

**A.] Construction and installation of subtransmission line in Mactan.**

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date
2010	1.) Construction of 69 KV overhead line from S/S # 2 to Ibo for new 30 MVA Substation located in Mactan. (Phase 1)	SL69-001	This project will be connected to a spare feeder going south of GIS Mactan which is owned by Transco.. The route of the 69 kv subtransmission line will start from Pusok then to Airport, to Ibo, then passes thru an underground installation, and then to Mactan which covers the length of 7.7 km.	Feb 2010 up to Dec. 2010
2010	2.) Construction of 69 KV overhead line from Ibo to Mactan for new 30 MVA Substation (phase 2)	SL69-002		
2010	3.) Construction of 69 KV overhead line from GIS in Pusok to Substation # 2 (phase 3)	SL69-004		
2010	4.) Construction of 69 KV underground line in Ibo in front Airport Runway.	SL69-003		

PROJECT CLASSIFICATION					
Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures
SL69-001	Growth	First Priority	Load growth	This project will ease up the load of Substation # 4 and cater the future load on this area wherein most of our future load will exist like the Ocean Town of Mactan, Benedicto Hotel, Robinson Sons and Discovery Bay of Pta. Engano. This 69 kv subtransmission line will supply the new substation # 5 which is located in Mactan.	6,460,862.13
SL69-002	Growth	First Priority	Load growth		7,109,199.71
SL69-004	Growth	First Priority	Load growth		19,680,850.00
SL69-003	Growth	First Priority	Load growth		33,250,911.85
Total					66,501,823.70

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Reason for ranking the commissioning date.
SL69-001	Substation # 4 located in CLIP will be overload and future load could not be accommodated. Manual Load Dropping will be implemented which is bad to the consumers affected and will result to MECO a bad service due to poor planning.	This will result to an efficient loading of two substation namely Substation # 4 and Substation # 5 of Mactan.	The future load will commence on the second or earlier on the third quarter of the regulatory year of 2011
SL69-002			
SL69-004			
SL69-003			

MECO PBR "C" justification 1

**B.] Construction of Feeder 5a and 4A**

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date
2008	1.) From Basak Cagudoy to Agus and Agus to BXT (Fdr. # 5 A)	F5A	The present loading of Fdr #5 is 8.32 MW. By the end of 2008, it will escalate to 9.97 MW. To cater such growth in demand, a new feeder is to be construct. This new high voltage distribution network called Fdr. # 5A will be connected to S/S # 4 in CLIP and traverse from Basak Cagudoy, to Agus, to Datag Maribago, to Buyong then Soong.	Aug. 2008
2011	2.) From Mactan Ocean Town to Benedicto Hotel in Pta. Engano (Fdr.# 4 A)	F4A	The present loading of Fdr # 4 is 7.40 MW. By the end of 2008, it will escalate to 8.67 MW. To cater such growth in demand, a new Fdr # 4A is to be construct. This Fdr. # 4A will start from Mactan then to Punta Engano and will be connected to S/S # 5 of Mactan.	April 2011

PROJECT CLASSIFICATION					
Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures
F5A	Growth	First Priority	Load growth	This is to accommodate the future load of Gaisano Grand Mall, BXT hotel and to reduce the lenth of Fdr. # 3.	1,583,507.41
F4A	Growth	First Priority	Load growth	The load of Shangri-la and Hilton and some residential customer will be 8 MW. Once Benedicto Hotel will operate Fdr. # 4 will be overloaded. This is also to cope up the load of Discovery Bay..	2,191,204.41
Total					3,774,711.82

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Reason for ranking the commissioning date.
F5A	Fdr. # 3 with a 15,000 customers has the greatest number of customer among feeders and once an outage will occur a lot of customer affected and this will result to a bad service. The feeder will be overloaded when BXT will operate.	SAIDI and SAIFI will improved due shorter length of feeders # 3 and # 5A.	BXT Hotel will commence operation by 4th quarter of this year, 2008
F4A	Reliability of power supply of Fdr. # 4 is low and negative impact on distribution network.	SAIDI and SAIFI will improved due shorter length of feeders # 4 and # 4A.	Feeders should be ahead of sechedules before S/S # 5 will be energized.

MECO PBR "C" justification 1

C.] Uprating of high voltage distribution network on the following areas. ( Backbone (BB), main transmission line)

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date
2008	1.) From Pta. Rizal near Caltex to corner Ompad near Julies Bakeshop	BB-001	The size of existing line is #2/0 and it is sagging. The line is very near to the building it needs to be relocated.	Sept. 2008
2008	2.) From Shangri-la to Benedicto Hotel in Pta. Engano.	BB-002	Mostly of the wooden poles are leaning and the existing assorted wire sizes of # 4 and # 2 needs to be upgraded in order to cope up additional load in the future.	June 2008
2009	3.) From Benedicto Hotel to Discovery Bay in Pta. Engano.	BB-003	Mostly of the wooden poles are leaning and the existing assorted wire sizes of # 4 and # 2 needs to be upgraded in order to cope up additional load in the future.	April 2009
2009	4.) From BXT to Mactan	BB-004	Mostly of the wooden poles are leaning and the existing wire sizes of # 1/0 needs to be upgraded in order to cope up additional load in the future.	July 2009
2010	5.) From Baradero to 1st corner Canjulao	BB-005	Mostly of the wooden poles are leaning and the existing wire sizes of # 1/0 needs to be upgraded in order to cope up additional load in the future.	Oct. 2010
2010	6.) From Kalolo to Babag Bridge	BB-006	Existing wooden poles were leaning and the primary line is overloaded.	Nov. 2010
2011	7.) From Dap-dap to Vistamar, Seascape	BB-007	The concrete poles were satisfactory in strength but the primary wires needs to be upgraded for future load.	May 2011
2012	8.) From Gun-ob Ceres to Merjjen.	BB-008	The construction of the pole line hardwares of the wooden poles are sub-standard and wires were undersize base on the present load.	March 2012
2012	9.) From Merjjen to 1st St. Canjulao.	BB-009	The primary line sags beyond standard and wooden poles were leaning and dilapidated.	May 2012

MECO PBR "C" justification 1

Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures
------	--------------	------	----------------	-----------------	--------------

BB-001	Growth	Second Priority	Network growth non-	The existing primary lines are backbone or main high voltage distribution network and needs to be upgraded in order to cater the future load on the concerned respective areas.	211,973.32
BB-002	Growth	First Priority	Load growth	The existing primary lines are backbone or main high voltage distribution network and needs to be upgraded in order to cater the future load on the concerned respective areas.	1,003,759.10
BB-003					2,125,611.19
BB-004					3,493,912.17
BB-005					1,043,757.50
BB-006					1,732,150.40
BB-007					702,971.69
BB-008					527,151.72
BB-009					960,413.80
Total					11,801,700.88

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Reason for ranking the commissioning date.
BB-001	The transmission line will eventually be overloaded. The efficiency and reliability of the said line will decrease and will result to poor performance.	Efficient and reliable transmission line.	The schedule is based on the forecasted load that will come in.
BB-002			
BB-003			
BB-004			
BB-005			
BB-006			
BB-007			
BB-008			
BB-009			

**D.J Construction of tie line from Fdr. # 2 to Fdr. # 7. (Tie-line,TL)**

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date
2008	1.) Load transfer from Fdr. # 2 to Fdr.# 7	TL-001	The construction of high voltage distribution tie-line starts from Pajo to Punta Rizal, to Ompad and Dimataga near Shell Depot.	Oct. 2008
2012	2.) Construction of primary distribution tie up line for Fdr. # 2 and Fdr. # 7 in Maximo Patalinhug Ave.	TL-002	The construction of high voltage distribution tie-line covers the length of 463 meters of Maximo Patalinhug Ave.	July 2012

MECO PBR "C" justification 1

PROJECT CLASSIFICATION					
Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures

TL-001	Growth	Second Priority	Network growth non-	This is to allow flexibility of high voltage distribution network to get connected either to S/S # 3 or to Transco Load End S/S in case any eventual failure of either substation. This project also uprate the existing line and ease up the loading of S/S # 3 in Basak..	1,032,183.85
TL-002	Growth	Second Priority	Network growth non-	This is to allow flexibility of high voltage distribution network to get connected either to S/S # 3 or to Transco Load End S/S in case any eventual failure of either substation and cater the future load of Maximo Patalinghug Ave. for there is no existing high voltage distribution network on that area.	457,381.73
Total					1,489,565.58

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Reason for ranking the commissioning date.
TL-001	The loading of S/S # 3 is not efficient so with Transco Load End S/S which has the load of 48%.	Loading of Transco Load End substation will be 76% by the time load of Fdr. # 2 will be transferred.	To achieve efficient and reliable high voltage distribution network and loading of substation.
TL-002	Customers will suffer longer duration of outage if power transformer of Transco Load End S/S bogged down.	The SAIDI of this feeder will improve.	This forecasted schedule was made based on the future load and the loading of the Transco Load End Substation

MECO PBR "C" justification 1

**E.] Upgrading of areas with low voltage problem ( Low Voltage-LV)**

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date

2008	1.) Line upgrading and extension in Ibabao corner Pilipog.	LV-001	The area covered for this project starts from after Pilipog Bridge then to near corner of Pilipog and the size of secondary line is # 4 ACSR.	Dec. 2008
2008	2.) Extension of low voltage distribution network in Purok Saging, Ampalaya Village.	LV-002	The best way to improve the voltage on this area to a nominal value is to extend the lines.	Nov. 2008
2008	3.) Extension and upgrading of low voltage distribution network Sitio Bato, Soong (Urban Poor)	LV-003	The number of customer in this area increase rapidly due to low cost housing of Urban Poor Groups.	Oct. 2008
2008	4.) Extension of high and low voltage distribution line in Purok Tambis, Canjulao.	LV-004	The existing lines shows overloading due to burnt insulation.	Nov. 2008
2009	5.) Upgrading of low voltage distribution line in Basak, Cagudoy back Vistabella.	LV-005	The existing secondary line is #4 ACSR and overloaded.	July 2009
2009	6.) Extension of low voltage distribution line in Bankal, Ticgahon.	LV-006	The best way to improve the voltage on this area to a nominal value is to extend the lines.	July 2009
2009	7.) Upgrading of low voltage distribution line in Ampalaya Village, Gun-ob.	LV-007	The existing secondary line is #4 ACSR and needs replacement or uprating.	Aug. 2009
2009	8.) Extension of low voltage distribution line in Purok Caimito, Canjulao.	LV-008	The best way to improve the voltage on this area to a nominal value is to extend the lines.	Aug. 2009
2009	9.) Extension of low voltage distribution line in Sitio Tumoy, Alegria, Cordova.	LV-009	The best way to improve the voltage on this area to a nominal value is to extend the lines.	Sept. 2009
2009	10.) Extension and upgrading of low voltage distribution network in Matumbo.	LV-010	The number of customer in this area increase rapidly due to low cost housing of Urban Poor Groups.	Oct. 2009
2009	11.) Upgrading of low voltage distribution line in Locatha..	LV-011	The existing secondary line is #4 ACSR and overloaded.	Nov. 2009
2010	12.) Extension of high voltage and upgrading of low voltage distribution line in Villa Rufina of Babag.	LV-012	The primary line will be extended in order the distribution transformer will be located in the center of the load and needs uprating of the secondary line.	Dec. 2010
2010	13.) Extension of low voltage distribution line in Bangbang, Cordova.	LV-013	The number of customer in this area increase rapidly due to low cost housing of Urban Poor Groups.	Dec. 2010
2011	14.) Extension of high and low voltage distribution line in Ibabao, Cordova.	LV-014	Wooden poles are leaning and shows sign of dilapition. The secondary line needs to be upraded.	Oct. 2011
2011	15.) Extension of high and low voltage distribution line in Purok judas Belt, Bababg 2.	LV-015	The primary line will be extended in order the distribution transformer will be located in the center of the load and needs uprating of the secondary line.	Dec 2011
2011	16.) Extension of high voltage distribution line in Basak to Ka Inso.	LV-016	The primary line will be extended in order the distribution transformer will be located in the center of the load.	June 2011
2011	17.) Upgrading of low voltage distribution network in Locatha.	LV-017	The best way to improve the voltage on this area to a nominal value is to extend the lines.	July 2011

MECO PBR "C" justification 1

2011	18.) Upgrading of low voltage distribution network in Ibabao corner Pilipg.	LV-018	The existing secondary line is #4 ACSR and needs replacement or uprating.	Oct. 2011
2011	19.) Extension of low voltage distribution line in Kalubihan, Marigondon.	LV-019	The best way to improve the voltage on this area to a nominal value is to extend the lines.	Dec. 2011
2012	20.) Extension of low voltage distribution line in Purok Calabasa, Carajay Gun-ob.	LV-020	The best way to improve the voltage on this area to a nominal value is to extend the lines.	June 2012
2012	21.) Extension and upgrading of low voltage distribution network in Maurice Compound in Pta Engano.tumbo.	LV-021	The existing secondary line is #4 ACSR and needs replacement or uprating.	July 2012
2012	22.) Upgrading of low voltage distribution line in Pusok, Ibabao.	LV-022	The existing secondary line is #4 ACSR and needs replacement or uprating.	Sept. 2012
2012	23.) Upgrading of low voltage distribution line in Sitio Pasil, Looc Maribago.	LV-023	The existing secondary line is #4 ACSR and needs replacement or uprating.	Oct. 2012
2012	24.) Extension of low voltage distribution line in Mahayahay, Bankal.	LV-024	The best way to improve the voltage on this area to a nominal value is to extend the lines.	Dec. 2012

MECO PBR "C" justification 1

PROJECT CLASSIFICATION					
Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures
LV-001					167,254.39
LV-002					67,225.06

LV-003					271,155.19
LV-004					297,494.97
LV-005					67,482.26
LV-006					67,626.57
LV-007					78,602.02
LV-008					67,193.64
LV-009					39,986.52
LV-010					118,090.97
LV-011					135,760.08
LV-012	Growth	Second Priority	Network growth non-	To improved secondary line voltage to its nominal value of 230 vols	108,155.24
LV-013					108,455.98
LV-014					132,144.15
LV-015					384,844.70
LV-016					66,757.12
LV-017					135,760.08
LV-018					98,987.07
LV-019					67,770.88
LV-020					54,212.28
LV-021					89,519.52
LV-022					45,990.90
LV-023					102,685.92
LV-024					80,360.04
Total					2,853,515.54

MECO PBR "C" justification 1

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Reason for ranking the commissioning date.
LV-001			
LV-002			
LV-003			
LV-004			

LV-005			
LV-006			
LV-007			
LV-008			
LV-009			
LV-010			
LV-011			
LV-012	Customers will complain of low voltage and will cause damages to their appliances.	Mitigate the impact of voltage violation.	The schedule will most likely to happen the low voltage based on the increase of residential cutomers, load and the size of secondary line which is mostly # 4 and # 2 ACSR.
LV-013			
LV-014			
LV-015			
LV-016			
LV-017			
LV-018			
LV-019			
LV-020			
LV-021			
LV-022			
LV-023			
LV-024			

MECO PBR "C" justification 1

**F.] Building Improvements**

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date
2009	MECO Building Improvements	BI-001	finishing on the outside wall on the second floor, dripping rooftop, with small CR, small collectors	Dec. 2009

PROJECT CLASSIFICATION
------------------------

Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures
BI-001	Refurbishment and expansion	Second Priority	Non-network	To accommodate the needs and comfort of the customer by expanding the area, which includes accounting office, warehouse and operations area for smooth operations.	

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Reason for ranking the commissioning date.
BI-001	Customers will be overcrowded during paying their monthly electric bills and limited warehouse area. Performance indicator will result to unsatisfactory.	Customers will feel they are treated like a king.	Every month number of customers are increasing and that project should be done according to schedule.

MECO PBR "C" justification 1

**G.] Uprating of lateral line of high voltage distribution network on the following areas. ( Lateral Line - LL )**

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date
2009	1.) From corner Radar, Babag to Dead End primary line	LL-001		Dec. 2009
2010	2.) From corner Matumbo to corner Airport Villa	LL-002		April 2010
2010	3.) From corner Basak going E/S to corner Janice Minor	LL-003		June 2010
2010	4) From corner Mustang to corner Seawage	LL-004		Aug. 2010

2010	5.) From corner Sewage to curve ARIES Bldg.(Dead End Primary Line)	LL-005
2011	6.) From corner Locathe to 1st St. Canjulao	LL-006
2011	7.) From Canjualo to Phil. Navy Base	LL-007
2011	8.) From 2nd St. Canjulao to Dead-End Primary line	LL-008
2011	9.) From corner Kalalwisan to Dead-End primary line	LL-009
2011	10.) From Aldea Del Sol to Fely Store (Dead-End)	LL-010
2012	11.) From corner Ibabao, Cordova to Dead End primary line	LL-011
2012	12.) From corner Sun-ok to Proper Ibabao, Cordova	LL-012
2012	13.) From corner Carajay Hospital to Dead End primary line	LL-013
2012	14.) From corner Day-as, Cordova to Dead End primary line./	LL-014
2013	15.) From corner Caltex to KMP	LL-015
2013	16.) From corner JY dela Serna to Mangubat to Baradero.	LL-016
2013	17.) From Marigondon crossing to Plantation Bay	LL-017
2013	18.) From corner Bankal Mahayahay to corner Aldea Dels Sol	LL-018
2013	19.) From corner Buaya Saac to corner Fire Crush	LL-019
2013	20.) From coner Suba-Basbas to Elementary School	LL-020
2013	21.) From Sectional Suba-Masulog to Dead End Primary Line near Cebu Tube	LL-021
2013	22.) From corner Buyong to Tambuli Gate	LL-022
2013	23.) From corner Cebu Button to Corner Sta. Monica Homes	LL-023
2013	24.) From corner Kalolo to before Timpolok Elem. School	LL-024
2013	25.) From corner Catarman Cordova to Dead-End Primary Line	LL-025
2013	26.) From corner Alegria Cordova to Dead-End Primary Line	LL-026
2013	27.) From corner Cogon Cemetery to Dead End Primary Line	LL-027

In general description of lateral transmission line, the size of wire mostly on #4 ACSR and # 6 ACSR needs to be uprated and the existing wooden poles are leaning and show signs of dilapidation on the respective areas concerned.

Oct. 2010
June 2011
July 20011
Aug. 2011
Sept. 2011
May 2011
Sept 2012
Oct. 2012
Nov. 2012
Dec. 2012
Feb. 2013
March 2013
March 2013
April 2013
May 2013
June 2013
June 2013
July 2013
Aug. 2013
Aug. 2013
Sept. 2013
Oct. 2013
Oct. 2013

MECO PBR "C" justification 1

2013	28.) From Sectional to Sudtunggan BBC	LL-028	Nov. 2013
2013	29.) From corner Fire Crush to Ludo Main Gate	LL-029	Dec. 2013

PROJECT CLASSIFICATION					
Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures
LL-001					127,141.60
LL-002					562,047.43
LL-003					499,699.88
LL-004					215,876.35
LL-005					396,663.81
LL-006					542,113.69
LL-007					196,674.82
LL-008					135,868.62
LL-009					441,090.24
LL-010					153,442.30
LL-011					287,806.62
LL-012					502,795.60
LL-013					359,748.99
LL-014					207,321.85
LL-015	Growth	Second Priority	Network growth non-	To attain the satisfactory efficiency of transmission line and to address the increasing future load.	489,070.22
LL-016					697,228.64
LL-017					1,466,080.40
LL-018					593,005.60
LL-019					827,308.09
LL-020					409,698.94
LL-021					311,747.44
LL-022					553,490.92
LL-023					380,402.49
LL-024					263,399.39
LL-025					186,005.37
LL-026					236,340.87
LL-027					329,673.14
LL-028					250,273.60
LL-029					287,052.14
Total					11,909,069.05

MECO PBR "C" justification 1

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Reason for ranking the commissioning date.

LL-001			
LL-002			
LL-003			
LL-004			
LL-005			
LL-006			
LL-007			
LL-008			
LL-009			
LL-010			
LL-011			
LL-012			
LL-013			
LL-014	This will result to unreliable and unsafe operation of the transmission line for it will be overloaded.	Reliability and efficiency is attained.	The arrangement of the schedule is based on the inspection of the existing line. The transmission line who had worst situation on leaning and dilapidated wooden poles
LL-015			
LL-016			
LL-017			
LL-018			
LL-019			
LL-020			
LL-021			
LL-022			
LL-023			
LL-024			
LL-025			
LL-026			
LL-027			
LL-028			
LL-029			

MECO PBR "C" justification 1

**I.] Expansion of high and low voltage distribution network on the following areas.** (Expansion Project- EP)

PROJECT DETAILS				
Year	Name	Code	Description	Commissioning Date
2008	1.) Extension of Primary Distribution for Clever Learn in Mactan	EP-001	The area is located in Mactan and no existing transmission line.	March 2008
2008	2.) Extension of primary and secondary line for DECA Homes - Mactan 2 in Bankal.	EP-002	The area is located in Bankal and no existing transmission line.	May 2008

2008	3.) Extension of primary and secondary line for Virginia Zamora in Mactan.	EP-003	The area is located in Mactan and no existing transmission line.	April 2008
2008	4.) Extension of primary and secondary line for Simplex Subdivision in Suba-basbas.	EP-004	The area is located in Suba-basbas and no existing transmission line.	May 2008

PROJECT CLASSIFICATION					
Code	Project Type	Rank	Project Driver	Project Purpose	Expenditures
EP-001	Growth	Second Priority	Load growth	To cater or accommodate new customer	165,256.38
EP-002					443,301.35
EP-003					111,788.46
EP-004					611,446.02
Total					1,331,792.20

PROJECT NEED			
Code	Impact of project if not implemented	Impact of project if implemented.	Remarks
EP-001	New customer wont have power.	Additional revenue.	Finished project
EP-002			
EP-003			
EP-004			

MECO PBR "C" justification 1