ITEM	DESCRIPTION		I	MATI	ERIALS	L	ABOR	EQUIPMENT	TOTAL
330000000000		QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIFIVIEIVI	TOTAL
1	Temporary Facilities				1001000 P - W P				
a	Field Office For the Engineers, 20 Footer Container Van (Rental Basis) 6 -Units	6	pc						
b	portalets minimum of 4 units	4	рс						
С	Living Quarters for the Engineer 2units (Rental Basis)	2	рс						
d	Furnitures/Fixtures, Equipment & Appliances for the Field Office for the Engineer	1	set						
e	10 laptops	10	рс						
f	4 A3 size printer	4							
g	3 copiers		рс						
h	2 scanners		рс						ž .
i	office supplies		set					11	
j	Furnitures/Fixtures, Equipment & Appliances for the Living Quarters for the Engineer		set						
K	Operation and Maintenance of Field Office for the Engineer	1	set			MATERIAL MAT	S		
	Operation and Maintenance of Living Quarters for the Engineer	1	set						

				MAT	RIALS	LA	ABOR		
ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
m	(3units) 4x4 Pick Up Type Service Vehicle for the Engineer on Bare Rental Basis	3	рс						
	Operation and Maintenance of (3units) 4x4 Pick Up Type Service Vehicle for the Engineer		рс						
	Surveying Works		I.s.						
р	Progress Photographs, Reports	1	l.s.						
q	Communication Facility for the Engineer	1	set						
2	Other Requirements								
a	(Mob/Demob, Medical personnel and facilities)								
	Temp. Security Fence (chain link fence with light and signage)	3,197.33	l.m.	=		9	b'		
С	Safety, Construction Signs (including construction safety and health program, PPE's)	20	ea.					н	
	Lighted "X" Signs standee	8	sets						
е	Permits, access pass and licences (including application for temporary power supply and other utilities e.g.								
3	Haulage	141,077	cu.m.						
4	Site Preparation		37735136						
	Subgrade Preparation(lean concrete, aggregate subbase, subgrade)	447,589	sa.m.					2	
b	Sodding	34,400	sq.m.						
		878	2000						
	Demolition Works(Taxiways F1, F2, portion of Alpha and portion of old runway)	85,582	cu.m.						
-	TAXIWAYS		ž						
	Echo Taxiway								
a	Cut(0.20 meter top soil)	28,000	cu.m.	+					
	Total fill	87,515							
_	Total fill	93,017	cu.m.	+					
_	Lean Concrete	7,361		 					

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EM DESCRIPTION —			MATI	ERIALS	LA	ABOR	FOLUDATENT	
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
PCCPavement ,440 mm thick	26,497	cu.m.	C MARKET NAME OF SECURITY				700000 10 10 10	
Rebars 40 mm dia.	1,885	kg			1800-000 CONTROL OF	22 07 22 22 23 23 24 24 25	00 00 00	
PU Sealant	24,415	lm						
Taxiway Shoulder		NAS - 12 - 2002 - 2420						
Lean Concrete	10,237	cu.m.			* ****	900000000000000000000000000000000000000	0 80334W 20013400 1804-00 MATERIA	
Asphalt Shoulder	53,910	sm						
b Taxiway F1					-			
Total Fill	12,966	cu.m.						
Total Cut	2,499	cu.m.						
Lean Concrete	1,046							
PCCPavement ,440 mm thick	5,091					185		
Rebars 40 mm dia.	11,844		-					
PU Sealant	3,457	lm	1			5-51- 10 - 6005 - FE 500 - 1100-		
Taxiway Shoulder	5,457					- 50		
Lean Concrete	1,455	cu.m.						
Asphalt Shoulder	10,129							
c Taxiway F2								
Total Fill	2,268	au m						
Total Cut		cu.m.	***					
Lean Concrete	1,072	cu.m.						
PCCPavement ,440 mm thick Rebars 40 mm dia.	5,091 11,844	cu.m.						
PU Sealant	3,457	kg lm						
Taxiway Shoulder	3,457	im	 					
Lean Concrete	1,490							
Asphalt Shoulder		cu.m. sq.m.						
Asphalt Shoulder	10,129	sq.m.						
d. PCCP Joint Rebars	10 1 020							
12mm x 6.0M rebars	80,600	kg						
e Taxiway Markings	2,819	sq.m.			-			
APRON								
a PCCP, 440 mm thick (7000 psi comp.)	109,667	cu.m.		77.55				
b Rebars 40 mm dia.	304,459		1					
c PU Sealant	96,112	Im			-			
d Lean Concrete	37,385			and the second				
e Sub-Base	53,594							
f Total Fill	83,827							1 1010
g Total Cut		cu.m.						
h Drainage		hec						
Misc.(Earthworks, Shipping, etc.)	23		100 000 000					

	P-2-2-10-10-1	101.251 PARTY 101.251		MAT	ERIALS	LABOR		EQUIPMENT	TOTAL
ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
i	Markings	1,248	sq.m.						
	Fire Protection							00000 W-An	2
	Structure Excavation (Drainage,								
	Culvert and other Structures)	1,377.00	cu.m.			April 190			
	Embankment (from Excavation)		cu.m.						
	Black Iron Steel Pipe 6" Ø schedule								
	40 ASTM A53 & Fittings	459.00	pc.	8					
	4" Fire Hydrant with 4" Elbow and					12	-		
	Complete Accessories	9.00	set						
		7							
	Special Paving Equipments		*						
	8-1-1-								
7	Signages								
T.	Earthwork								
\dashv	Conrete								
\neg	Signages								
\neg	Guidance Signs								-
-	Guidance Signs								
-	Mandatory signs								
	ividiad cory signs								
-	Internally illuminated guidance sign								
	type PVL with:		27-						
	aluminium housing, length: 330 cm	10	nc						-
-	- polycarbonate front panel,	10	рс						
	height: 80 cm								
	series/parallel power adaptor for								10000
	supply 6.6 A fix								
	Led strips		74 1						
	- support columns						****		
+	- breakable couplings					-	-		-
	- breakable couplings								
-	Internally illuminated guidance sign			-					
-1	type PVL with:								
	- aluminium housing, length: 110 cm		рс	+					
	- polycarbonate front panel, height: 80	4	ρc						
- 1					1				
	cm - serie/parallel power adaptor for	***							
	supply 6.6 A fix								-
	Led strips								
-	- support columns			_					
1	- breakable couplings								
_									
	Internally illuminated guidance sign								
1	type PVL with:								L

COST ESTIMATE

and the same	DESCRIPTION		1		MATI	MATERIALS		LABOR		TOTAL
EM	DESCRIPTION	QTY	1	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
	aluminium housing, length: 170 cm	4	рс	31.199200						
	- polycarbonate front panel, height: 80	80 to a								
	cm							1000 NO.	1000	
	- serie/parallel power adaptor for	100								
	supply 6.6 A fix									
	Led strips		1							
	- support columns		1	388 5-11						
	- breakable couplings	50755								
\neg	Internally illuminated guidance sign	14	рс							
	type PVL with:		+							***
	aluminium housing, length: 190 cm		+							
	polycarbonate front panel, height: 60		1				-			
	cm		1							
\dashv	- serie/parallel power adaptor for		1							
	supply 6.6 A fix				N .					9.1
	Led strips		+							
-	- support columns		+							
-	- breakable couplings		+		_					
-	- breakable couplings		+-		***	- 27				
-	Internally illuminated guidance sign		рс						 	
			pc					-		
-	type PVL with: aluminium housing, length: 150 cm		+							
-	polycarbonate front panel, height: 60		-		+				 	
-	cm		+							
	- serie/parallel power adaptor for									
_	supply 6.6 A fix		+ -				-			
_	Led strips		+							
	- support columns		+	_			8			
_	- breakable couplings		-					 	 	
				W. W.					 	
	Internally illuminated guidance sign									
_	type PVL with:			_						
	aluminium housing, length: 230 cm	10	рс							
	polycarbonate front panel, height: 60									
	cm									
	- serie/parallel power adaptor for							1		
	supply 6.6 A fix		1							
	Led strips									
	- support columns	7.0.00								
	- breakable couplings			vice control control						
		955,00000		91/2						
	Internally illuminated guidance sign	70000		PRIMES 151						
	type PVL with:	8	рс							

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COST ESTIMATE

				MAT	ERIALS	LA	ABOR	EQUIPMENT	TOTAL
ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIFIVIEN	TOTAL
1	- aluminium housing, length: 290 cm						33. 37		
	polycarbonate front panel, height: 60								ACO. 1000000000000000000000000000000000000
	cm								
-	- serie/parallel power adaptor for		3000 000	7/12				19	
-	supply 6.6 A fix								
	Led strips								
	- support columns								
1	- breakable couplings								
\neg									
	Internally illuminated guidance sign								
	type PVL with:	5	рс						
	- aluminium housing, length: 70 cm								
_	polycarbonate front panel, height: 60		**************************************						
	cm								
	- serie/parallel power adaptor for		*						
	supply 6.6 A fix								
	Led strips		0						
	- support columns								
	- breakable couplings		-						
\rightarrow	breakable couplings								11 15 15 15 15 15 15 15 15 15 15 15 15 1
-	Internally illuminated guidance sign								
	type PVL with:								
	aluminium housing, length: 90 cm	3	рс						
	- polycarbonate front panel, height: 60		PC						
J.	cm								
	- serie/parallel power adaptor for								
	supply 6.6 A fix								
	Led strips								
- 1	- support columns								
	- breakable couplings	08000000							
			- 1000 -						
	Internally illuminated guidance sign								
	type PVL with:								
	aluminium housing, length: 130 cm	1	рс						
	- polycarbonate front panel, height: 60								
	cm								
	- serie/parallel power adaptor for								
	supply 6.6 A fix								
	Led strips								
	- support columns								
	- breakable couplings		(0.000)						
\neg									100
0	Electrical Works								
	High Mast Lighting at Apron		1000						

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TEM DESCRIPTION -			MATE	RIALS	LA	ABOR	EQUIPMENT	TOTAL
DESCRIPTION -	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPIVIEIVI	TOTAL
Earthworks	2,482	cu.m.		920	1			
Concreting	639	cu.m.						
Electrical Works including posts								
and accessories								
400W LED LUMINAIRES	300	set						
CONCRETE PEDESTALS FOR FEEDER		lot						
STEEL LAMP POST; 25M	24	set						
MANHOLE 1000Lx1000Wx1000mmD	31	set						
MANHOLE 1500Lx1500Wx1000mmD	2	set						
MDP1 (EAST 1 RAMP); MAIN:	1	set						
MDP2 (EAST 2 RAMP); MAIN:	1	set						
PILLAR FEEDER; MAIN: 4P60AT/225AF	7	set						
14MM² THWN	6,556	lm			app suscess			
5.5MM² THWN	2,957			V-12-12-12-12-12-12-12-12-12-12-12-12-12-				
8MM ² THWN(G)	3,117			100 to 10				
80MM² THWN	341	lm						
38MM² THWN	176	lm						
38MM ² THWN(G)	44	lm						
14MM2 THWN(G)	44	Im						
100mm Ø PVC; 3000mm(L)	972	рс						
MAGNETIC CONTACTOR 3P 600V	24	set		1 N N N N N N N N N N N N N N N N N N N				
CONSUMABLES	1	lots						
Fiber optic single mode 12 core 2	2	km						
Fiber optic patch panel 12 port	2	lots				100 march 100 ma		
Software	1	lots						
b Taxiway lights			 			110		
Earthworks	9,844	cu.m.						
Concreting	683	cu.m.						
Taxiway Lights including accessories								
taxiway edge medium intensity								
omidirectional elevated light type	157	sets						
deep base mounted								
led type 20W	330230							
ETL certified								
long life led	and a state of the			1 11 11 11 11				
				2000 marks 162 h 2000 moore 44			10000 - 10 0000000	
Constant current regulator	4 (4)							
15KVA/6.6A	2	sets		2	-			
air cooled and controlled by							two-to-	
microproccessor with:								

гем	DESCRIPTION			MAT	ERIALS	L	LABOR		TOTAL
EWI	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
	* modular concept including								
	a low voltage compartment with			0. 7000		Annocator is no income			
	- the power module with the								
	thyristors		41000000		100 - 100 - 100		mention sections are made and an area		
\neg	- the control module with								
	monitoring functions								
\exists	a high voltage compartment with:								
\neg	- the output transformer								
	- the measurement transformers								
	and lightning arresters								
\dashv	* brightness selector in 1 to 8 steps								
\forall	* status information display on the								
- -	front panel								
+	* input voltage single phase 240V - 60								
-	Hz - 2 wires								
\dashv	* analogic remote control by cable				*				
	multiwire - 48 VDC								
+	* dual digital remote control by RS485							*****	
	signal								
+	Signal .		 						
	* earth fault detection circuit type EFD								
\forall	* plug-in high voltage cut out to	Andrew Married and Administration		-					
	isolate								
+	the serie circuit from the regulator				-				
	output		1						
+	* set of 2 pivot and 2 fixed wheels								
+	Set of 2 pivot and 2 linea wheels	- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12							
+									
	Constant current regulator 5KVA/6.6A		1 sets						
	air cooled and controlled by		1 3003						
	microproccessor with:		5				7,		
	* modular concept including								
+	a low voltage compartment with			_					-
+	- the power module with the								
1.	thyristors								
+	- the control module with					-			
	monitoring functions								
+	a high voltage compartment with:	***							
+	- the output transformer								
+	- the output transformer - the measurement transformers								
	and lightning arresters								
+	* brightness selector in 1 to 8 steps * status information display on the								
	front panel								

PROJECT = CONSTRUCTION OF THE HORIZONTAL INFRASTRACTURE PROJECT
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EM	DESCRIPTION			MATI	ERIALS	LA	ABOR	EQUIPMENT	TOTAL
141	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPIVIEIVI	TOTAL
	input voltage single phase 240V - 60								
	z - 2 wires								
	analogic remote control by cable								
n	nultiwire - 48 VDC	1000					0000		
*	dual digital remote control by RS485								
si	gnal								
*	earth fault detection circuit type EFD						=		
	plug-in high voltage cut out to								
	olate								
	the serie circuit from the regulator								
- 1									
	utput								
+	set of 2 pivot and 2 fixed wheels		- A	ļ	N				
C	onstant current regulator	222022		-				Y	
	0KVA/6.6A	2	sets			100			
	ir cooled and controlled by		1 5005						
	nicroproccessor with:								
	modular concept including	10 C (10 C)						<u> </u>	
	a low voltage compartment with	12/2/1							
	- the power module with the	×1/4		 		×			
	nyristors								
	- the control module with	- Tanada			1000			1 1	
	nonitoring functions								
	a high voltage compartment with:								
	- the output transformer								
	- the measurement transformers			-					
	nd lightning arresters			-					
	brightness selector in 1 to 8 steps	-0.000							
	status information display on the					ps.			
	ont panel								
	input voltage single phase 240V - 60				g				
	z - 2 wires								
	analogic remote control by cable jultiwire - 48 VDC		1			· ·			
	dual digital remote control by RS485	35.20		 					5 T T T T T T T T T T T T T T T T T T T
	gnal								
*	earth fault detection circuit type EFD								
*	plug-in high voltage cut out to								
	the serie circuit from the regulator								
	set of 2 pivot and 2 fixed wheels								

M DESCRIPTION	100			ERIALS	Name of the last o	ABOR	EQUIPMENT	TOTAL
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
Isolation Transformers								
25W, 6.6A/6.6A, 5KV	117	pcs_						
45W, 6.6A/6.6A, 5KV	157							
65W, 6.6A/6.6A, 5KV		pcs						
100W, 6.6A/6.6A, 5KV		pcs						
150W, 6.6A/6.6A, 5KV		pcs			100,000			
200W, 6.6A/6.6A, 5KV	4	pcs			3			
Spares						ACCOUNTS OF SELECTION AND SELE		
65W, 6.6A/6.6A, 5KV		pcs		85000		(a - V 5-0000 - 1000 feV		
100W, 6.6A/6.6A, 5KV		pcs						
150W, 6.6A/6.6A, 5KV		pcs						
200W, 6.6A/6.6A, 5KV	5	pcs						
		Lange - Sometimes are a specie					200	
Wires and Cables						- HILLINGSON		90 NA NA 100 MARKATA MARKATANA
200mm ² THHN/THWN	50	m			100 mm			
50mm² THHN/THWN	100	m						
38mm² THHN/THWN	100	m						
8.0mm² THHN/THWN	50							
30mm² TW	50							
22mm² TW	100	m						
8.0mm² TW	150							
4mm² Green/Yellow	8,100						*	
6mm² Green/Yellow	500	m						
2.5mm² Green/Yellow	500				***			

Panelboard	1	sets						
Main - 3P, 350AT/400AF, 240V 60hz								, ,
35KAIC								
Branches : 2-2P, 100AT/100AF, 240V,								
35KAIC								
1-2P, 50AT/100AF, 240V,								
35KAIC								
2-2P, 125AT/150AF, 240V,								
35KAIC								
SSICALC					***			
Control System	1							
Control System			1					
ALCMS	1	sets					<u> </u>	
Software		sets		90000				
Joitwale	1	3613		78-307				
22 inch HMI workstation Touchscreen	3	sets						
Fiber optic 12 core		km						

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COST ESTIMATE

			MAT	ERIALS	L.F	ABOR	EQUIPMENT	TOTAL
M DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPIVIENT	TOTAL
Fiber optic patch panel	2	sets						
8" high pressure injection shallow								
base	150	sets						
- central hole for cables - diam 100								
mm								
- set of fixing screws								
- earthing connection	15 1							
Certite pourable grout for sealing base								
in pavement	50	bag						
Color: black for asphalt (Sealant Grout						**		
for shallow base)								
Utilisation T°: 25°C to 35°C and more				0				
Supplied in box of 22.5 Kg			U AND THE RESERVE OF THE PERSON OF THE PERSO					
Deep base	157	sets						
- hole for cables - diam 100 mm							14-	
- set of fixing screws								
- earthing connection								
Primary Cable								
1x6mm², stranded copper conductor,								
XLPE 5KV	50	km						
FAA L-824C								
		***		10.2.20	13. 18.			
Secondary Cable					100 - 100 E -			
2x4mm² TITANEX	10	km						
Grounding System	35 765							
Counterpoise cable 22mm² bare								
copper soft drawn	9,640	lm						44 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 - 1875 -
Earth rod 15mmdia. X 1.5m Cu 250um	120	pcs .		8 01 - 10 - 10 - 10 - 10 - 10 - 10 - 10	g			
brass conical coupling	60	pcs						
driving stud		pcs						
steel conical spike	60							
brass clamp 22mm² cable to rod	60	pcs						
Mold for T connection Cu 22mm ²								
Welding metal (exothermic)	300	pcs						
Handle clamp	5	pcs						
Tool kit	2	sets						14 - 0 - 4600000
Cable lug tinned copper	300							

Bill of Quantities Page 11 of 13

	DESCRIPTION			MAT	ERIALS	LA	ABOR	EQUIPMENT	TOTAL
TEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
1	Grounding bar 20mm x 4mm								
	30connections	150	pcs			25-36			
		150 150							
	solator red 25mm for grounding bar	300	pcs	120 300					
	Insulated copper wire for earthing								
	22mm² (7 strands)	5,000	m						
_	Earth pit	60	pcs				-	****	
-	2-pole male plug for 2 core secondary								
- 1	cable	400			= 12				
	Ext. diam.: 11.5/18 mm Section: 4/6	400	pcs						
	mm² - 8/10 AWG					1	1		
	2-pole female plug for 2 core								
		252	1000						
- 1	secondary cable	350	pcs						
	Ext. diam.: 11.5/18 mm Section: 4/6								
	mm² - 8/10 AWG								
	Primary connector kit for screened								
	cable:	400	pcs						
	- external diam, 10 to 14,5 mm,								
	conductor section AWG 8 or 6 mm2	cable							
4									
	Miscellaneous Items								
	1 inch dia. PVC pipes sch.40	36,130							
	2 inch dia. PVC pipes sch.40	8,100			2 79				
	PVC solvent	100							
	inch dia. PVC coupling	300			1000				
	2 inch dia. PVC coupling	200							-
	G.I #10 wire	300							
	Hacksaw blade with handle		pcs						
	12mm dia. Rope	6,000							
	Gasoline	100							9
	2 inch dia. 90 deg. PVC elbow	300							
	Hacksaw blade	100							
	Rubber Tape	300							
1	Electrical Tape	300	pcs						
	Faxiway Drainage								
	Drainage	23	ha			270			
			*******				W. J. 1882		
1	Runway Converted to Taxiway		5-15- #6 						
1	Taxiway Golf)								
	Repair cracks (Epoxy grout)	10,624	gals						
	Structural Sealant	8,456							200 70 000000
	4" Asphalt Overlay	56,556							

ITEM	DESCRIPTION	QTY	UNIT	MATERIALS		LABOR		501110145117	WO
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	EQUIPMENT	TOTAL
	Rebars 40 mm dia.	8,960	kg						
	PU Sealant	2,904	lm	**************************************			0		
	Lean Concrete	677	cu.m.						
	Runway Shoulder		102-114-12-						
	Lean Concrete	941	cu.m.						
	Asphalt shoulder	52,636	sq.m.						
13	Taxiway F3								
	Total Fill	-	cu.m.						
	Total Cut	9,872	cu.m.			1			
	Lean concrete	1,549	cu.m.						
	PCCPavement 0,440M	5,722	cu.m.						
	Rebars 40 mm dia.	12,753	kg						
	PU sealant	3,923	lm		7				
	Taxiway Shoulder				3				
	Lean Concrete	2,218	cu.m.						
	Asphalt Shoulder	10,699	sq.m.						
	Taxiway Markings		The second second						

A. TOTAL DIRECT COST

B. OCM (8% of A)

C. PROFIT (8% of A)

D. TOTAL PROJECT COST (Php)