IS) (i.e. to include customization (where applicable), integration, commissioning, training, technical support, maintenance, repair, and other services necessary for proper operation); Ref: BDS ITB 1.1 (u)
- ❖ IFB mistaken for Supply of IS only (i.e. just the physical delivery of technology)
- ❖ Linkage of IS to overall Smart Metering vision not appreciated (now & the future); e.g. CIS, DCCN, GIS etc.
- ❖ Prices not provided in the format of Price Schedule Forms which has been aligned with the Payment Schedule
- ❖ Prices not quoted CIP (note named places??), and not excluding all Taxes & contributions – BDS ITB 14.4 (a), 14.5 & 14.8
- ❖ Overlooking 5- Yrs. Recurrent Costs in Price Schedule consist of: 3 Yrs. Warranty Period Cost & 2 Yrs. Post Warranty Period Cost (BDS ITB 14.7)
- ❖ Significantly unbalanced or front loaded Pricing & NPV of Recurrent Costs¹⁴

Thank You.

Any Questions?

See next presentation





Member of the Surbana Jurong Group



Procurement of Meter Management System (MMS) for Electricity Company of Ghana Limited (ECG)

Employer: Millennium Development Authority (“MiDA”), Ghana



Content

- 1. Introduction**
- 2. Project Scope**
- 2. Key Project Relationships**
- 3. Phases and Timeframe**
- 4. Technology & Standards**
- 5. Major Technical Criteria**
- 6. System Performance**

Project:

Procurement of Meter Management System (MMS) for Electricity Company of Ghana (ECG)

Employer:

Millennium Development Authority (“MiDA”), Ghana

Implementing Entity:

ECG, Ghana

Consultant:

SMEC International Pty. Ltd.

Procurement Agent (Managing the procurement)

Charles Kendall and Partner (CKP)

Project Goal / Objective

The Compact goal :

- Program is to reduce poverty through economic growth in Ghana.

The objective of “EFOT”:

- Improve the quality and reliability of electricity service delivery by ECG.

The objective of MMS (and Metering Projects):

- The Revenue Collection Rate Improvement,
- Replace legacy meters with STS prepayment,
- Install utility Advanced Metering Infrastructure (AMI) meter,
- Provisioning of state of the art Metering Management System (MMS) ,
- Provisioning of Vending stations

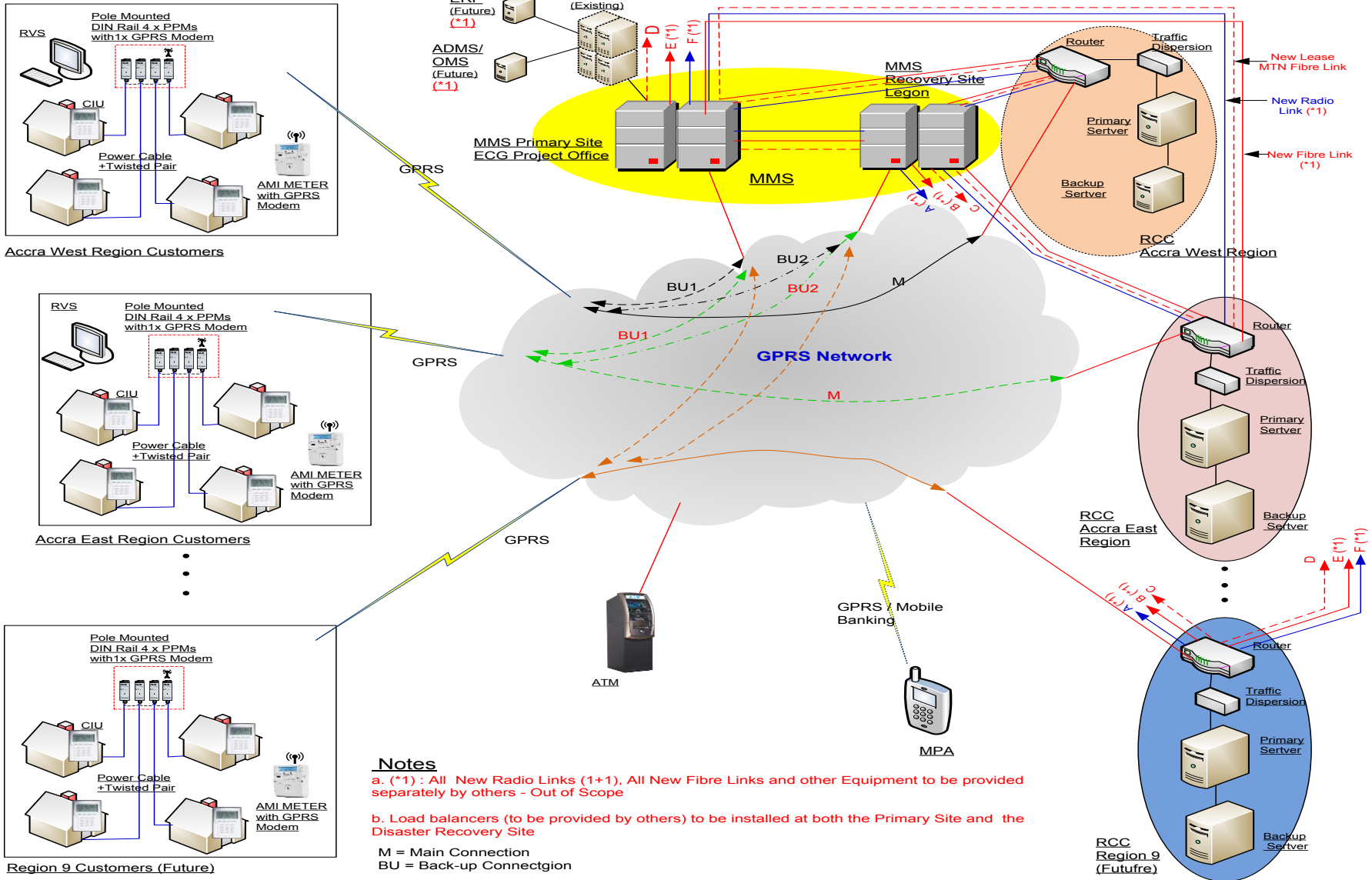
Project scope:

- Supply, delivery, and installation of MMS,
- Configuration and commissioning of MMS

Major Component of scope

- A centralised Meter Management System.
- Two (2) Regional Meter Control Centres (RCCs).
- Forty (40) Vending Stations
- Integration – CMS
- 120 STS PPM based on open protocol system, (Twenty (20) meters each from six (6) different manufacturers).
- 120 AMI meters based on open protocol system (Twenty (20) meters each from six (6) different manufacturers)

Project Scope (System Architecture)



Notes

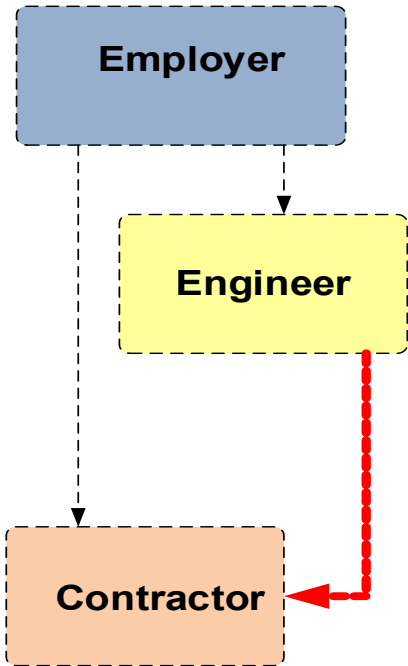
a. (*1) : All New Radio Links (1+1), All New Fibre Links and other Equipment to be provided separately by others - Out of Scope

b. Load balancers (to be provided by others) to be installed at both the Primary Site and the Disaster Recovery Site

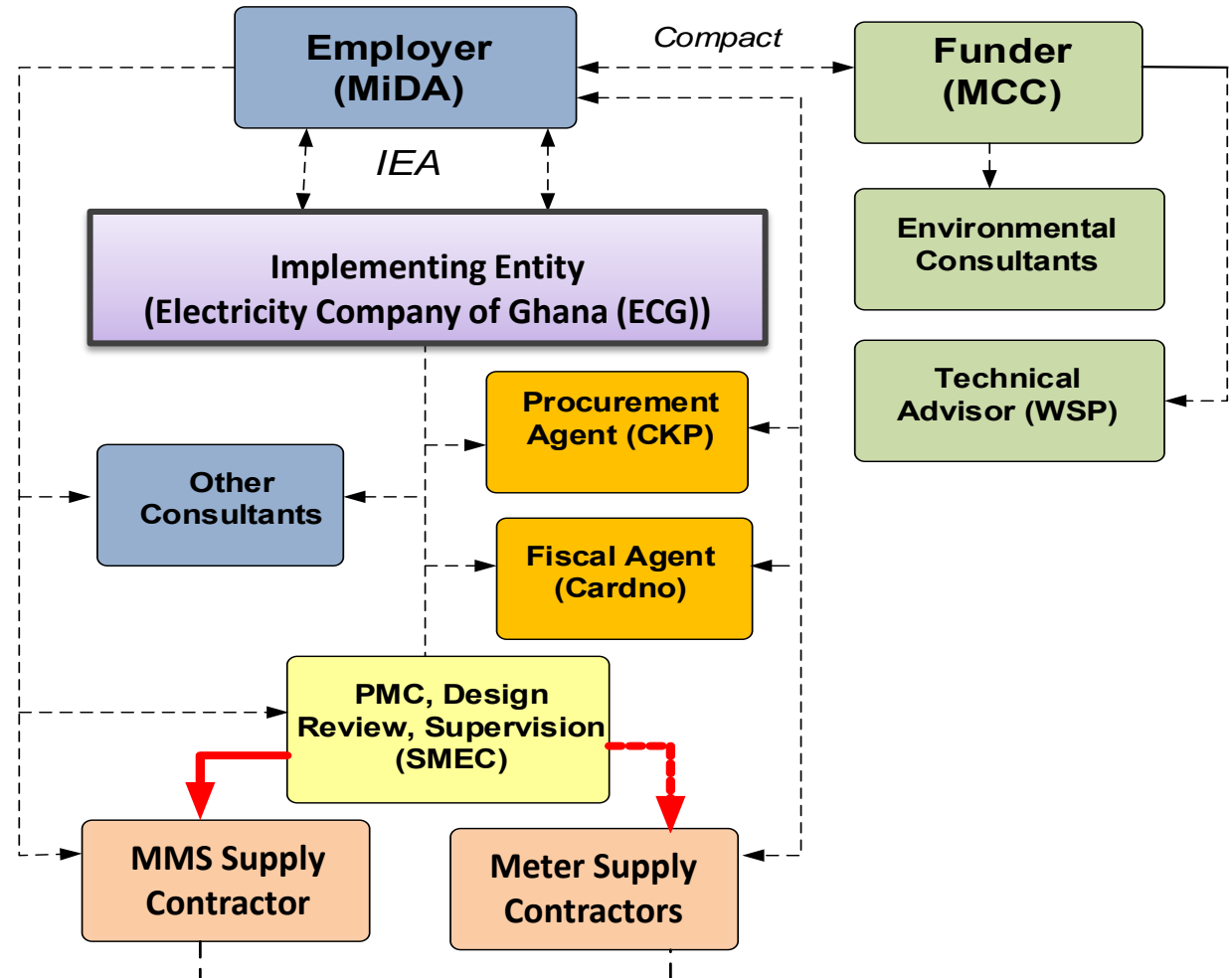
M = Main Connection
BU = Back-up Connection

Project Key Relationships

Classic FIDIC Arrangement

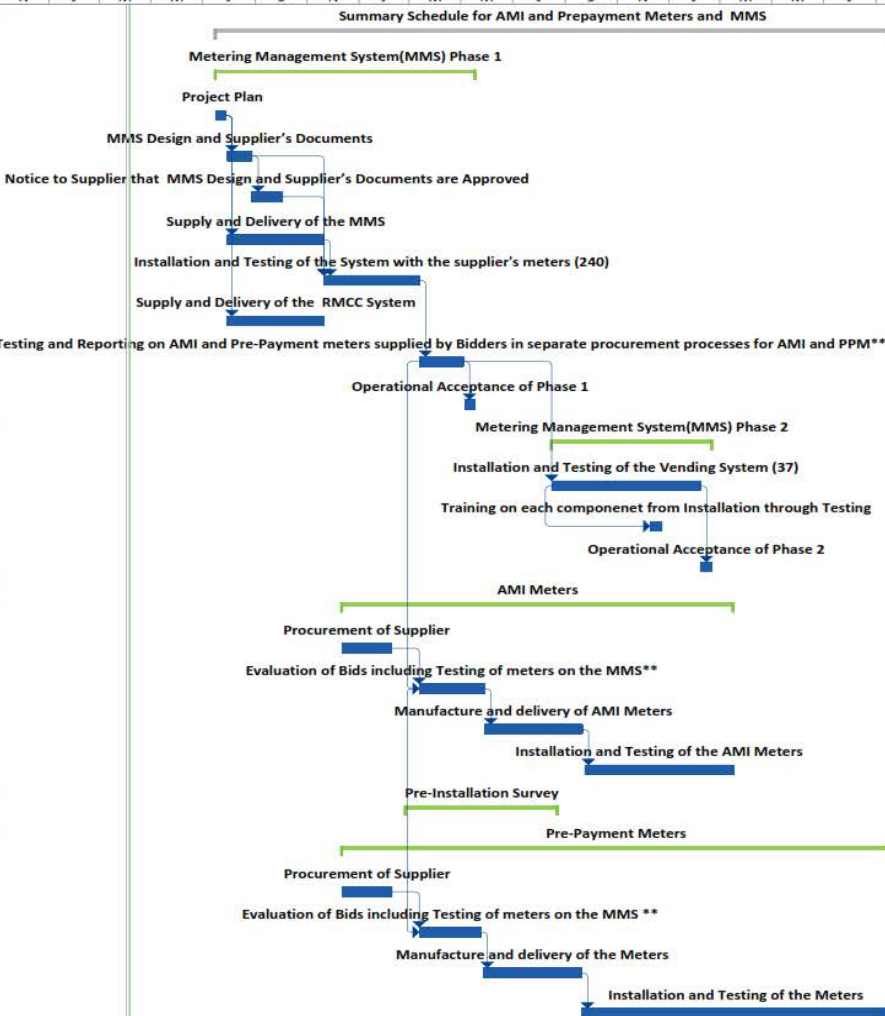
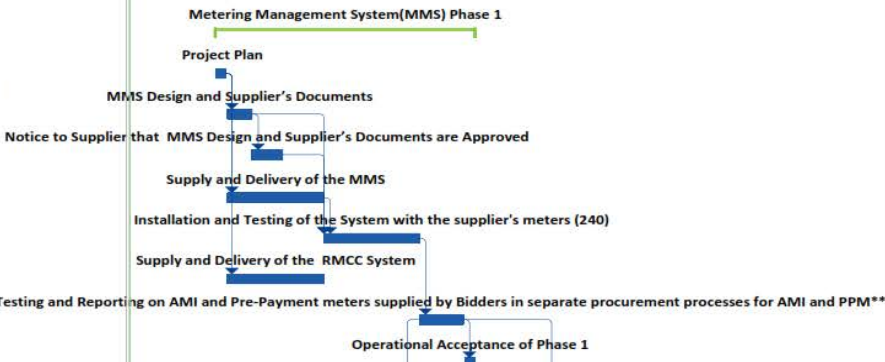
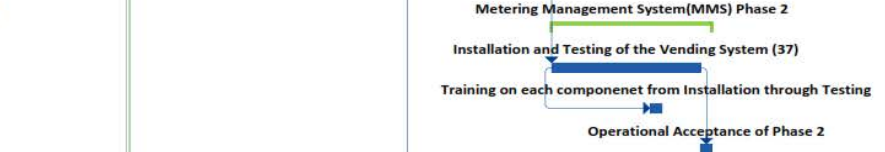
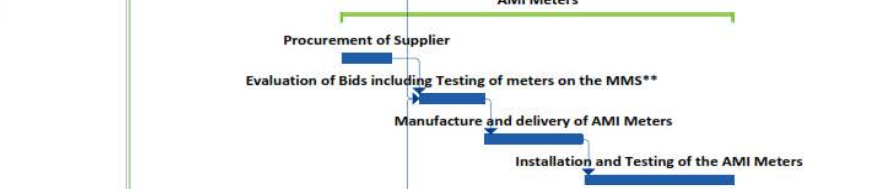

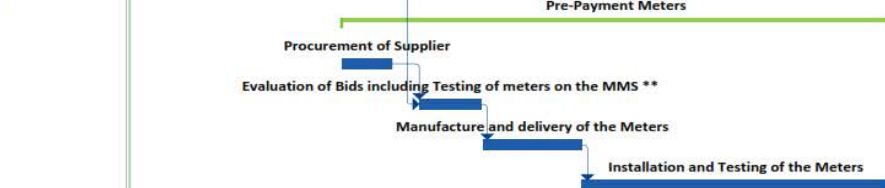


Adapted Arrangement



- = Contractual
- - - = Supervisory
- - - - = Collaborative

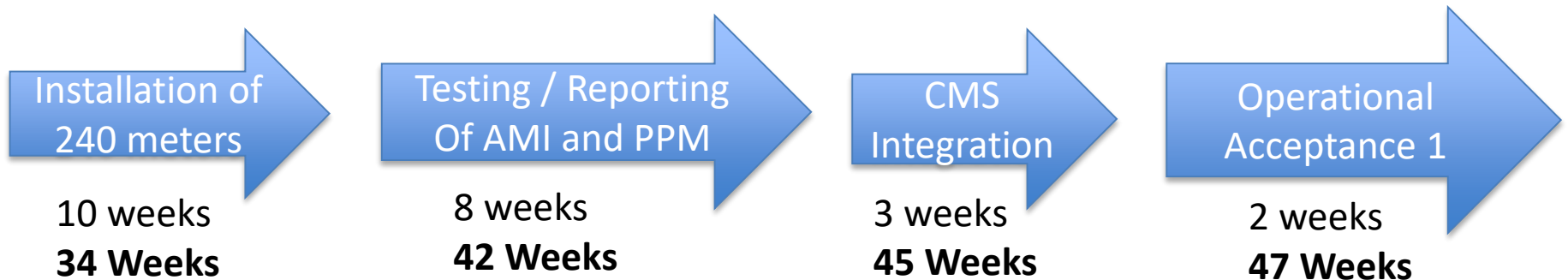
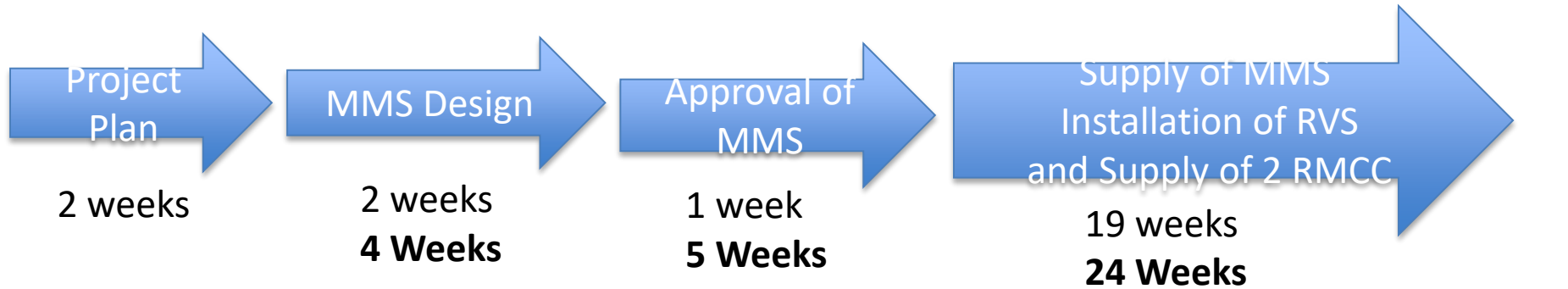
Phases and Timeframe

ID	Task Name	Duration	Start	Finish	2018							2019							2020													
					N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N									
0	Summary Schedule for AMI and Prepayment Meters and MMS	543 days	Mon 7/16/18	Thu 9/17/20																												
1	Metering Management System(MMS) Phase 1	210 days	Mon 7/16/18	Fri 5/17/19																												
2	Project Plan	10 days	Mon 7/16/18	Fri 7/27/18																												
3	MMS Design and Supplier's Documents	20 days	Mon 7/30/18	Mon 8/27/18																												
4	Notice to Supplier that MMS Design and Supplier's Documents are Approved	25 days	Tue 8/28/18	Tue 10/2/18																												
5	Supply and Delivery of the MMS	80 days	Mon 7/30/18	Tue 11/20/18																												
6	Installation and Testing of the System with the supplier's meters (240)	75 days	Wed 11/21/18	Tue 3/12/19																												
7	Supply and Delivery of the RMCC System	80 days	Mon 7/30/18	Tue 11/20/18																												
8	Testing and Reporting on AMI and Pre-Payment meters supplied by Bidders in separate procurement processes for AMI and PPM**	35 days	Wed 3/13/19	Fri 5/3/19																												
9	Operational Acceptance of Phase 1	10 days	Mon 5/6/19	Fri 5/17/19																												
10	Metering Management System(MMS) Phase 2	130 days	Fri 8/16/19	Thu 2/20/20																												
11	Installation and Testing of the Vending System (37)	120 days	Fri 8/16/19	Thu 2/6/20																												
12	Training on each component from Installation through Testing	10 days	Tue 12/10/19	Mon 12/23/19																												
13	Operational Acceptance of Phase 2	10 days	Fri 2/7/20	Thu 2/20/20																												
14	AMI Meters	312 days	Wed 12/12/18	Mon 3/16/20																												
15	Procurement of Supplier	39 days	Wed 12/12/18	Thu 2/7/19																												
16	Evaluation of Bids including Testing of meters on the MMS**	51 days	Wed 3/13/19	Tue 5/28/19																												
17	Manufacture and delivery of AMI Meters	80 days	Wed 5/29/19	Fri 9/20/19																												
18	Installation and Testing of the AMI Meters	120 days	Tue 9/24/19	Mon 3/16/20																												
19	Pre-Installation Survey	121 days	Mon 2/25/19	Thu 8/22/19																												
22	Pre-Payment Meters	439 days	Wed 12/12/18	Thu 9/17/20																												
23	Procurement of Supplier	40 days	Wed 12/12/18	Fri 2/8/19																												
24	Evaluation of Bids including Testing of meters on the MMS**	50 days	Wed 3/13/19	Fri 5/24/19																												
25	Manufacture and delivery of the Meters	80 days	Tue 5/28/19	Thu 9/19/19																												
26	Installation and Testing of the Meters	248 days	Fri 9/20/19	Thu 9/17/20																												

Note: (1) AMI Meters: Only Completed AMI Meters within the period provided per this schedule shall be eligible for testing by the MMS Provider
 (2) Prepayment Meters: Supply by prospective bidders will be tested on the MMS

Phases and Timeframe

MMS 1



MMS 2



PHASE 1:-

- Supply, delivery, installation of MMS
- Configuration and commissioning of MMS
- A Centralised Meter Management System
- Two (2) Regional Meter Control Centres (RCCs)
- Three (3) Vending Stations
- Integration - CMS;
- 120 STS prepayment meters based on open protocol system, (Twenty (20) meters each from six (6) different manufacturers).
- 120 AMI meters based on open protocol system (Twenty (20) meters each from six (6) different manufacturers)

Phase 2:-

Supply, delivery, installation and commissioning of:

- 37 Vending Stations

For standards, refer to section VII of IFB.

Database Type

- Relational SQL type database.
- Database management system to be able to operate on any platform

Operating System (OS)

- Windows Server 2012 or Linux.
- The database must be certified to run on chosen platform
- OS to provide user-friendly Graphical User Interface (GUI).

Remote Vending Station

The RVS to use thin client GUI technology

- Selection of MMS Supplier
 - Compliance to applicable standard
 - Proven System
 - Demonstrating experience in providing similar system

- Selection of RVS Supplier
 - Compliance to applicable standard
 - Proven System
 - Demonstrating experience in providing similar system

- The System must guarantee the following efficiencies:
 - System high availability - 99.95%
 - Low recovering time (4 hours maximum after catastrophic failure.)
- Reliable & fast communication (GPRS/ Fibre – **6 x 5Mb/s**)

High Reliability of data transfer:

- Probability of wrong message lower than 10^{-6} ;

High System response speed:

- 97% success rate within 5 minutes.
- 99.5% within 30 minutes.

High success rate of metered reading:

- 98% success rate for one daily reading of meter registers, meter status
- 98% success rate for complete daily meter reading, load profile.
- 98% success rate for complete reading of monthly accounting data from all meters



Member of the Surbana Jurong Group

